



SHA/MAV/0535



SHARP

androidtv

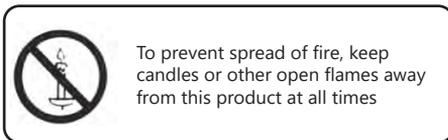


Operating Instructions

Android TV Operation Manual

EQ Series

Important Safety Instructions



Please read these instructions. All of the safety and operating instructions should be read before the appliance is operated.

~ - Alternating current

☐ - 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.

Warnings

- Television sets with 40" screens or larger must be lifted and carried by at least 2 people.
- This television does not contain any parts that are serviceable by the user. In the event of a fault, contact the manufacturer or authorised service department.
- Exposing the internal parts of the TV may endanger your life. The manufacturer's guarantee does not extend to faults caused by repairs carried out by unauthorised third parties.
- Do not use the TV set immediately after unpacking. Wait until the TV warms up to room temperature before using it.
- To reduce the risk of fire, electric shock or damage to the TV, do not expose it to dust, rain or moisture. Never expose the TV to dripping or splashing and do not place objects filled with liquids on or near the TV.
- Do not connect any external devices (DVD player, games console etc.) when the TV is switched on. Disconnect both the TV and device from the mains before connecting. Only switch appliances on when the connection process is complete.
- Do not place the television in a confined space and do not obstruct the ventilation openings at the rear of the television.
- When installing on a wall, ensure the TV is at least 5cm from the wall for ventilation.
- Always ensure that the TV's ventilation openings are not covered with items such as newspapers, table-cloths, curtains, etc.
- Dispose of this television and any components including batteries in an environmentally friendly manner. If in doubt, please contact your local authority for details of recycling.
- Ensure this TV is used in moderate climates only.
- In cases of electrostatic discharge (ESD) the TV may operate incorrectly. If this happens, turn the set off at the mains and then turn back on again after 30 seconds. The set should now work normally.
- TV operating Conditions:
 - Temperature from +10°C to + 35°C
 - Humidity no more than 80% (at a temperature of 25°C)

WARNING: Never place a television set on an unstable surface. The TV set may fall causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Use cabinets or stands recommended by the manufacturer of the television set.
- Only use furniture that can safely support the television set.
- Ensure the television set is not overhanging the edge of the supporting furniture.
 - Do not place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
 - Do not place the television set on cloth or other materials that may be located between the television set and supporting furniture.
 - For maximum safety while using your set, it is recommended to fit anti-tip straps. These are designed to be attached between the wall/secure surface and the VESA mounts on the television. These are available from major retailers and websites and are an easy and inexpensive way of ensuring that your set stays safely upright.
- Please educate 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.

Safety

- For your safety, this appliance is fitted with a fused 3 pin mains plug. Should the fuse need to be replaced, ensure that any replacement is of the same amperage and approved with the BSI mark.
- Never try and replace the mains plug unless you have adequate qualifications and are legally authorised to do so. In the event that a replacement mains cable is required, contact the manufacturer for a suitable replacement.
- Never use the television if it is damaged in any way.
- Always place the television on a flat level surface avoiding anywhere which may be subject to strong vibration.
- The ideal distance to watch the television is from approximately 2.5-3 times the length of the diagonal measurements of the TV screen away.
- Ensure the television is not placed on top of the power cable as the weight of the television may damage the cable and cause a safety hazard.
- Never place mobile phones, speakers or any other device which may cause magnetic or radio interference, near the television. If interference is apparent, move the device causing the interference away from the television.
- To disconnect the set from the mains, remove the mains plug from the socket.
- Ensure that the mains plug is always easily accessible.
- When handling the set do not grip the LCD screen/glass.
- Do not pull the set when mounted on a bracket. If using a moveable bracket, adjust via the bracket and not the TV set.
- Do not place this set above a heat source.

WARNING: Excessive volume when using earphones and headphones can cause damage to hearing.

Important Safety Instructions



Maintenance

- To clean your TV, wipe with a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth dampened with a weak detergent solution.
- Never use alcohol, paint thinner or benzene to clean this unit.
- Before using a chemically treated cloth, read the instructions that came with the cloth carefully.

CAUTION: If water or other liquid enters the television through the display panel surface, a malfunction may occur.



Packaging

- The safest way to transport your item is in the original box/ packaging - please save your packaging for this.
- You will need the original box/packaging in the event of warranty/service repair or support. We are unable to carry out warranty/service if you are unable to package the item correctly.

Important information regarding use of video games, computers, captions or other fixed image displays

The extended use of fixed image program material can cause a permanent "shadow image" on the LCD/LED panel, also known as "screen burn".

This "shadow image" can appear in the background during normal viewing. This type of irreversible LCD/LED panel deterioration can be limited by observing the following steps:

1. Reduce the brightness/contrast setting to a minimum suitable viewing level.
2. Do not display the fixed image for extended periods of time.
3. Turn the power off when not in use.

Examples of images that are more likely to cause "screen burn" are as follows (this is not an exhaustive list):

- 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.
- Time displays.
- Teletext: Do not view a static page for a long period of time
- TV/DVD menus: e.g. listings of DVD disc content.
- Pause mode: Do not leave the TV in pause mode for long periods of time, e.g. when watching DVDs or videos.

Important: Once 'shadow image/screen burn' occurs, it will never disappear and is not repairable under warranty.

How do I dispose of this product?

UK: Waste electrical products should not be disposed of with household waste. Please dispose of the product at a designated collection point for recycling of WEEE. For your nearest facilities, please see www.recycle-more.co.uk or ask store for details.

ROI: Waste electrical products should not be disposed of with household waste. Separate disposal facilities exist. Check with your local authority or retailer for recycling advice.

Batteries

- CAUTION: Risk of explosion if the battery is replaced with an incorrect type.
- Do not expose batteries to high temperatures, excessive heat, prolonged sunshine or fire as this may cause leakage, explosion or ignition.
- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way.
- Certain regions may regulate the disposal of batteries. Please consult your local authority.



CE Statement:

Hereby, Sharp Consumer Electronics Poland sp. z o.o. declares that this LED TV is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU.

The full text of the EU declaration of conformity is available by following the link:

www.sharpconsumer.eu

and then entering download section of your model and choosing "CE Statements".

This equipment may be operated in all EU countries.

The 5 GHz WLAN (Wi-Fi) function of this equipment may only be operated indoors.

Wi-Fi max transmitter power:
 100 mW at 2.412 GHz - 2.472 GHz;
 100 mW at 5.150 GHz - 5.350 GHz;
 100 mW at 5.470 GHz - 5.725 GHz

Bluetooth max transmitter power: 10 mW at 2.402 GHz - 2.480 GHz

TRADEMARKS



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androidtv

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CONTENTS

Guarantee Information	3	Apps	49
Safety Instructions	4-5	Device Preferences	49-50
Trademarks	6	About TV	51
Securing to a wall	7	Date & Time	52
<u>GETTING STARTED</u>	<u>8-24</u>	Timer	52
Introduction	8	Language	53
Set Functionality	8	Keyboard	54
Connecting External Device - Wired & non wired	9-15	Inputs	54
Connecting Headphones - Wired & non wired	15	Power	55
Playing Content stored on a USB Device	16	Storage	56
Inputting Text	17	Home Screen	56
Remote Control	18	Store Mode	57
First Time Installation	19-23	Google Assistant	57
<u>ANDROID FUNCTIONALITY</u>	<u>24-34</u>	Chromecast Built in	57
Viewing Internet Media	24	Screensaver	58
Safe Apps and Video Streaming	24	Energy Saver	58
The Google Assistant	25-26	Location	58
Home Page	27-29	Usage & Diagnostics	58
Installing Apps	30	Accessibility	59
Memory Device	31	Reset	59
Play Next	32	Remotes & Accessories	60
Channels	33	<u>DIGITAL TV & FREEVIEW PLAY</u>	<u>61-68</u>
Discover	34	Tuning in Digital Channels	61
<u>USING THE TV</u>	<u>35-60</u>	Terrestrial	61
Television Menu	35	Cable	61
Source	36	Satellite	61
Picture Menu	36-40	Using Freeview Play	62
Sound Menu	40-42	Channel Guide	62
Power Menu	42	Back EPG	63
CI Card	43	Quick Buttons	63-64
Advanced Options	43	Freeview Play Button	65
Settings	44-60	Freeview Play App	66
Network & Internet	44	Channel List	67
Connecting to a Network	45	Information Bar	68
Channel	46	<u>UPDATING SOFTWARE</u>	<u>68</u>
Tuning in your TV	46	<u>SPECIFICATIONS</u>	<u>69-74</u>
Parental Controls	47	Video Formats	69-70
Accounts & Sign-in	48	Audio Formats	71-73
Sign in via Android Phone	48	Image Formats	74
Sign in Manually	48	<u>TROUBLESHOOTING GUIDE</u>	<u>75-79</u>
Manage your account	48		

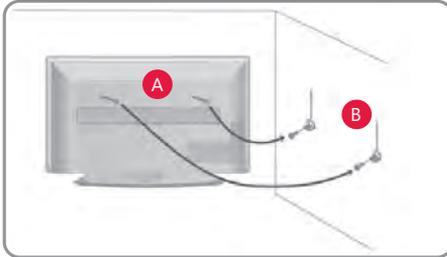
SECURING THE TV TO A WALL

Securing the TV to a wall with anti-tip straps

For maximum safety in the home, when using a TV with its stand, anti-tip straps should be fitted. These are available from major retailers & websites and are an easy, inexpensive and effective way of ensuring your TV stays safely upright. Straps are designed to be attached to the rear of the TV and then tethered to the wall or furniture the TV is stood on, these are fitted as follows.

A Using one or both of the top wall-mounting holes and screws fasten one end of the fastening cord/s to the TV. (the screws are already supplied in the wall mounting holes)

B Secure the other end of the fastening cord/s to your wall. (you will need screws/fixings suitable for your wall type - available separately from most DIY stores).

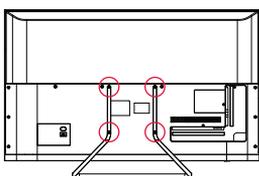


- Note:** Please ensure that children do not climb on the TV set.
- Note:** When handling the set do not grip the LCD Panel.
- Note:** Do not pull the set when mounted on a bracket. If using a moveable bracket, adjust via the bracket and not the set.

The Royal Society for the Prevention of Accidents is urging people to take care with flat-screen televisions. RoSPA stated in 2010 that “Toddlers are particularly at risk of pulling flat-screen televisions on to themselves. They are unsteady on their feet and are attracted by colourful television images.” The risk is increased as televisions become lighter.

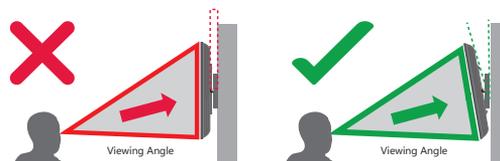
Wall mounting & Viewing Angle

IMPORTANT - Before drilling any holes in the wall ensure you are not drilling where there could be any electrical wires, water or gas pipes.



1. Remove the four screws located at the back of the TV set.
2. The wall mount can now be easily attached to the mounting holes, located on the back of the TV, using the same four screws removed.

Note: This diagram to the left is an example of screw positions. Due to model variations, please ensure you check your TV for the exact location of the wall mounting screw positions.



Important: If wall mounting this TV, only use the screws already provided in the wall mounting holes. Using other screws which are longer could cause irreparable damage to the internal parts. When using a wall bracket, please ensure the screws in the back of the TV set are not over tightened.

INTRODUCTION

Your new Android television set is able to run applications, stream video, connect to various sources and allows you to watch Freeview and benefit from various catch up services. It features all of the usual applications you are used to such as Netflix, Amazon Prime and YouTube in addition to many more apps available in the Google Play Store.

When the set is first powered on, you will be presented with the First Time Installation screens. Follow the on screen instructions for guidance. You can also use the Quick Start Guide supplied for additional guidance. Once completed the set is ready to be used. It is important that the correct language and country is selected during this stage of the set-up process as this will determine the basic functionality of the set.

To make full use of your Android set, you will require an aerial and internet connection.

Use these Operating Instructions for guidance on how to use your Sharp Android television.

Unless otherwise stated, the remote control is used to operate the set, i.e., it will be noted when to use the buttons or control stick on the set itself.

SET FUNCTIONALITY

Your set can be used in several ways. If you wish to use the Android functionality, this can be done via the Home Page. Should you want to watch television, or access the various source inputs, then use the television mode.

Note: The functionality and appearance of the screens and advice shown in the following pages may vary depending upon the version of software installed in your set. It is recommended that your set is kept up to date with the latest version of software applicable to your set to ensure smooth running and continued enjoyment of your Android based product.

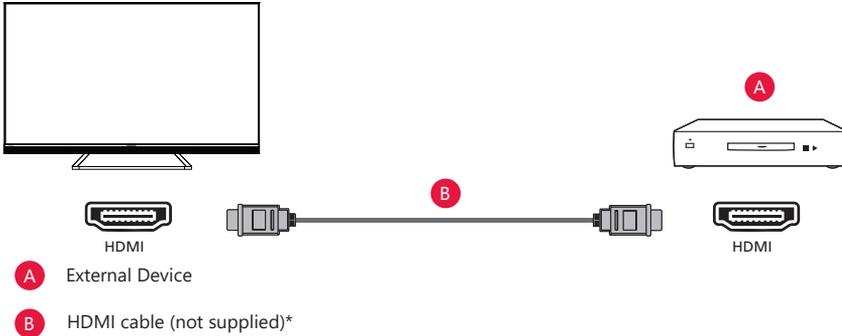
When navigating through the menus, selection will be accompanied by a soft tone coming through the sets speakers, or headphones/sound device if connected.

CONNECTING EXTERNAL DEVICES - WIRED

Before turning your set on, it is recommended that your external devices are connected before continuing with the first-time installation process. Depending on the source connectivity on your television, follow the guidance below when connecting external devices.

HDMI Connection

For optimum picture quality, we recommend connecting your device to the television using an HDMI cable.



*Be sure to use an authorised HIGH-SPEED HDMI cable bearing the HDMI logo.

HDMI CEC-Compatible Devices

If an HDMI CEC-compatible device (e.g., Blu-ray player, AV receiver) is connected with an HDMI cable, you can operate the device with the television's remote control. We recommend using the HDMI (ARC) connection when used with an AV receiver – please refer to the ARC section of this Operation Manual.

Adjusting HDMI CEC Settings

1. Turn on the connected device.
2. To enable HDMI control, press the **[HOME]** button, then select Settings > Device Preferences > Inputs.
3. Activate HDMI control on the connected device.

Available options

HDMI control	Allow the TV to control HDMI devices.
Device auto power off	If disabled, the connected device does not turn off automatically when the television is turned off.
Television auto power on	If disabled, the television does not turn on automatically when the connected device is turned on.
CEC Device list	Displays the HDMI CEC device list.

Features Available to Compatible CEC Devices

Blu-ray/DVD player

- Automatically turns the television on and switches the input to the connected Blu-ray/DVD player when the Blu-ray/DVD player starts to play.
- Automatically turns the connected Blu-ray/DVD player off when you turn the television off.
- Controls menu operation [**ARROW**] buttons, playback and track selection of the connected Blu-ray/DVD player through the TV's remote control.

AV Receiver

- Automatically turns the connected AV receiver on and switches the sound output from the TV speaker to the audio system when you turn the TV on. This function is only available if you have previously used the AV receiver to output the TV's sound.
- Automatically switches the sound output to the AV receiver by turning the AV receiver on when the TV is turned on.
- Automatically turns the connected AV receiver off when you turn the TV off.
- Adjust the volume and mute functions via the [**VOL +/-**] and [**MUTE**] buttons on your television remote control.

Video Camera

- Automatically turns the TV on and switches the input to the connected video camera when the camera is turned on.
- Automatically turns the connected video camera off when you turn the TV off.
- Controls menu operation [**ARROW**] buttons, playback, e.g. [**PLAY**] button of the connected video camera through the TV's remote control.

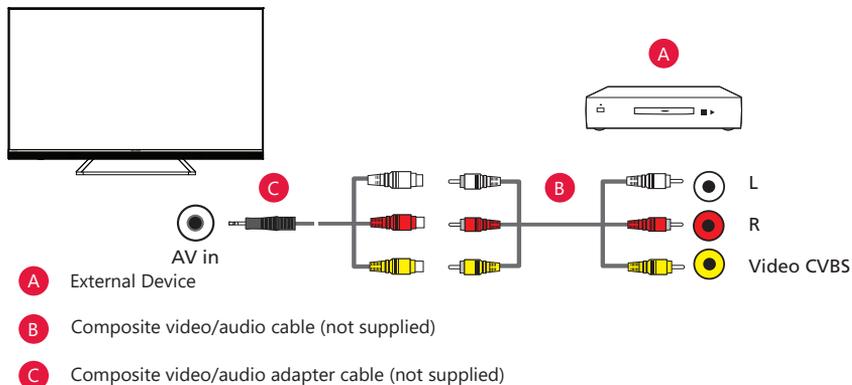
Note: Not all devices with HDMI input/output are HDMI CEC compatible. For information about CEC compatibility, refer to the instruction manual of the device.

Refer to "HDMI connection (ARC supported)" section of this manual for information relating to connecting an HDMI (ARC) enabled device.

Component video Connection

If your external device has component video jacks/sockets, connect them to the television using a mini component video cable and an audio cable.

Mini AV Source



USB Devices (wired)

You can connect wired USB devices such as a mouse and keyboard via the USB sockets on the rear of the set.

Note: We are unable to guarantee connection of a wired USB device. Use of USB hubs is not recommended.

Connecting an External Audio Device

You can connect audio systems such as AV receivers or sound bars to the television. Select a connection method below according to the specifications of the audio system you want to connect.

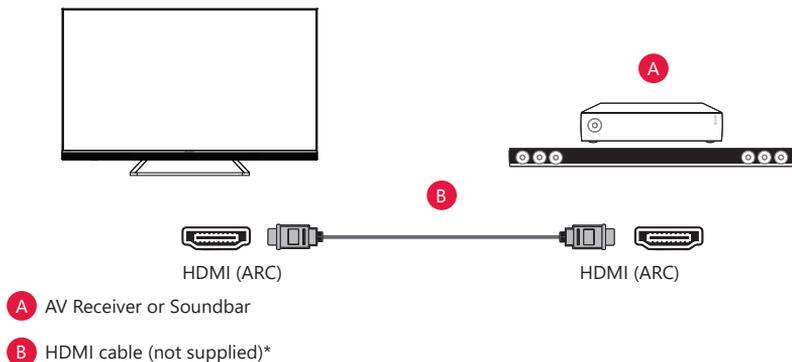
- Connecting with an HDMI cable. for Details, carefully read *HDMI Connection (ARC supported)*.
- Connecting with a digital optical cable.
- Connecting with an audio cable.

Note: Refer to the instruction manual of the device to be connected.

HDMI Connection (ARC Supported)

Connecting the television and audio system with an HDMI cable. This is the recommended method of connecting an external audio device.

Connect to the television's HDMI input terminal bearing the text "ARC".



Note: We recommend authorised Premium High-Speed HDMI Cable(s) bearing the HDMI logo.

Ensure that the connected audio device is HDMI ARC compatible.

The ARC output on your television may vary depending on the model.

HDMI CEC must be enabled on your set for this connection to work. To do this press the **[HOME]** button, then select Settings > Device Preferences > Inputs and then enable the HDMI control option.

Control of volume can be achieved via the television remote control (CEC must be turned on).

When ARC is working, the sound from the television speakers will be muted.

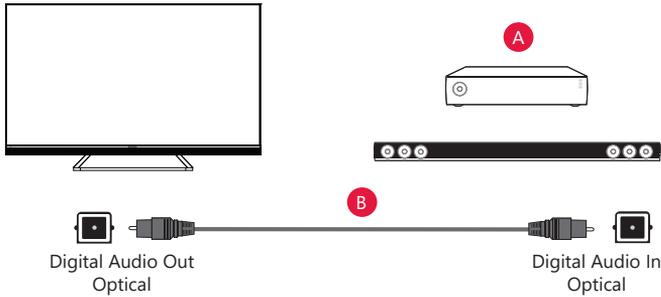
You need to configure the Digital Output settings according to your audio system. Press the **[HOME]** button, then select Settings > Device Preferences > Sound > Digital Output.

If the audio system is not compatible with Dolby Digital or DTS, set Settings > Device Preferences > Sound > Digital Output to PCM.

Digital Audio (Optical)

Connecting your television and audio system with a digital optical cable.

Connect to the audio system digital optical input terminal.



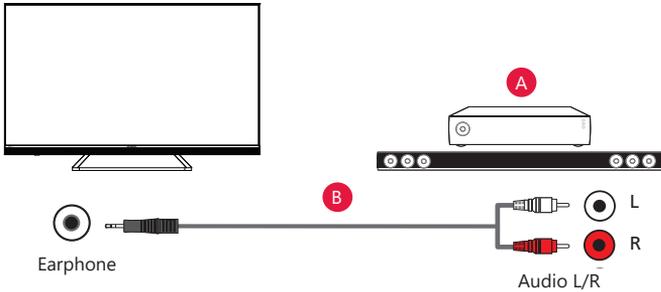
- A** AV Receiver or Soundbar
- B** Audio Optical cable (not supplied)

If there is no output on the digital optical output, ensure that the digital output is set to PCM. To set, go to: Settings > Device Preferences > Sound > Digital Output to PCM.

The digital optical output is always present whatever source is selected.

RCA Analogue Audio Cable

Connect to the audio system's audio input terminal.



- A** AV Receiver or Soundbar
- B** Audio cable (not supplied)*

Note: The output audio level is dependent upon the headphone level. The volume level on the connected audio system must be turned up.

CONNECTING EXTERNAL DEVICES - NON WIRED

It is possible to connect external non-wired devices such as Bluetooth headphones, keyboard, mouse, etc.

Chromecast built-in

Chromecast built-in allows you to wirelessly cast content from your favourite websites and apps to your television, directly from your computer or mobile device.

1. Connect a mobile device such as a smartphone or table to the same home network that the television is connected to
2. Launch a Chromecast supported app on the mobile device.
3. Select the (cast) icon in the app 

The screen of the mobile device is displayed on the television.

Note: An Internet connection is required to use Chromecast built-in. Both your television and device need to be connected to the same network for the casting function to operate.

There are many Chromecast apps available for mobile and other devices.

Bluetooth Devices

The Bluetooth function can be used to pair the television with various devices. You can pair audio output devices such as Bluetooth soundbars, speakers or headphones. Supported input devices are Bluetooth remote controls, gamepads, computer mouse etc.

To pair the television with a Bluetooth device, follow the instructions below:

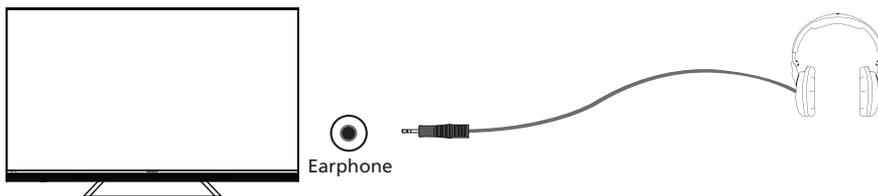
1. Turn the Bluetooth device on and put it in pairing mode.
2. To put your Bluetooth device in pairing mode, refer to the instruction manual of the device.
3. Press the **[HOME]** button, then select Settings > Remotes & Accessories > Add Accessory to put the television in pairing mode
4. A list of available Bluetooth devices will be displayed.
5. Select the desired device from the list, then follow the on-screen instructions.
6. If you are prompted to enter a passcode, refer to the instruction manual of the device.
7. After pairing is completed, your device will be connected to the television.

To unpair your remote control, follow the instructions below:

1. Go to Settings > Remotes & Accessories.
2. Select the remote control to be unpaired and press **[OK]**.
3. Now select "Unpair" and press **[OK]**.
4. Select "OK" and press **[OK]** on the remote control.
5. Your remote control will now unpair from the set.

Connecting Headphones

You can connect wired or Bluetooth headphones to this set.



When *wired headphones* are connected to the 3.5mm jack socket on the rear of the set, the internal speakers will cut out. The volume of the sound which comes from the headphones is controlled via the remote control using the **[VOL+]** and **[VOL-]** buttons.

When a *Bluetooth device* is paired with the set, the internal speakers will cut out. The volume of the sound that comes from the Bluetooth device is adjusted via the remote control using the **[VOL+]** and **[VOL-]** buttons. If headphones are connected to the 3.5mm jack on the rear of the set, the Bluetooth device takes over the sound output, i.e. if both wired and Bluetooth headphones are connected, there will only be sound from the Bluetooth headphones.

Volume bar display

When the volume is changed on your television set, the volume bar will come up at the bottom of the screen. If Bluetooth is being used, the bluetooth icon will be displayed.

When the audio is muted, the volume bar will display the last set volume and also the mute icon.

Note: When using headphones, a warning will appear advising not to use excessive volume for long periods of time as this may damage your hearing.

- Turning up the headphone volume too high may result in distortion.

PLAYING CONTENT STORED ON A USB DEVICE

USB

Connect a USB storage device to the USB port of the television to enjoy photo, music, and video files stored on the device.

Connect the USB device to your television and turn it on.

1. Press the **[HOME]** button, select "Apps" from the Home Page, and select the DigitalMediaPlayer from the app list.
2. If the supplied remote control has an **[APPS]** button, you can press the APPS button to display the app list.
3. Browse the list of folders and files and select the desired file.
4. Press **[OK]** and playback will start.

Note: Depending on the image dimension, file size, and number of files in a folder, some photo images or folders take time to display.

Displaying the contents of the USB device may take some time depending on the content.

While accessing the USB device, do not disconnect power from the television or USB device as the data may be corrupted.

Depending on the file, playback may not be possible, refer to *USB Specifications*.

Some photos and movies may be magnified, resulting in low picture quality. Depending on the size and aspect ratio, images may not be displayed in full screen.

It may take a long time to display a photo, depending on the file or settings.

If DigitalMediaPlayer cannot be found in the favourite's apps, you can add it from the apps listing.

The USB ports on the television support FAT32 and NTFS file systems.

If your digital still camera does not work with your television, try the following:

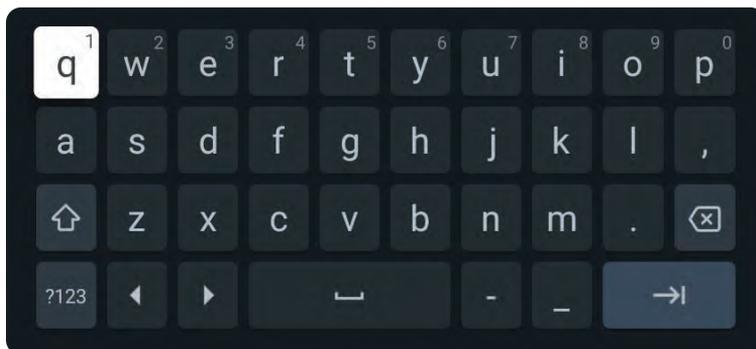
- Set the USB connection settings on your camera to Mass Storage.
- Copy the files from the camera to a USB flash drive, then connect the drive to the television.

INPUTTING TEXT

On -Screen Keyboard

There is a preinstalled on-screen keyboard app in your set which will appear whenever text is expected to be entered by the user, e.g. Wi-Fi password or website address in the web browser. To navigate the on-screen keyboard, use the **[ARROW]** buttons on the remote control, enter the character selected by pressing **[OK]**. The character you select will be highlighted like the "Q" in the image below.

If you press and hold the **[OK]** button for 2 seconds while on a selected symbol, this will display the associated national character(s) with accents or diacritical marks.



Note: When entering the Wi-Fi password this keyboard is extended to show all characters at once.

Using the Remote Control

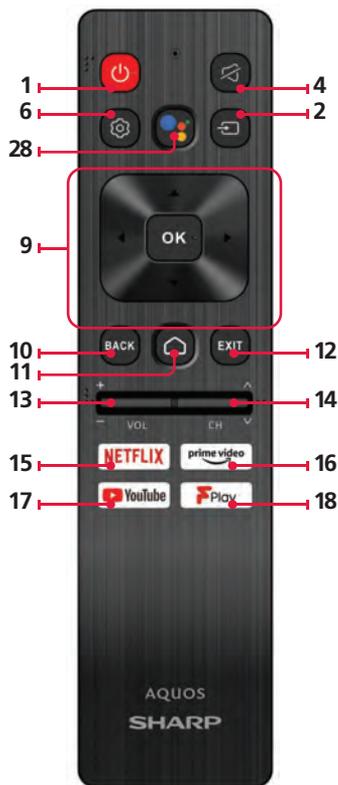
You can operate many of the televisions features by using the **[UP]**, **[DOWN]**, **[LEFT]**, **[RIGHT]** and **[OK]** buttons on the remote control.

The following remote control buttons are used to navigate the menus:

- **[EXIT]**: Exits from the menu and returns to the source or Home Page.
- **[BACK]**: Takes you one step back in the menu.
- **[ARROW BUTTONS]**: Navigate around the options on the screen.
- **[OK]**: Selects the option highlighted or selected.

Your set can also be voice controlled using the Google Assistant.

REMOTE CONTROL



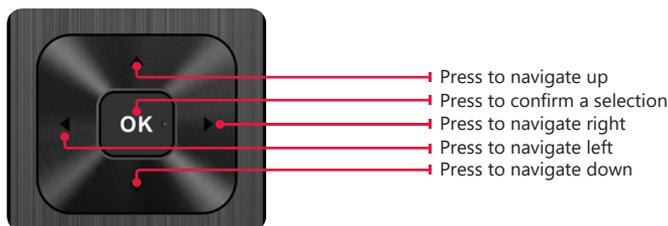
1. **STANDBY** - Switch on the TV when in standby or vice versa.
2. **SOURCE** - To display the input/source menu.
3. **NUMBER BUTTONS** - 0-9 to select a TV channel directly.
4. **MUTE** - Mute the sound or vice versa.
5. **GUIDE** - Opens the 7 day TV guide (Digital TV mode).
6. **MENU** - Displays LIVE TV menu.
7. **APPS** - Opens the menu with installed apps.
8. **INFO** - Press once for programme information.
Press again to view detailed information
9. **▲/▼/◀/▶/OK** - Allows you to navigate the on-screen menus and adjust settings to your preference.
10. **BACK** - Step back in the menu.
11. **HOME** - Displays the TVs Home Menu.
12. **EXIT** - Exits all menus.
13. **VOL (+/-)** - Tilt to increase/decrease the sound level.
14. **CH (+/-)** - Tilt to switch to the next/previous channel in the sequence.
15. **NETFLIX** - Access the YouTube App.
16. **PRIME VIDEO** - Access the Prime Video App.
17. **YOUTUBE** - Access the YouTube App.
18. **FREEVIEW PLAY** - Access the Freeview Play service. Only available in the UK.
19. **AUDIO** - Opens the audio track menu.
20. **SUB** - Turns on/off subtitles at the bottom of the screen.
21. **TEXT** - turns teletext on/off.
22. **TV** - Switches the TV to the last watched input.
23. **⏸** - Play/Pause media.
24. **⏮** - Play in fast rewind mode.
25. **⏭** - Play in fast forward mode.
26. **■** - Stop playback.
27. **COLOUR BUTTONS** - Execute corresponding function at that time.
28. **Google Assistant** - Use your voice to access entertainment, control smart devices, obtain answers on screen, and more.

FIRST TIME INSTALLATION

When the set starts up for the first time, it will do so in the first-time installation mode. This enables you to set up various Android functions, log into your Google account (you will be able to set up a Google account if you do not have one) and for the set to be tuned into digital television if required.

Note: The basic installation steps may vary slightly depending on your model and/or country of use. Due to Android software updates, the look and feel of the television start up procedure and subsequent menus may be subject to change.

To navigate through the options when in the first-time installation mode, use the buttons on your remote control as shown here:



Using the Remote Control

During the set-up process you will be prompted to sign into your Google account via the pre-installed Google app. This set up process will depend upon the model of television being configured. Please ensure that you have your account details to hand. If not, you will be prompted to set up an account. If you do not wish to set up an account, this can be done later.

TV Control Stick

The TV control stick is located on the back of the TV, on the left hand side when looking at the TV. The control stick can be used to control a variety of TV functions. The shape of the TV's control stick may vary by model.



While the TV is in standby mode:

1. Pressing the centre of the control stick once powers on the TV set.

While watching TV:

1. RIGHT/LEFT – volume up/volume down.
2. UP/DOWN – changes channel up/down.
3. Press the centre of the control stick once – displays the menu.
4. Press and hold the centre of the control stick – Standby/Power Off.

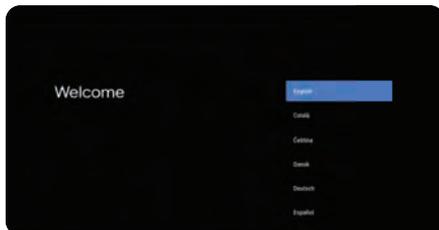
While in menu:

1. RIGHT/LEFT/UP/DOWN – navigation of cursor in on-screen menus.
2. Press the centre of the control stick once – OK/Confirm selected item.
3. Press and hold the centre of the control stick – back to previous menu.

Full First Time Installation

When the set is turned on for the first time it will enter the installation mode as shown here. It is recommended that all steps are completed as shown in the process to ensure correct operation. Use the back button on your remote control to return to the previous screen.

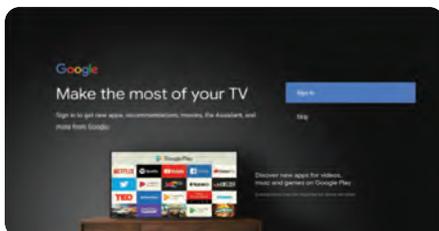
1. When the set first turns on, you will be requested to select your preferred on-screen display language. This will set the language in which the menus and associated information is displayed in. Should you wish to do so, this can be changed later in the Device Preferences menu.



2. Next you will be requested to set up your set with an Android phone. If you do not have an Android phone, proceed to the next step. If chosen, the set will request you to log into your Android phone and connect the set to your network automatically.

3. If your set is not connected via an Ethernet cable, it will request that a Wi-Fi network is selected and logged into. Choose your network and then follow the on-screen display to enter your password. When correctly entered, the set will log into your network and connect to the internet if this is available.

4. Now you can sign in using your Google account. If you do not have a Google account, this can be set up at this stage if required. Should you not want to sign in or create a Google account, then this stage can be skipped.



5. If signing in, there are two options. You can either sign in using a device by choosing "Use your phone or computer", this will bring up further options to follow. If using the remote control to sign in, you will be asked for your Google account name and password; follow the prompts to sign in.

6. Once logged into your Google account you will be asked to confirm that the Terms of Service are accepted. Then asked to accept the following:

7. **Help Improve Android** - When enabled, the set will automatically send diagnostic information to Google.

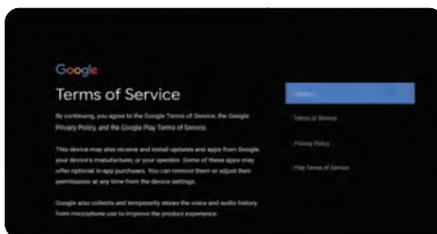
Location: Let Google use your device location to improve your Android device. Some apps may require this to be turned on to perform correctly. This setting can be turned on or off at any time in the Settings menu.

Get Personal Results: Turn this on so that you can use your voice to get your email, calendar, help with payments and more on this device. This can be turned on or off in Assistants settings.

8. After setting up your Google functionality, some of the benefits and advantages of the set are displayed.

9. Enter the country of use for the set. This will determine the functionality of the television, for example Freeview Play in the UK or Saorview in ROI.

10. When this prompt appears, press the **[OK]** button on the remote control to enter a four digit PIN code. You will be asked to confirm the PIN before progressing to the next step. This PIN is used when accessing various functions on the set and during the lock or parental control usage.



Note: When setting the password, you can only set four numbers. The letters on the displayed keyboard are not active.

11. Set up your television to be in Home or Store mode. Home mode is the default setting for normal use. This can be changed later in the Settings menu if necessary.

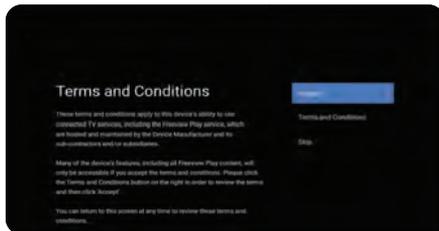
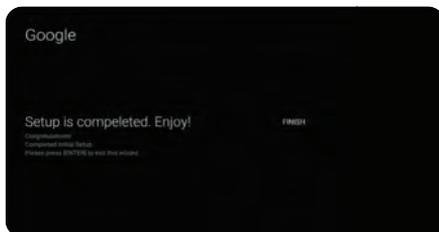
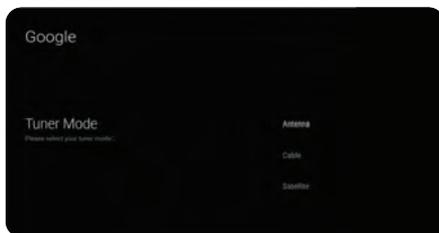
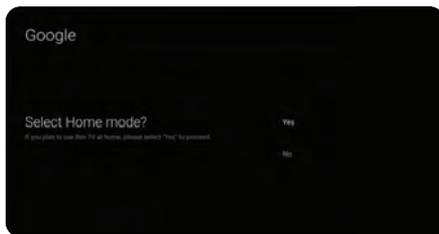
Note: If the store mode is turned on, the set will go into the demonstration mode after a few minutes and display banners advising of the sets specification on the screen.

12. To enable your set to receive television channels, it needs to be tuned into your local transmitter. There are three tuning modes available, for Freeview Play functionality choose Antenna and then the Scan option. While your set is tuning in, the display will advise progress and the number of digital channels received.

13. Tuning of the set is now complete.

Note: After the TV is tuned in, you may be prompted to confirm which region your set is in. This can occur if more than one transmission signal is detected. If you receive this prompt, please press the **[RIGHT ARROW]** on the remote control and confirm the transmission signal you would like the TV to use.

14. Agree to the Freeview Play Terms and Conditions if the set is located in the UK and tuned in



15. Connect your remote control using Bluetooth:
 - Press and hold the [**LEFT ARROW**] and [**HOME**] buttons on the remote control at the same time.
 - The LED indicator on the remote control will start to flash.
 - Select your remote control from the list shown on the television screen and press [**OK**] on the remote control.
 - Once paired, the pairing screen will disappear.

Note: A more detailed instruction for remote pairing can be found on Page 60.



16. You will be greeted by a Freeview Play confirmation screen, when this closes, you are ready to use your Android set. Your set will start at the Android Home Page.



ANDROID FUNCTIONALITY

Your Android set is able to provide many functions and the usage of some of these are shown below.

Viewing internet Media

You can use video streaming services such as YouTube and Netflix to watch content via your internet service. The services available will vary depending on your country and region. You can launch these services by selecting their titles on the Home Page.



Note: An Internet connection is required to watch content. Some streaming services may require an account or subscription.

Enjoying Safe Apps and Video Streaming Services (Security & Restrictions)

You can ensure safe use of the television by setting installation restrictions on apps that are downloaded from unknown sources, or age restrictions on programmes and videos. You can access parental controls by pressing the **[HOME]** button, then select Settings > Apps > Security & restrictions or Settings > Channel > Parental Controls.

If you change the Security & Restrictions settings, your device and personal data are more vulnerable to attack by unknown apps from sources other than Play Store. Any third party apps are downloaded at the risk of the user, any damage to your device or loss of data that may result from using these apps is not covered by the manufacturer.



Note: Other separate restrictions may be available depending on the app. For details, refer to the app's help pages. It is possible to download a large number of applications to the set and as these are not part of the software installed on the television, instructions on their usage will have to be provided by the app producer in most cases.

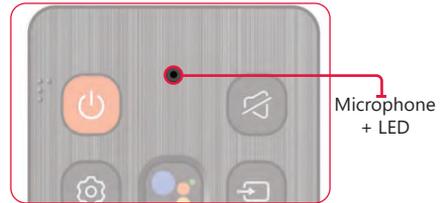
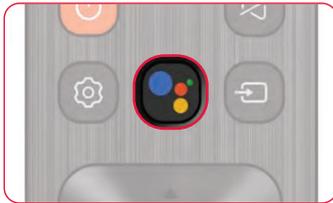
THE GOOGLE ASSISTANT

The Google Assistant allows voice commands to quickly find and play your favourite shows, obtain answers and control your home via connected devices. If you experience issues with third party devices, it is suggested that you contact the provider of the device for support.

Using the Google Assistant with Voice

Remote controls with Google Assistant functionality have a Google Assistant button and a built-in microphone to allow voice communication with the set. To enable Google Assistant, follow the instructions below:

1. Press the  button on your remote control.
2. The light on the remote control will illuminate.
3. Wait for the on-screen message from the Google Assistant, then speak into the microphone.



By speaking into the microphone, you can search for various content or control your connected smart home devices.

Note: Helpful phrases may be displayed on the television screen depending on your model. If you are unable to access the Google Assistant, ensure that the remote control which has the  button is paired to the television.

To do this, press the  button on the remote and follow the on screen instructions.

Ensure that when speaking into the microphone that the microphone is positioned about 15 to 30cm away from your mouth. Do not speak too loudly or softly. Ensure words are spoken clearly.

Using the Google Assistant with the On-Screen Keyboard

Press the **[HOME]** button, then select the  icon from the Home Page and press **[OK]**. The on-screen keyboard will be displayed, you can now enter your question or command by typing this in.

Note: The Google Assistant requires an internet connection. The Google Assistant is not available in certain languages and countries.

The type of remote control supplied with the television, and the availability of a remote control with a built-in microphone varies depending on your model/region/country. An optional remote control is available.

Using the Google Assistant with the On-Screen Keyboard

If during the first-time installation process the remote was not paired or skipped, then follow the process below to pair your remote with the television:

1. Turn the set on.
2. Go to Settings > Remotes and Accessories.
3. Now press and hold the **[LEFT ARROW]** and **[HOME]** buttons on the remote control at the same time.
4. The LED indicator on the remote control will start to flash
5. Select your remote control from the list shown on the television screen and press **[OK]** on the remote control.
6. Once paired, the pairing screen will disappear.



Note: If the  button is pressed on the remote control and it is not paired, the pairing screen will appear.

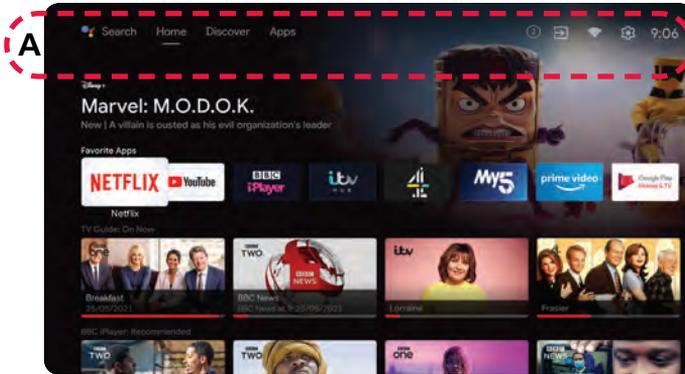
HOME PAGE

To enter the Home Page screen, press the **[HOME]** button on your remote control. From the Home Page, you can search for content and select recommendations, apps, and go into settings.

The Home Page is the default viewing screen for your television and it will appear after the first-time installation process has been completed.

Inputs, Google Assistant, Network, Notifications and Settings

The picture below shows a typical Home Page, here we look at section A as shown inside the dotted line.



The Google Assistant - Use the  button on the remote control or the on-screen keyboard displayed on the television to input keywords and search for various content.



Notifications - Displayed when there are notifications such as when there is a connection issue or software update. The number within the circle indicates the number of notifications.



Network - Configure network and internet. This symbol changes depending on the connection type – Wi-Fi or Ethernet.



Settings - Configure various television related settings.

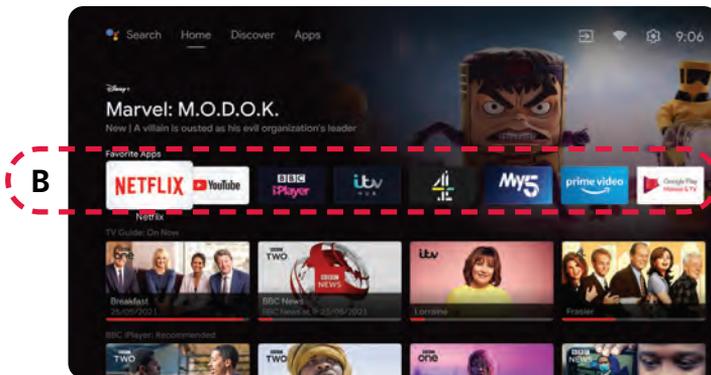
Note: The Google Assistant requires an internet connection.

The Google Assistant is not available in certain languages and countries.

The type of remote control supplied with the television, and the availability of a remote control with a built-in microphone varies depending on your model/region/country. An optional remote control is available.

Apps and Favourite Apps

Apps are programs and functions which expand the functionality and usage of your television. These can include video stream viewers, on demand players, games, health monitors and many more types. These can be added to the set via stores such as the Google Play Store. Apps are shown in section B of the Home Page.



Moving or Removing an App on the Favourite Bar

Follow the instructions below:

1. Select the app you would like to move or remove from the favourites section.
2. Press the **[OK]** button on the remote control for more than two seconds.
3. The menu shown on the right will be displayed.
4. Select the desired function by using the **[UP/DOWN]** buttons on the remote control, then press **[OK]**.
5. If moving the icon, select **[LEFT/RIGHT]** on the remote control until the app icon is in the desired position.



Note: Some apps cannot be removed from the favourites bar as they are fundamental to the operation of the set.

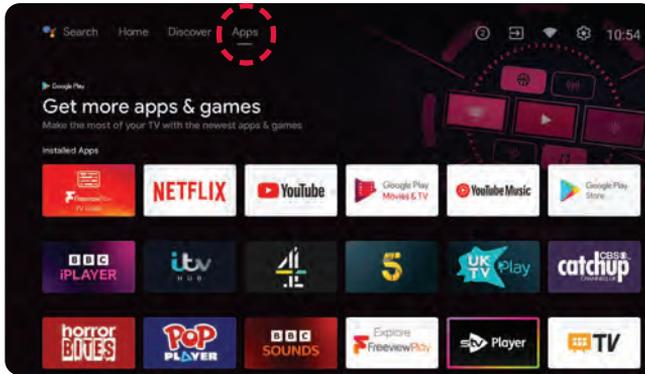
Adding More Apps to the Favourites Bar

To add more apps, use the remote control **[ARROW]** buttons to select the  icon and then press **[OK]**. This will show apps which are available and have been previously downloaded to the set.

You can now select the app which you would like to add to the favourites bar from the ones which now appear on the screen.

Adding More Apps to the Favourites Bar

To enter the App Management screen, select “Apps” from the tabs in the top left of the Home Screen (circled in the image below) and press **[OK]** on the remote control. You will then see a screen similar to the second image.



It is also possible to move, open and uninstall an app from this menu. Follow the instructions below to carry out these functions:

It is possible to open, move, add to favourites, find info and uninstall an app from this menu. Follow the instructions below to carry out these functions:

Select the app you would like to open, move, add to favourites, or uninstall from this section.

Press the **[OK]** button on the remote control for more than two seconds.

A menu shall appear, with the following: Open, Move, Remove from favorites, Info and Uninstall.

Select the desired function by using the **[UP/DOWN]** buttons on the remote control, then press **[OK]**.

Note: If an app has been un-installed, you will have to download it again. Some Apps which are fundamental to the operation of the set cannot be un-installed.

Installing apps from the Google Play Store

You can install apps from the Google Play Store to your television, just like you do with smartphones and tablets. You can only install apps that are compatible with this television. They may differ from the apps shown on smartphones/tablets.



An Internet connection and Google account are required to install apps from the Google Play Store. If you do not have a Google account or wish to create a shared account, this can be achieved during the first time installation or by accessing the following website on any device:

<https://accounts.google.com/signup>

The website above may vary depending on your region/country. It is also subject to change without notice. For details, refer to the Google homepage.

To install an app on your set, press the **[HOME]** button and select Google Play Store from the apps list. If the supplied remote control has an **[APPS]** button, you can press the this to display the apps list. Select an app to install. After downloading, the app is automatically installed and added. Its icon appears in the list of installed apps, allowing you to launch it.

To add an app from the Play Store, select and enter the Play Store from the apps section of the Home Page. When the Play Store opens, you can then select an app to load onto the set from the ones which appear, or search for a desired app.

Note: There are free apps and paid apps in the Google Play Store. To purchase a paid app, a prepaid Google Play gift card code or credit card information is required. You can purchase a Google Play gift card from various retailers.

Free space on internal storage of the television is limited. When storage is full, it will not be possible to install more apps. To check how much free space is available go to:
Settings > Device Preferences > Storage.

If internal storage is full and you wish to install additional apps, you will have to delete some currently installed apps or move apps to USB memory device or SD card. Please refer to the chapter *Moving apps to a USB memory device or SD card*.

Installing apps from the Google Play Store

You can move downloaded apps to a USB memory device or SD card to increase the space available in the television.

Note: When you format a USB memory device/SD card, all data saved in the device will be deleted. Back up your important data before formatting. Performing this procedure formats the USB memory device/SD card for exclusive use with the television. Therefore, you may be unable to use the USB memory device/SD card with a computer, etc.

Some apps cannot be moved to a USB memory device/SD card.

Some apps cannot be moved to a USB memory device as they are fundamental to the operation of the set.

Formatting Memory Device

Insert SD card or USB memory device to the television, then press the **[HOME]** button, select :
Settings > Device Preferences > Storage > the desired USB memory device or SD card. Format the selected memory device as an internal storage device.

Moving an App to Your Memory Device

Press the **[HOME]** button, then select Settings > Apps, then select the app that you want to move to the USB memory device or SD card. Now choose the USB memory device/SD card from the used storage. The app is moved to the USB memory device/SD card.

Hint: Repeat steps above to move additional apps to the USB memory device.

Note: Your Android TV formats the USB memory device/SD card into a proprietary format. When inserting the USB memory device/SD card into a personal computer after adding apps to it, you will not be able to view the contents of the USB memory device/SD card.

To use the USB memory device/SD card on a personal computer, you will need to reformat the devices which will erase any data stored on the USB memory device/SD card.

Removing a USB Memory Device

Press the **[HOME]** button, select Settings > Device Preferences > Storage > the desired USB memory device, then select the option to remove it.

Note: The USB memory device is used only for saving apps. To use the USB memory device for other purposes, you must format it again.

If you delete an app in the USB memory device using a computer, you will be unable to launch it from the television.

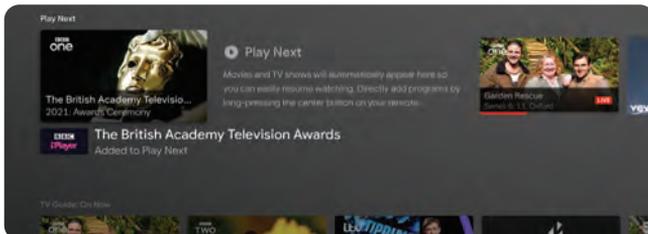
If you remove a USB memory device from the television, you will be unable to use the apps that were moved to the USB memory device.

You cannot specify a USB memory device as the installation location of an app. First install the app on the television as normal, and then move it to the USB memory device.

Depending on the television model, your set will be equipped with either an SD card slot or a Micro SD card slot. Please ensure you use the correct type of SD card, corresponding to the available slot.

Play Next

Play Next functionality is Play Next. This option is only displayed when the Play Next option is active and there is content in the Play Next list.



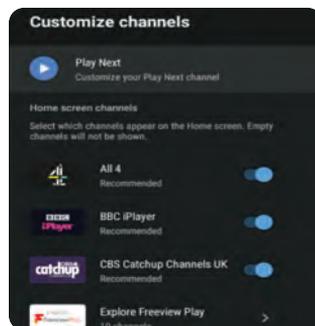
Play Next option can be selected when in a streaming app such as You Tube. To do this:

1. Select the item in the Channels list on the Home Page to be added to the Play Next list.
2. Press and hold the **[OK]** button on the remote control for more than two seconds.
3. The Play Next option appears.
4. Select "Add to Play Next".
5. Stream will now appear in the Play Next list.

Note: Once a stream has been played back, it will disappear from the Play Next list.

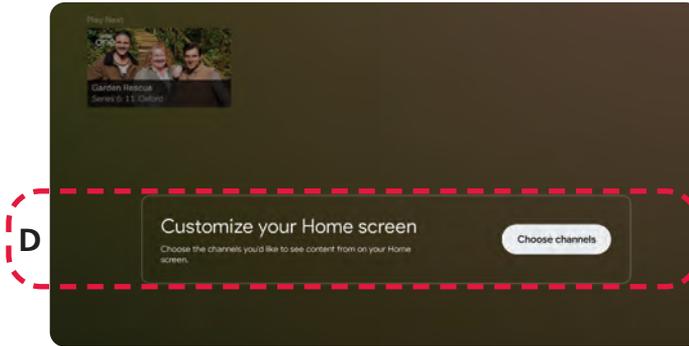
- If there are no streams in the Play Next list, the list will not be seen on the Home Page.

The Play Next option can be turned on and off in the Customize channels option on the Home Page. In addition, the services which can be used on Play Next can also be turned on and off. In the case of the Freeview on demand players it is also possible to restrict channels and genre.



Channels

Channels are services which have been added to your Home Page which enable you to view streaming services, see section D. You can add, remove and modify channels via the "Customise channels" option.



Moving a Channel

It is possible to move a channel up and down in the list, the position of a channel is your preference.

1. Select the channel icon.
2. Press the **[LEFT]** button.
3. Select the move button (fig 1).
4. Press **[OK]**.
5. Use the **[UP/DOWN]** buttons to move to the desired position.
6. Use the **[RIGHT]** button to exit from the operation.



fig 1

Note: The position of some channels cannot be moved.

Deleting a Channel

1. Select the channel icon.
2. Press the **[LEFT]** button.
3. Select the delete button. (fig 2)
4. Press **[OK]**.
5. Channel is removed from the Home Page list.

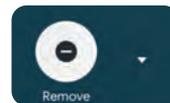
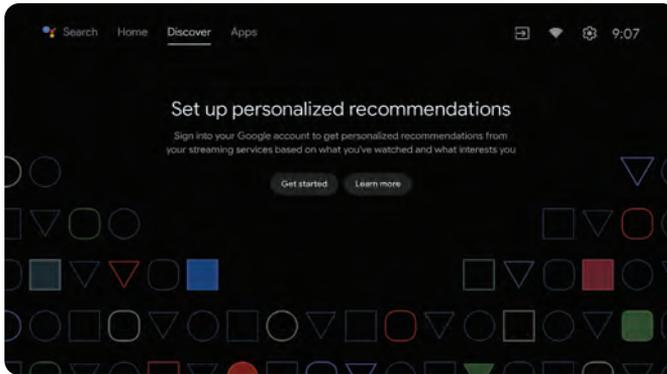


fig 2

Note: Some channels cannot be removed from the channel list.

Discover

Channels are services which have been added to your Home Page which enable you to view streaming services and content within them. You can add, remove and modify channels via the "Customise channels" option. This is found when you scroll to the bottom of the Home Page.



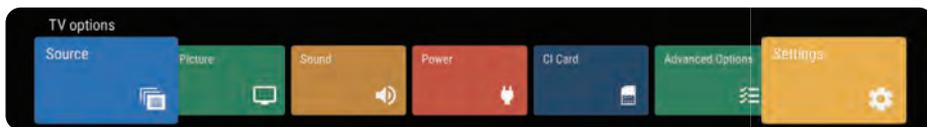
The layout of the Discover tab is similar to the main home page but the overall content is customised to your previous viewing habits. You will see "channels" but these are not as editable as those on the home screen.

They are normally sorted by genre, but as each person's viewing habits can differ dramatically, what you will see on this screen will vary between users.

Note: You are able to sign into multiple Google accounts, enabling individuals to access their personalised recommendations on one TV. Please refer to Page 50 on how to do this.

TELEVISION MENU

You can access the settings menu below whilst watching the set in Television mode. To do so, ensure you are on the Live Television source and press the **[MENU]** button on the remote control.



Options are:

Source	Change the picture (input) on your television.
Picture	Change the picture mode.
Sound	Control the speaker output when used with audio devices.
Power	Control the power settings on your television.
CI Card	Activate and set up a connected Conditional Access Module (not supplied).
Advanced Options	Set up various live TV options.
Settings	Control other televisions settings.

Note: For a more detailed explanation of these options, refer to the sections in the next pages.

When on one of the menu options and the **[UP]** arrow button is pressed on the remote control, a further menu option appears as below.

Add to My Favourites	Add current channel to favourites.
Program Guide	Shortcut to the program guide.
New Channels Available	This will appear if new channels are available.



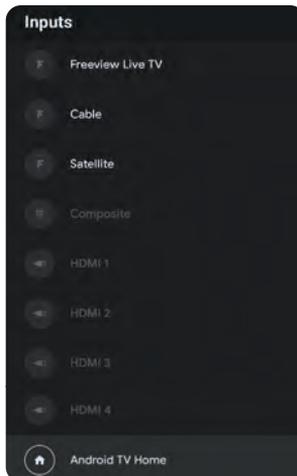
Note: The Programme Guide will only appear if the set is tuned into a digital television signal which supports a program guide function.

Source



You can select your desired source from this menu. It is also possible to do this by pressing the **[SOURCE]** button on the remote control. The number and type of inputs will depend upon the model and specifications of your set. Scroll to the source you desire and press **[OK]** on the Remote Control.

Note: You can go directly to the DTV source (if tuned in), by pressing the numbered buttons on the remote control, i.e. pressing the number **[1]** will switch the set to channel 1. Alternatively, you can press the **[TV]** button.



Picture



To enter the Picture Menu, press the **[MENU]** button and select TV. Then press the **[MENU]** button and select Picture using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.

The menu items are summarised below. Detailed descriptions in the next section, "Picture, explained" explain options for menu items with the *.

Picture Mode* This menu provides options to modify picture quality.

Dolby Vision Notification Shows a notification if Dolby Vision content is detected.

Auto Brightness The TV measures ambient lighting in the room to automatically adjust the screen brightness.

Backlight Controls the strength of the LED Backlight.

Brightness Changes the brightness of the picture.

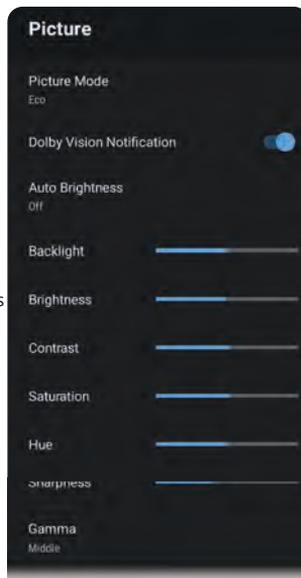
Contrast Changes the range between the brightest and darkest parts of the picture.

Saturation Controls the amount of colour in the picture.

Hue Varies the tint of the picture.

Sharpness Allows for the sharpness of the picture to be adjusted.

Gamma* Changes the gamma response of the picture.



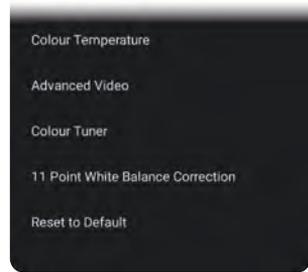
Colour Temperature* Changes the colour temperature of the picture.

Advanced Video* Options to enhance the viewing experience.

Colour Tuner* Fine-tune the colour settings (Advanced users).

11 Point White Balance Correction* Adjusts the white balance by adjusting the contrast of the three primary colours.

Reset to Default Allows you to reset the picture conditions back to their default levels (factory shipping).



Picture, explained

Picture mode.

Options are:

- User For you to set your own preferences.
- Standard For standard use.
- Vivid Enhances the contrast and brightness.
- Sport Suitable for viewing sports events.
- Movie Set for watching movies.
- Game For gamers.
- Energy Best energy performance (on by default).
- Saving

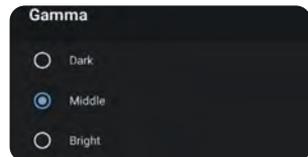


Note: Depending on television model, some picture mode options may not be available. Some settings will only be stored in the when the Picture Mode is set to User.

Gamma

Options are:

- Dark Enhances colours in dark areas.
- Middle Improves mid-range colours.
- Bright Increases brightness of colours.



Colour Temperature

Options are:

- Colour Temperature. Adjusts the color temperature. options: User / Cool / Standard / Warm.
- Gain:
 - Red Controls red content.
 - Green Controls green content.
 - Blue Controls blue content.



Advanced Video.

Options are:

DNR: Digital Noise Reduction.

Reduces the noise found in some content by using algorithms to average out pixel data.

Options: Off / Low / Medium / Strong / Auto

MPEG NR: MPEG Noise Reduction.

A feature which improves the quality of pictures by reducing the block noise and mosquito noise without compromising the picture resolution.

Options: Off / Low / Medium / Strong

Adaptive Luma Control.

Automatically adjusts the brightness and contrast after analyzing the input signal.

Options: Off / Low / Medium / Strong

Local Contrast Control:

Local contrast divides your TV screen into different “zones” so it can dim the dark parts of the screen without affecting the bright areas.

Options: Off / Low / Medium / High

Blue Stretch:

When activated, the brightest part of the screen will be leveled down to reduce the saturation.

Options: On / Off

Game Mode:

Turns off certain functions such as motion processing to reduce latency.

Options: On / Off

ALLM: Auto low latency mode.

Automatically turns on Game Mode upon detection of gameplay specific signal input.

Options: On / Off

PC Mode:

Disables certain post processing to attempt a smoother viewing experience for reading text and tracking mouse movements.

Options: On / Off

10-Bit Colour Reproduction:

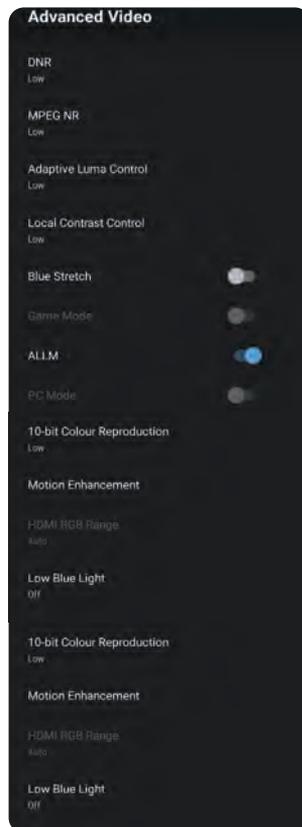
Attempts to enhance 8-bit colour information to 10-bit.

Options: Off / Low / High

Motion Enhancement:

Simulates frames from the input content to smooth motion between frames. Useful for sports content.

Options: Off / Low / Middle / High



HDMI RGB Range:

Colour range settings for HDMI input.

- Options: Auto: The TV sets the best option based on the EDID information of connected device.
- Full: The RGB signal will be displayed in the range of 0-255. This range is typically used by computers and game consoles.
- Limited: The RGB signal will be displayed in the range of 16-235. This setting is required to display movies properly.

Low Blue Light:

Reduces the blue light emitted from the TV display.

- Options: Off / Low / Middle / High

Colour Tuner

Options are:

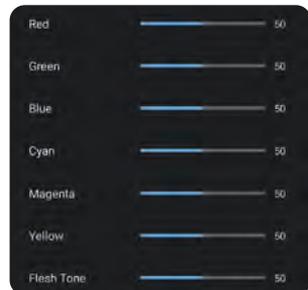
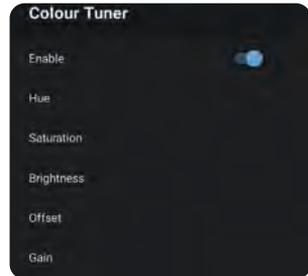
Enable

Turns the tuner on or off

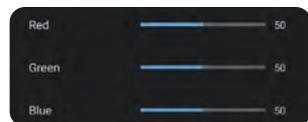
When turned to "On", the options available are:

- Hue
- Saturation
- Brightness
- Offset
- Gain

Adjustment settings for Hue, Saturation & Brightness:



Adjustment settings for Offset & Gain:



11 Point White Balance Correction

Options are:

Enable: Turns the corrector On or Off.

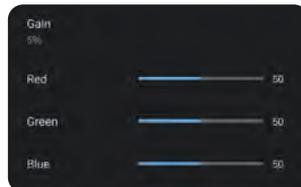
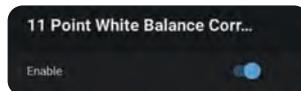
When turned to "On", the options available are:

Gain: 0% to 100%

Red:

Green:

Blue:



Sound



To enter the Sound Menu, press the **[MENU]** button and select TV. Then press the **[MENU]** button and select Sound using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.

The menu items are summarised below. Detailed descriptions in the next section, "Sound, explained" explain options for menu items with the *.

System Sounds Turns the menu navigation sounds On or Off.

Sound Style* Sets the sound mode.

Balance Controls the Left and Right balance of the audio.

Equalizer Detail* Fine control of the frequency response.

Speaker Delay Adds delay to the audio output of the speakers.

eARC Turns the HDMI Audio Return Channel between Off and Auto.

Digital Output* Settings for the digital audio output.

Digital Output Delay Allows the user to adjust the audio setting to synchronise the picture and sound for external speakers connected via a digital audio output.

Auto Volume Control When "on" is selected, the volume remains at a constant level regardless of the input/source.

Downmix mode Selects the number of audio output channels between "Stereo" and "Surround".

Dolby Audio Processing* Activates Dolby Audio Processing options.

Dialogue Enhancer Adjusts the frequency band of the center channel to improve the audibility of dialogues.



DTS Virtual:X Turns Virtual: X and TrueBass on or off.

Reset to Defaults Restores the default audio settings.

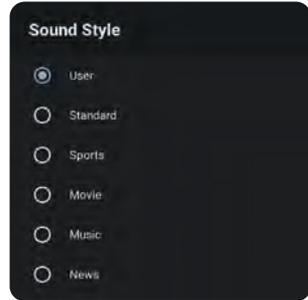
Sound, explained

Sound Style

The sound style configures the equalizer detail based on pre-defined settings.

Options are:

- User For you to set your own preferences.
- Standard Standard, default settings.
- Sports ideal for sports events.
- Movie Enhanced for movie experience.
- Music Best used when listening to radio channels.
- News Tailored for speech.



Equalizer Detail

Fine control of the frequency response. Bands you can adjust are:

- 120Hz
- 500Hz
- 1.5KHz
- 5.0KHz
- 10.0KHz

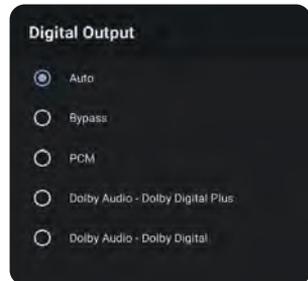


Digital Output

This adjusts the type of encoding for the output of the optical digital output.

Options are:

- Auto**
Automatically selects from the input source
- Bypass**
Audio directly comes from the connected device
- PCM**
PCM encoded stream only
- Dolby Audio® - Dolby Digital Plus**
Dolby Digital Plus signals only
- Dolby Audio® - Dolby Digital**
Dolby Digital signals only



Dolby Audio[®] Processing

Dolby Audio Processing enables specially formulated sound profiles to be enabled, bringing enhanced depth and dynamics to the overall sound of the television.

Options are:

Dolby Audio Processing

Turns processing On or Off

Sound Style

Enables Dolby engineered sound profiles. Options are:
User / Standard / Sports / Movie / Music / News

Surround Virtualizer

Turns on or off the Dolby surround sound virtualizer

Dolby Atmos

Turns on or off the Dolby Atmos Sound engine



Power



To enter the Power Menu, press the **[MENU]** button and select TV. Then press the **[MENU]** button and select Sound using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.

The menu items are summarised below.

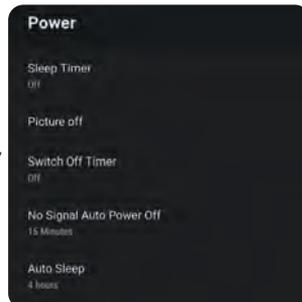
Sleep Timer Lets you set the sleep timer so the television automatically switches off after a set amount of time. Off / 10 / 20 / 30 / 40 / 50 / 60 / 90 / 120 minutes can be selected.

Picture Off Allows you to turn off the display so that there is no picture, sound still comes from the speakers. To turn display back on, press the **[STANDBY]** button on the remote control.

Switch Off Timer Controls the amount of time the set will continue without any buttons being pressed on the set or remote control before going into standby. Off / 30 / 60 / 90 / 120 / 150 / 180 / 210 / 240 minutes can be selected. Default is Off.

No Signal Auto Power Off Controls the amount of time the set will stay powered on without a signal being received. Off / 5 / 10 / 15 / 30 / 60 minutes can be selected. 15 minutes is default.

Auto Sleep Controls the amount of time the set will stay powered on without an input signal (remote, button presses) being received. Duration options are:
Never / 4 Hours (default) / 6 hours / 8 Hours



CI Card

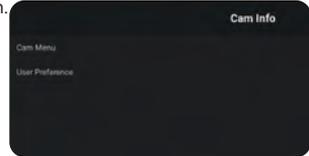


To enter the CI Card Menu, press the **[MENU]** button and select TV. Then press the **[MENU]** button and select CI Card using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.

Pay per view services require a "smartcard" to be inserted into the television. If you subscribe to a pay per view service the provider will issue you with a 'CAM' and a "smartcard".

The CAM can then be inserted into the COMMON INTERFACE PORT (CI Card In).

This menu allows you to view information and change settings of CAM. These setting will vary depending on the card installed.



Advanced Options



To enter the Advanced Option Menu, press the **[MENU]** button and select TV. Then press the **[MENU]** button and select Advanced Options using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.

Audio Language Changes the Audio Language.

2nd Audio Language Second option for Audio Language.

Sound Tracks Allows the Audio Track to be selected.

Blue Mute Changes the background colour to blue when there is no input signal.

Default Channel Allows you to choose default Digital television channel, which will be displayed after television is powered on.

Interaction Channel Turn the interactive television functionality on or off.

MHEG PIN Protection Turn PIN protection on or off.

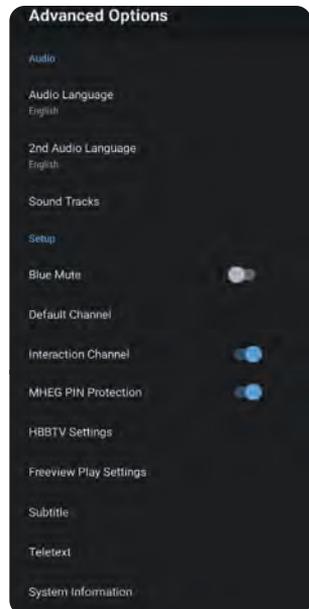
HBBTV Settings Set various options for HbbTV.

Freeview Play Settings View the Freeview Play Terms and Conditions.

Subtitle Select your preferred subtitle language and type.

Teletext Language and region settings (if available).

System Information Shows system information. Select this to view Signal Level and Signal Quality.



Settings

To enter the Settings Menu, press the **[MENU]** button and select TV. Then press the **[MENU]** button and select Settings using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.

The menu items are summarised below. Detailed descriptions in the next section, "Settings, explained" explain options for menu items with the *.

Set Your Device Name Allows you to set a name for the set so you can recognise it when casting photos, videos and more from your phone.

Network & Internet* Allows you to connect the set to the internet and take advantage of a wealth of content.

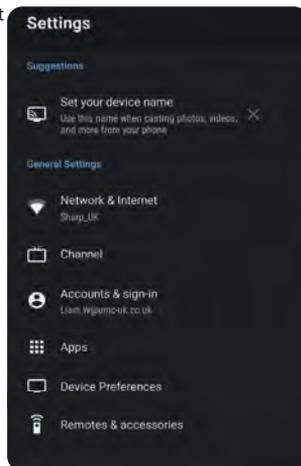
Channel* Brings up the Channel Menu. Allows you to re-tune the set.

Accounts & sign-in* Change or update your accounts and sign-in details.

Apps* Control various settings relating to installed apps.

Device Preferences* Set device preferences.

Remotes & Accessories* Set up remotes and accessories.



Settings, explained

Network & Internet

Options are:

Wi-Fi

Allows you to enable/disable the built-in Wi-Fi receiver. If on, a list of available networks will be displayed below.

Add New Network

Allows you to add Wi-Fi network manually. This is needed in case you set up on your router or are using an invisible/hidden Wi-Fi network.

Scanning Always Available

Some location apps need to periodically scan other Wi-Fi devices in the area. This function allows to scan Wi-Fi devices even in case Wi-Fi is turned off.

Wow

Wake on Wi-Fi network. Allows the set to turn on via network control wirelessly.

Wol

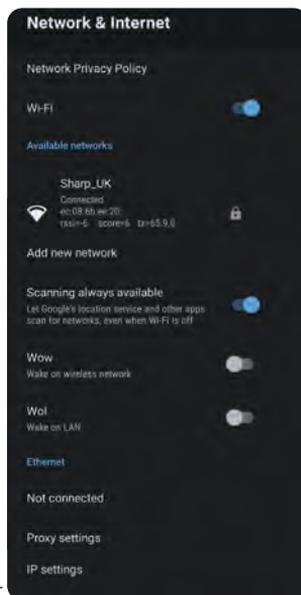
Wake on LAN. Allows the set to turn on via network control over LAN connection.

Proxy settings

Configure proxy server for web browser.

IP settings

Configure a wired network.



Connecting to a Network

You can use the internet to connect your TV to a wealth of services. You can do this using either a wired or wireless connection. Here's how to set each one up.

Connecting to a Network Using a LAN Cable

A wired LAN connection allows you to access the Internet and your home network, this is the recommended method of connection as it allows for reliable and fast connection to your network. This is also known as an Ethernet cable connection or RJ45.

When connecting your router to the set via a cable, use the ethernet port on the rear of the television. After connecting the LAN cable, your set should connect to the internet automatically if DHCP is activated on your router. To set up your router you will have to refer to the instruction manual that was supplied with the device or talk to your broadband supplier.

If you need to set up a static IP address for the television, you will need to follow these steps:

Press the **[HOME]** button, then select Settings > Network & Internet > IP settings > Static.

Now follow the on-screen instructions and fill in correct IP Address, Gateway, Network prefix length and DNS.

Connecting to a Wi-Fi Network

The built-in Wi-Fi device allows you to access the Network and enjoy the benefits of networking in a cable-free environment.

Set up your Wi-Fi router. For details, refer to the instruction manual of your Wi-Fi router.

Press the **[HOME]** button, then select Settings > Network & Internet.

From the list of available networks choose your network. If you do not see your Wi-Fi network, select "See all" option to show the complete list of all available networks.

On the virtual keyboard enter password of your network and select **[OK]**.

Your set will now automatically connect to the selected Wi-Fi network.

Channel

Options are:

Channels

Tune and control channels.

Auto Channel Update

Update channels automatically, on/off.

Channel Update Message

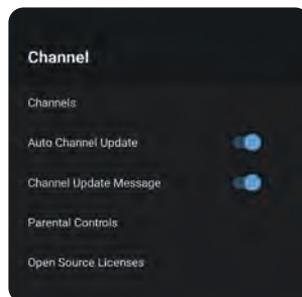
Advise when channel update is available, on/off.

Parental Controls

Set parental levels.

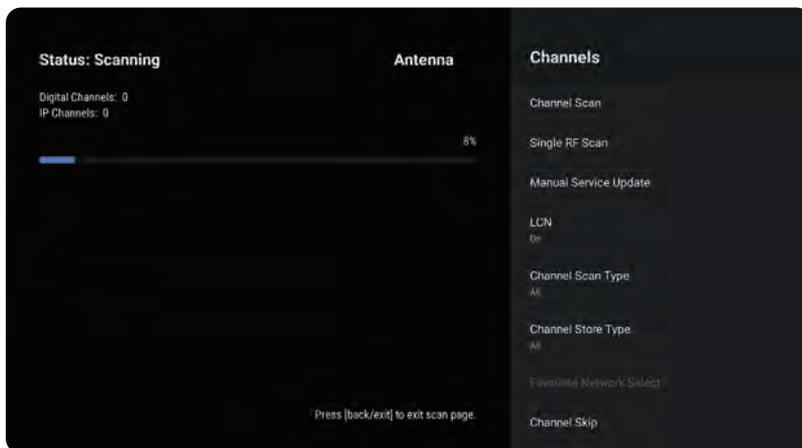
Open Source Licences

View the licences online.



Tuning in your TV

1. To tune in your television to terrestrial broadcasting networks, select the Channels option.
2. Now select "Channel Scan". You will see the following screen:



3. Wait for the status bar to show 100%.
4. Your set will have found all the available channels in your local network.

Prior to tuning in the set, you can set the following options. You can also change these and repeat the channel scan.

LCN

Logical Channel Number. When turned on, digital stations will be ordered according to provider preferences.

Channel Scan Type

Settings for Channel Scan. You can select what type of channels should be tuned: Only encrypted channels, only free channels, or all channels.

Channel Store Type

Settings for Channel Scan. You can select what type of channels should be stored after tuning finish: Only digital television channels, only radio channels, or all channels.

Favourite Network Select

In some countries/areas more networks may be available. Channels will be ordered differently according to selected network.

Channel Skip

Allows you to choose channels, which will be skipped when pressing [**CH+** / **CH-**] buttons on the remote.

Channel Sort

Allows you to swap position of two channels between each other.

Channel Move

Allows you to move selected channel to new position.

Channel Edit

Allows you to delete channels from the channel list.

Clear Channel List

Removes the channel list data.

Parental Controls

In this menu you can control the level of parental supervision on your television set when watching digital television transmissions. To enter and control the options in this menu, you will need to remember your PIN number, this was set during the first-time installation.

Options are:

Channels Blocked

Allows you to block DTV channels.

Program Restrictions

When turned on it is possible to set the Rating System and Ratings.

Options available are:

None	
High Restrictions	Content suitable for children
Medium Restrictions	Content suitable for older children
Low Restrictions	Content suitable for teens
Custom	Manual Restrictions

Inputs Blocked

Block one or several inputs.

Change PIN

Change your PIN number.

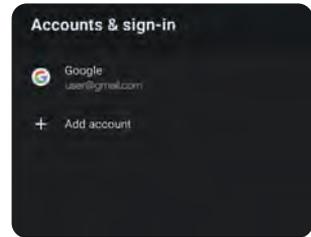
Note: The setting of parental controls relating to digital television transmissions rely on the transmitted channel and programme containing age restriction information. If this is not present, your television will not be able to block the content.

Accounts & Sign in

In this menu you can add, synchronize or remove your Google account.

You can use your account for:

1. Google Play Store.
2. Google Play Movies & Television.
3. Google Play Games.
4. YouTube.
5. Adding a new account.



Note: You can have one or more Google Accounts on your device at a time.

Sign in via Android phone

1. Select "Add account".
2. Select "Sign In".
3. Select "Use your phone or computer".
4. To sign in, follow the on-screen instructions.
5. Your phone account will be added to the television.

Sign in manually

You can do this by entering account address/password via on-screen keyboard.

1. Select "Add account".
2. Select "Sign In".
3. Enter your password using the remote control.
4. To sign in, enter your email address and password.
5. After you add your account, you'll see "Success" on the television screen.

Manage your account

You can sync devices, apps, and remove accounts from your Android television.

1. Select an account you wish to manage.
2. Choose one of the following:
 - Sync now.
 - Remove account.
 - Choose apps to sync.

Note: The television must be connected to the internet. To sign in with your Android phone television and phone must be connected to the same network.

Apps

Control and view apps here.

Recently opened apps

Shows apps which have been recently opened.

App permissions

Allows or disallows access to apps.

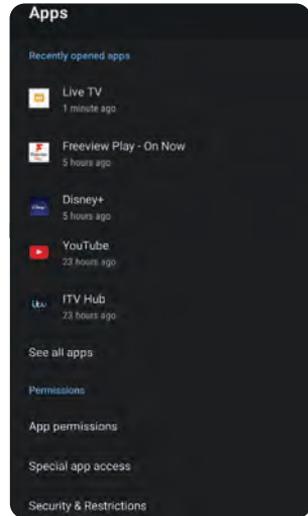
Special app access

Allows special access to be controlled:

- Energy optimization
- Usage access
- Notification access
- Display over other apps
- Modify system settings
- Directory access

Security & restrictions

Allows control of security and restrictions.



Note: Applications can be installed onto your set. These will be dedicated to your set and its functionality and/or specification. Not all apps may load onto your set.

Device Preferences

Device preferences allows you to set up your television to your choice.

About

Information about TV and software.

Date & Time

Setup timers for automatic TV start or power off.

Timer

Setup timers for automatic TV start or power off.

Language

Selects the menu language. The selected menu language will also set by the voice recognition language.

Keyboard

Configures the on-screen keyboard.

Inputs

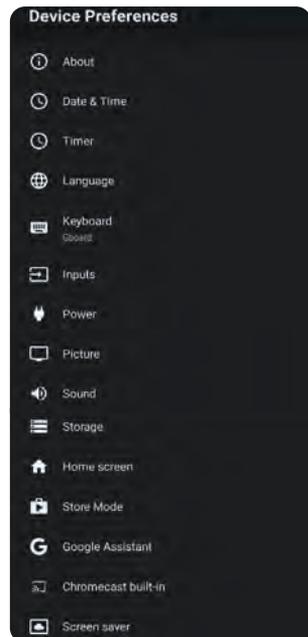
Configure Source menu and HDMI CEC.

Power

Changes the settings related to power consumption.

Picture

Adjusts the picture and screen display settings such as screen brightness.



Sound

Adjusts the sound settings and speaker related options.

Storage

Changes the settings related to data storage.

Home Screen

Customises channels displayed in the Home screen and sorts apps.

Store Mode

Activates store demonstration mode.

Google Assistant

Configures the settings related to the search function.

Chromecast Built-in

Displays information about the Chromecast feature.

Screen saver

Configures the settings of the screen saver.

Energy Saver

Configures energy settings for the set.

Location

Configures the location settings to acquire the user location.

Usage & Diagnostics

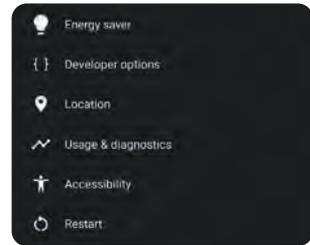
When turned on, automatically sends diagnostic information to Google.

Accessibility

Configures the settings of accessibility features and services for helping users navigate their devices more easily.

Restart

Resets TV to factory settings. All accounts will be removed from TV, all apps will be deleted as well as all Wi-Fi/LAN settings, and all system settings will return to default values.



About Menu

System Update

Checks for an update and allows this to be downloaded if available.

Device name

The name which has been given/chosen for your television. It is possible to change the name of your television here by selecting an option from the drop-down menu or make your own custom name.

Factory Reset

Restarts your set.

Status

Shows the IP address, MAC address, Bluetooth address, serial number and operation time of the television.

Legal information

Shows the licences applicable to the television. It is also possible to opt out of advertising here.

Model

Shows the model number of your Android television.

Android TV OS Version

Shows the Android software version.

Software Version

Shows the television software version.

Netflix ESN

Shows the Netflix Electronic Serial Number.

Android TV OS Security patch level

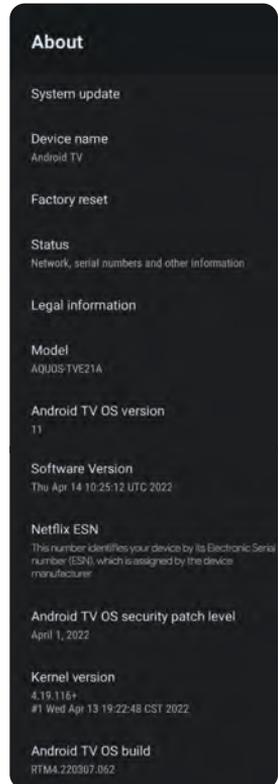
Shows the Android security level.

Kernel Version

Shows the internal operating system version.

Android TV OS build

Shows the current build version.



Date & Time

Automatic & Time

Turn on to synchronise the time to the incoming digital television signal. If connected to the internet, the clock will be updated from here. Turn off to set the clock manually.

Set date

Allows you to set date manually. This option is only available if Automatic date & time is turned off.

Set time

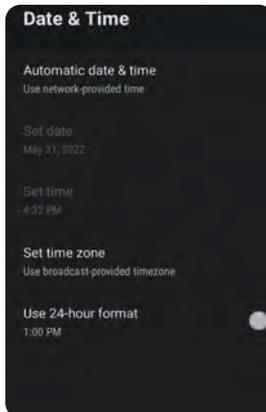
Allows you to set time manually. This option is available only if option Automatic date & time is off.

Set Time Zone

Adjustment of the time offset. This will default to your Zone country setting.

Use 24-hour Format

You can choose between 12-hour and 24-hour format for displaying time.



Note: Ensure you have set correct date and time. Some apps will not work if you have incorrect date and/or time.

Timer

Power On timer Type

Off/on/once.

Auto Power On Time

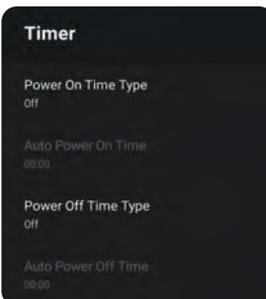
Time at which your set will turn on. This will only be active if the Power On Timer Type is set to on or once.

Power Off Time Type

Off / on / once.

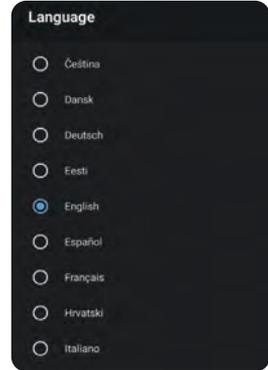
Auto Power Off Time

Time at which your set will turn off. This will only be active if the Power Off time Type is set to on or once.



Language

Here you can select the language of the on-screen display. There are many languages which can be selected here.



Keyboard

Current Keyboard

Shows which keyboard is currently selected.

Gboard Settings:

Options are:

Current version

Software version of the installed keyboard.

Languages

Keyboard language.

Terms of Service

Displays the terms of service for the keyboard software as a web page.

Privacy policy

Displays the privacy policy as a web page.

Open source Licenses

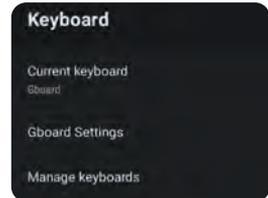
Shows the open source licenses.

Share usage Statistics

Automatically sends keyboard usage statistics to Google if turned on.

Manage Keyboards

Shows available virtual keyboards and allows them to be turned on and off.



Note: It is not normally possible to turn off Gboard.

Inputs

HDMI Control

Turn HDMI CEC on and off.

Device auto power off

If disabled, the connected device does not turn off automatically when the television is turned off.

TV auto power on

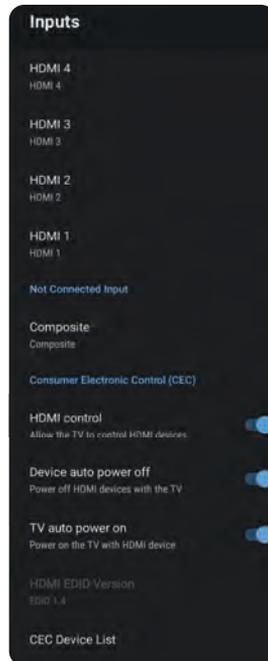
If disabled, the television does not turn on automatically when the connected device is turned on.

HDMI EDID Version

Shows the currently installed HDMI EDID version number.

CEC Device list

Displays the HDMI CEC device list.



Note: You can go directly to the DTV source (if tuned in), by pressing the numbered buttons on the remote control, i.e. pressing the number [1] will switch the set to channel 1. Alternatively, you can press the [TV] button on the remote control.

Power

Sleep Timer

Lets you set the sleep timer so the television automatically switches off after a set amount of time.

Off / 10 / 20 / 30 / 40 / 50 / 60 / 90 / 120 minutes can be selected.

Picture off

Allows you to turn off the display so that there is no picture, sound still comes from the speakers. To turn display back on, press the **[STANDBY]** button on the remote control.

Switch Off Timer

Controls the amount of time the set will continue to operate without any buttons being pressed on the set or remote control before going into standby.

Off / 30 / 60 / 90 / 120 / 150 / 180 / 210 / 240 minutes.

Default is off.

No Signal Auto Power Off

Controls the amount of time the set will continue to operate without a signal being received. Off / 5 / 10 / 15 / 30 / 60 minutes can be selected. 15 minutes is default.



Storage

Device Storage

Storage space available on the television.

Removable storage

Type and space available on connected media. When you select an item in the removable storage, you will be able to:

1. Eject the removable storage.
2. Erase and format as device storage. This will be required if the storage device is not formatted correctly to operate with the TV.



Note: By selecting each storage device you can view the storage taken by each app.

Home Screen

Customise Channels

Select channels which will appear on the home screen.

Enable video Previews

Turn home page video previews on/off.

Enable audio Previews

Turn home page audio previews on/off.

Discover

Sets up the Discover Screen to show recommended programs related to your preferences. You will be required to rate certain programs. The more programs you rate, the better the recommendations.

Once you you have set your preferences, you will have more options including:

1. Customise services
2. Content Preferences
3. View Permissions
4. Sign Out

Reorder Apps

Change the order of the home page apps.

Reorder Games

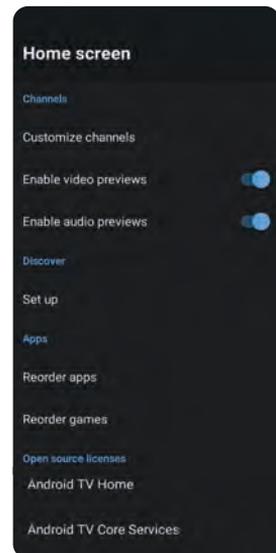
Change the order of the home page games.

Android TV home

Shows licence agreement.

Android TV Core Services

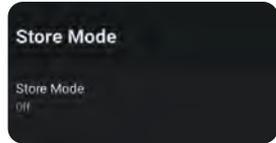
Shows licence agreement.



Store Mode

Turns on or off the store mode function.

Note: If the store mode is turned on, the set will go into the demonstration mode after a few minutes and display banners advising of the set specification on the screen.



Google Assistant

On / Off

Turns the Google Assistant on or off.

Accounts

Shows the current account name logged into the service.

Accept Permissions

Sign into your Google account to view permissions. This is not selectable if the Google Assistant is turned off.

Searchable Apps

Choose which apps to include in search results.

SafeSearch Filter

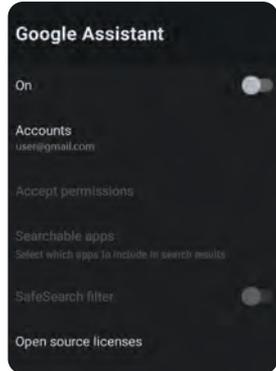
Turn SafeSearch on/off.

Block offensive words

Turn offensive word blocker on/off.

Open source licences

Shows open source licences.



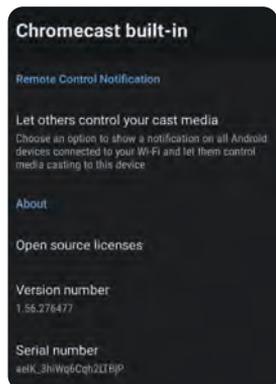
Chromecast Built-in

Remote Control Notification

Allow control of the set Android devices connected to your local network by Wi-Fi and broadcast a notification to the devices.

About

View various details regarding the open licences, version numbers and serial numbers.



Screensaver

Screen saver

When the screensaver is activated as dictated by the *When to start* options, you can select one of the following screensaver types:

Turn screen off: The screen will turn off.

Backdrop: Displays the time and a random image.

Colours: cycles through a gamut of soft colours.

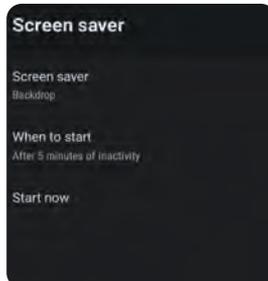
When to start

Delay to start screen saver.

Options are: 5min / 15min / 30min / 1hr / 120 minutes.

Start now

Start the screen saver now. Allows you to start the current screensaver type.

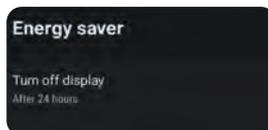


Energy Saver

Turn off Display

Controls how long before the display is turned off.

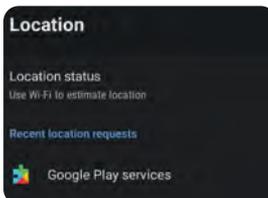
Options are: 15min / 30min / 1hr / 4hrs / 8hrs / 12hrs / Never



Location

Location status

Allows you turn on or off the option to use Wi-Fi to estimate the sets location. Location services allow a greater degree of detail in local news or information requests such as weather or traffic.



Usage & Diagnostics

When activated, the set will automatically send diagnostic information to Google. This could include data from apps, Chromecast and usage data. The information will not be used to identify you. Permissions can be changed in device settings if required.



Accessibility

Audio Type

Allows the audio type to be changed for broadcasts that support alternative audio. Options are:

- Normal
- Audio Description
- Spoken Subtitle
- Hearing Impaired
- Audio Description and Spoken Subtitle

Visually Impaired

Only appears when Audio Description is enabled. When active, options are:

- Speaker: On / Off
- Headphone: On / Off
- Volume: Range 0 - 100
- Pan and Fade: On / Off
- Fade Control

Captions

Controls various options which alter how captions are displayed on-screen.

High Contrast Text

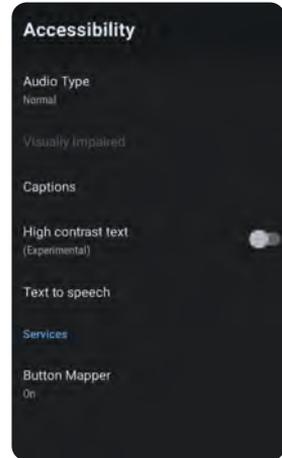
Changes the contrast of the text. These are experimental and may be subject to alterations as updates to the Android system are implemented.

Text to Speech

Options relating to the Text to Speech engine which allows on-screen text to be read aloud.

Reset

Reset the set to its factory conditions. This will erase all data and passwords. The set will start in the first-time installation mode when the reset is completed.



Remotes & Accessories

To pair your Sharp Bluetooth remote with Voice Control

1. Press the **[HOME]** button, then select Settings > Remotes & Accessories.
2. To pair remote with television, follow on-screen instructions.
3. The name of your remote control will appear on the television screen.
4. Press **[OK]** to confirm pairing.

To pair other Bluetooth devices

1. Press the **[HOME]** button, then select Settings > Remotes & Accessories.
2. Put Bluetooth device into pairing mode. For details, refer to the instruction manual of your device.
3. The name of your remote control will appear on the television screen.
4. Press **[OK]** to confirm pairing.

Note: Your remote control supplied with your set has both IR (Infra-Red) and RF (Bluetooth connectivity). For normal television operation it is not necessary to pair your remote control. When using voice commands while in the Google Assist mode, the remote control must be linked to the set using the RF connection.

Bluetooth enabled items such as remote controls, keyboards, pointing devices, etc. can be added to enhance the functionality of your set.

DIGITAL TELEVISION, FREEVIEW AND FREEVIEW PLAY

To watch television programmes via Antenna, Cable or Satellite, press the **[HOME]** button, select "Apps" from the Home Page, and select Live television from the apps list. You can also enter the digital television mode by pressing the **[TV]** button on the remote control.

Should your set not be tuned into a digital signal, follow the instructions as below:

Tuning in Digital Channels

It is possible to tune into either terrestrial, cable or satellite digital television signals on your television set. To do this, follow the instructions given below for each type of signal input. Only one tuning type can be selected.

Terrestrial

Before tuning terrestrial channels, ensure the television is in TV mode:

1. Press the **[HOME]** button, then select Settings > Channel > Channel installation mode.
2. Select option Antenna.
3. To start automatic channel scan press the **[HOME]** button, then select Settings > Channel > Channels > Channel scan.

After tuning into Freeview, you may be presented with a choice of regions; this is dependent upon your location and the number of transmissions received. Normally there will only be one transmitter:

- Region 1 Country
- Region 2 Transmitter Location
- Region 3 Local News variation

Cable

Receiving cable digital broadcast;

1. Before tuning cable channels, ensure the television is in cable mode:
2. Press the **[HOME]** button, then select Settings > Channel > Channel installation mode.
3. Select option Cable.
4. To start automatic channel scan, press the **[HOME]** button, then select Settings > Channel > Channels > Channel scan.

Satellite

Before tuning satellite channels, ensure the television is in satellite mode:

1. Press the **[HOME]** button, then select Settings > Channel > Channel installation mode.
2. Select option Preferred Satellite if you want to tune one of satellites preferred in your country.
3. Select option General Satellite to get possibility to tune any satellite.
4. To start automatic channel scan, press the **[HOME]** button, then select Settings > Channel > Channels > Satellite Re-scan.
5. Choose the Satellite you wish to tune.
6. Select Scan and press **[OK]**.

Using Freeview Play

Freeview Play enables you to watch live television as well as having access to catch up television services and playback from the start of a live programme.

Note: To use Freeview Play your set needs to be connected to the internet and tuned into a reliable and consistent Freeview signal.

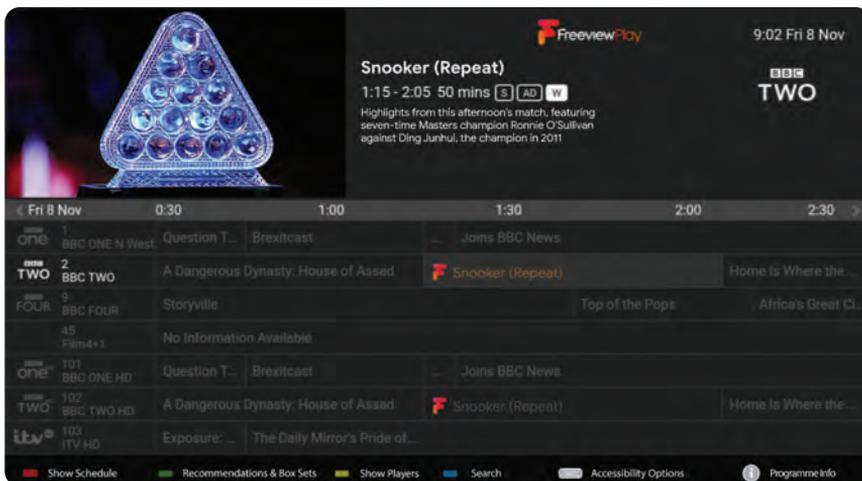
Freeview Play is only available in the United Kingdom.

To tune in your set, refer to the *Tuning in Digital Channels* section on page 63.

Channel Guide

While using Freeview Play, the Electronic Programme Guide (EPG) is available while in the Live Television mode. It provides information about forthcoming programmes. You can view the start and end time of all programmes and on all channels for the next 7 days. To enter the EPG, press the **[GUIDE]** button on your remote control. Press the **[EXIT]** button to leave programme guide.

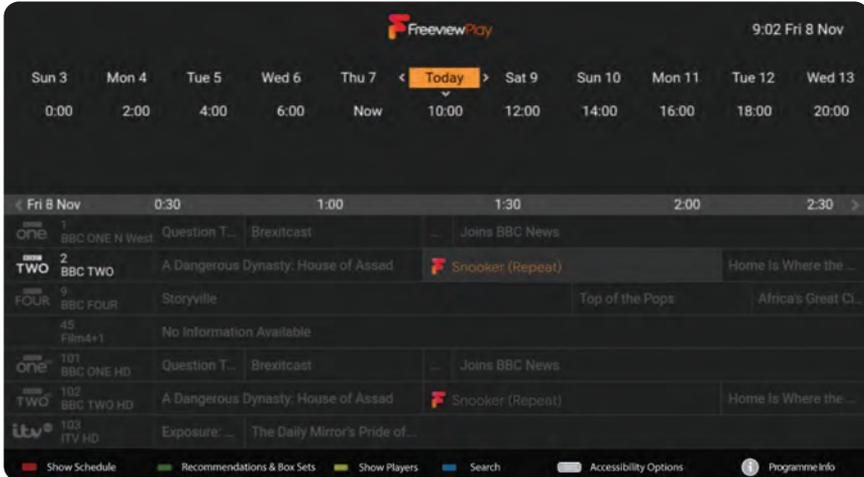
When the EPG is entered, a screen like the one below will appear. This will show a live preview of the programme being received in the top left-hand corner and a synopsis this on the right. This synopsis will change as you navigate around the guide with the **[ARROW]** buttons on the remote control.



In the middle of the display is the programme listing, which is shown in time order, half hour segments being shown at the top and channel name on the left. If you would like to quickly scan through the channels, press the **[CH+]** or **[CH-]** buttons to quickly move up or down through the listings. Using the **[RIGHT]** button will move forward in time, using the **[LEFT]** button will move back in time.

Tuning in Digital Channels

When moving backwards through the EPG, the display will change to show the programmes which have been previously recorded on the on-demand players for the channel shown. Recorded and available programmes will be indicated by the Freeview Play logo appearing next to them as shown in the picture below. Greyed out programmes are not available on catch up.



When a programme has been selected, the preview window and synopsis change to show the programme details. The date is below the preview window.

Note: For full functionality of the EPG, a reliable and consistent connection to the internet is required.

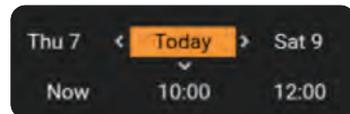
Without internet, back EPG will not work, channel preview will not appear, programme synopsis will change to a basic view, channel icons will not be present and catch up services will not be available.

Quick Buttons

While in the EPG, various functions can be accessed quickly by pressing the coloured buttons at the bottom of the remote control. These are detailed as described below.

[RED] – Goes to the Schedule List

While in the schedule list you can go backwards and forwards in time (7 days forwards and 7 days backwards) to select the programme which you would like to watch. If the Freeview Play logo is present, the programme can be played back when selected using the **[ARROW]** buttons and **[OK]** is pressed.



You can also select the day and time of the schedule list view by entering the rows at the top of the screen and selecting the day and time range.

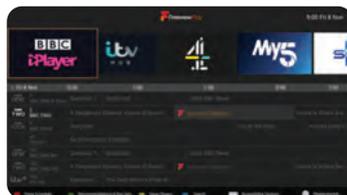
[GREEN] – Recommendations & Box Sets

Freeview Play recommendations can be viewed by pressing the **[GREEN]** button on the remote control. This screen allows you to choose the programme to watch directly or select from a number of genres. Select the programme to watch using the **[ARROW]** keys on the remote control and then press **[OK]** to start playback.



[YELLOW] – Show Players

When the **[YELLOW]** button is pressed on the remote control while in the EPG or in recommendations, the set will allow access to the back EPG and the various Freeview Play on-demand applications. The 'Catch Up' menu allows you to access available programmes, from the last 7 days, that you may have missed. The 'Catch Up' menu will show programmes, by day, in the order that they were broadcast (descending in time order).



To navigate through this page, use the **[ARROW]** buttons on the remote control and then press **[OK]** to either play back the selected programme or go into the chosen on-demand player.

While playing back a programme, or in one of the on-demand players, pressing **[BACK]** or **[EXIT]** on the remote control will take you back to the 'Catch Up' menu. Pressing **[BACK]** or **[EXIT]** again takes you out of the programme guide and back to standard television.

! **Note:** Catch Up is only available on Freeview Play. On-demand players may require you to log in.

[BLUE] – Search

You can use the powerful search function to look for a recorded programme by its name. Use the on-screen keyboard to enter the name, or part of the name of the programme which you would like to view and then select from the list which appears to the right of the keyboard.



When the required name is shown on the right-hand side, it can be selected to bring up the list of programmes with that title. Select one of the streams to playback using the **[ARROW]** buttons on the remote control and **[OK]** to start the playback.



Freeview Play Button

If the **[FREEVIEW PLAY]** button is pressed on the remote control, the set will display the Freeview Mini Guide.



Programmes on now are displayed for all channels. Select one of these using the **[ARROW]** buttons on the remote control and **[OK]** to change to this channel and view the programme.

While on the selected channel, you can also press one of the coloured buttons on the remote control.

Should there be a "swirl" symbol next to the programme name, this means that you can playback the program from the start.

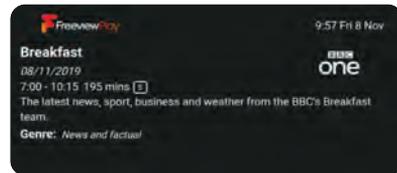


[RED] – View Programme List

Press the **[RED]** button to enter the view programme list for the channel you are on. This will show both future and past programmes which can be selected by pressing the **[LEFT]** or **[RIGHT]** arrow buttons on the remote control and the **[OK]** button to view.

If the **[INFO]** button is pressed while on the selected programme, then an information screen is displayed.

While in the view programme list, the **[RED]** button can be pressed to return to the On TV Now option.



[GREEN] - Recommendations

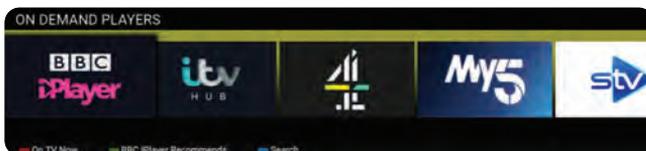
Press the **[GREEN]** button to view recommendations for the channel that you have selected.



If the **[GREEN]** button is pressed here, all recommendations for all channels will be shown.

[YELLOW] – On Demand Players

Press the **[YELLOW]** button to enter the on-demand players.



[BLUE] - Search

Press the **[BLUE]** button to search for a television programme. This is the same as the search function on the main EPG page.

Freeview Play App

The Freeview Play app can be accessed a number of ways on your television set:

- From the Programme Guide press the **[YELLOW]** button and then select the Explore Freeview Play app.
- From the Home Page, select the Explore Freeview Play app.
- While in Freeview, select channel 100.
- Press the **[FREEVIEW PLAY]** button followed by the **[YELLOW]** button. Select the Freeview Play app from the on-demand players.



When in the Freeview Play application, it is possible to search for a programme by name. Choose the “Search everything” option and then use the on-screen keyboard to type in the programme name. As you type, selections will appear. Select one of these options and press the **[OK]** button to start playback.

Freeview Play brings together live television viewing with “catch up” television services from broadcasters such as BBC, ITV, Channel 4 and Channel 5. The Freeview Play Explore app features a carousel of genres to select from when searching for programmes, such as sport, comedy, dramas and soaps, etc. Content is made up from recommendations of the major broadcasters and offers an alternative means of searching.

Note: To use the full functionality of Freeview Play your set must be connected to the internet.

Some apps require additional registration, this is a simple process and it will inform you of the correct website to visit to complete the registration.

Areas receiving Saorview transmissions will not support Freeview Play or Freeview Play services.

Channel List

Use the channel list to quickly go to the channel you want to watch. Use the **[GREEN]** and **[RED]** buttons to navigate up and down the list.

Filter List

Press the **[YELLOW]** button to get options to sort or filter channels and search channel by its number or name. When you select Type, it is possible to restrict the Channel list to various types of channels such as Radio, Free, Analogue, etc.

When selecting Find, you can search for a channel name by its name by entering the name you are looking for via the on-screen keyboard.

Favourites List

Press the **[BLUE]** button to open Favourites list. A list of your favourite channels will be shown here. No channels will appear unless you have added them to the list.

Adding a Favourite Channel

To add a favourite channel, go to the live digital television channel you would like to add to your favourites list, press the **[MENU]** button and then the **[UP ARROW]** button. The "Add to Favourites" icon should be highlighted, press **[OK]**. The channel is now added to your favourites list.

Adding a Favourite Channel

To modify your list of channels:

1. Press the SOURCE button and select television.
2. Press the MENU button and go to Settings > Channel > Channels.

You can choose one of menu items related to editing of channel list:

Channel Remote

Allows you to choose channels, which will be skipped when pressing **[CH+ / CH-]** buttons on the skip.

Channel Sort

Allows you to swap position of two channels between each other.

Channel Move

Allows you to move selected channel to new position.

Channel Edit

Allows you to delete channels from the channel list.

Information Bar

When the **[INFO]** button is pressed on the remote control, the information bar will appear at the top of the screen.

If the **[INFO]** button is pressed again, the information bar will change to show further detail.

This shows a large amount of information on the channel currently being received, this includes the following:

- Channel selected
- Program being transmitted
- Time progress bar
- Program start and end time
- Time of day
- Description of the program
- Subtitles available
- Audio description available
- Program genre

UPDATING SOFTWARE

There are a number of ways in which the software on your set can be updated. When your set is produced, the software installed will ensure the correct operation of the set, this may need to be updated should improvements be made and this is normally carried out automatically if the set is connected to the internet.

Note: For further support with software updates, contact our technical support team or refer to the 'Product Support' section of the website. If the television is using the newest software available it will not attempt to update the software.

- If your set is outside of guarantee and the installation of the software causes a different issue you may be liable for a chargeable repair service. The reason for this is because you may have a fault which can cause corruption on one of the boards when installing the software. This could result in your unit locking into SAFE mode whereby it is stuck in standby. This is not a fault with the software, this would be caused by an existing faulty board that would have required a repair.

SPECIFICATIONS

USB

Supported Video Formats

Video Codec	Container	Data Rate	Profile	Resolution
XviD	MP4 (.mp4, .mov)	40 Mbps	N/A	1080P @ 60fps
	DivX (.divx)			
	AVI (.avi)			
	MKV (.mkv)			
	ASF (.asf)			
Sorenson H.263	FLV (.flv)	40 Mbps	N/A	1080P @ 60fps
	AVI (.avi)			
	SWF (.swf)			
H.263	MP4 (.mp4, .mov)	40 Mbps	N/A	1080P @ 60fps
	3GPP (.3gpp, .3gp)			
	AVI (.avi)			
	MKV (.mkv)			
H.264	FLV (.flv)	62.5 Mbps	. Main Profile . High Profile @ Level 4.2	1080P @ 60fps
	MP4 (.mp4, .mov)			
	3GPP (.3gpp, .3gp)			
	MPEG transport stream (.ts, .trp, .tp)			
	ASF (.asf)			
	WMV (.wmv)			
	AVI (.avi)			
	MKV (.mkv)			
MPEG4	MPEG program stream (.MPG, .MPEG)	40 Mbps	. Simple Profile . Advanced Simple Profile@Level 5. . GMC is not supported	1080P @ 60fps
	MP4 (.mp4, .mov)			
	3GPP (.3gpp, .3gp)			
	AVI (.avi)			
	MKV (.mkv)			
	ASF (.asf)			
HEVC/H.265	MP4(.mp4,.mov)	50 Mbps	. Main(8bits)/ . Main10(10bits) Profile, High Tier@ Level 4.1	2048x1088 @ 60fps
	3GPP(.3gpp, .3gp)			
	MPEG transport stream(.ts, .trp, .tp)			
	MKV(.mkv)			
SHVC	MP4 (.mp4, .mov)	50 Mbps	.Main(8bits) .Main10 (10bits) Profile, High Tier@Level 4.1	2048x1088 @ 60 fps + 1280x720 @ 60 fps
	3GPP (.3gpp, .3gp)			
	MPEG transport stream (.ts, .trp, .tp)			
	MKV (.mkv)			
MVC	MPEG transport stream (.ts, .trp, .tp)	62.5 Mbps	N/A	1080P @ 30 fps

Continued Next Page

Supported Video Formats (continued)

Video Codec	Container	Data Rate	Profile	Resolution
AVS	MPEG transport stream (.ts, .trp, .tp)	60 Mbps	. Jizhun profile @ Level 6.0	1080P @ 60 fps
AVS+	MPEG transport stream (.ts, .trp, .tp)	60 Mbps	Broadcasting profile@Level 6.0.1.08.60	1080P @ 60 fps
MPEG1/2	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)	MPEG1 40 Mbps MPEG2 80 Mbps	MP@HL	1080P @ 60 fps
	MPEG transport stream (.ts, .trp, .tp)			
	MP4 (.mp4, .mov)			
	3GPP (.3gpp, .3gp)			
	AVI (.avi)			
	MKV (.mkv)			
Motion JPEG	ASF (.asf)	10 Mbps	N/A	640x480 @ 30 fps
	AVI (.avi)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MKV (.mkv)			
VP8	ASF (.asf)	50 Mbps	N/A	1080P @ 60 fps
	MKV (.mkv)			
VP9	WebM (.webm)	30 Mbps	. Profile0/2	2048x1088 @ 60 fps
	MKV (.mkv)			
	WebM (.webm)			

Supported Audio Formats

Audio Codec	Container	Sample Rate	Bit Rate	Channel
MPEG1/2 Layer1	MOVIE:	16KHz ~ 48KHz	32 Kbps ~ 448 Kbps	Up to 2
	AVI (.avi)			
	ASF (.asf)			
	DivX (.divx)			
	Matroska (.mkv)			
	MPEG transport stream (.ts, .trp, .tp)			
MPEG1/2 Layer2	MOVIE:	16KHz ~ 48KHz	8Kbps ~ 384Kbps	Up to 2
	AVI (.avi)			
	ASF (.asf)			
	DivX (.divx)			
	Matroska (.mkv)			
	MPEG transport stream (.ts, .trp, .tp)			
MPEG1/2/2.5 Layer3	MOVIE:	8KHz~48KHz	8Kbps ~ 320Kbps	Up to 2
	AVI (.avi)			
	ASF (.asf)			
	DivX (.divx)			
	Matroska (.mkv)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MPEG transport stream (.ts, .trp, .tp)			
AC3	MOVIE:	32KHz, 44.1KHz, 48KHz	32Kbps ~ 640Kbps	Up to 5.1
	AVI (.avi)			
	Matroska (.mkv)			
	DivX (.divx)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MPEG transport stream (.ts, .trp, .tp)			
	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)			
	RM (.rm, .rmvb)			
	MUSIC:			
	AC3: (.ac3)			
	MP4 (.m4a)			

Continued Next Page

Supported Audio Formats (continued)

Audio Codec	Container	Sample Rate	Bit Rate	Channel
EAC3	MOVIE:	32KHz, 44.1KHz, 48KHz	32 Kbps ~ 6 Mbps	Up to 5.1
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov, .m4a)			
	MPEG transport stream (.ts, .trp, .tp)			
	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)			
	MUSIC:			
	EAC3 (.ec3)			
MP4 (m4a)				
VORBIS	MOVIE:	Up to 48KHz	N/A	Up to 2
	Matroska (.mkv)			
	WebM (.webm)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MUSIC:			
	MP4 (.m4a)			
OGG (.ogg)				
LPCM	MOVIE:	8KHz ~ 48KHz	64 Kbps ~ 1.5 Mbps	Mono, Stereo, 5.1
	AVI (.avi)			
	Matroska (.mkv)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MPEG transport stream (.ts, .trp, .tp)			
	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)			
	MUSIC:			
	WAV (.wav)			
MP4 (.m4a)				
G711 A/ MP4 (.m4a) mu-law	MOVIE:	8KHz	64 Kbps	1
	AVI (.avi)			
	Matroska (.mkv)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MUSIC:			
	WAV (.wav)			
	MP4 (.m4a)			

Continued Next Page

Supported Audio Formats (continued)

Audio Codec	Container	Sample Rate	Bit Rate	Channel
IMA-A DPCM MS-A DPCM	MOVIE:	8KHz ~ 48KHz	32 Kbps ~ 384K bps	Up to 2
	AVI (.avi)			
	Matroska (.mkv)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MUSIC:			
	WAV (.wav)			
MP4 (.m4a)				
DTS	MOVIE:	Up to 48KHz	< 1.5 Mbps	Up to 5.1
	MPEG transport stream (.ts, .trp, .tp)			
	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)			
	Matroska (.mkv)			

Supported Image Formats

Image	Photo	Resolution Recommended (width x height)
JPEG	Base-line	15360x8640 (1920x8 x 1080x8)
	Progressive	1024x768
PNG	Non-interlace	9600x6400
	Interlaced	1200x800
BMP		9600x6400
MPO	Base-line	15360x8640 (1920x8 x 1080x8)
	Progressive	1024x768
GIF		6400x4800

TROUBLESHOOTING GUIDE

If a full restart of the TV is required

If you have trouble, such as the picture not displaying on the screen or the remote control not working, reset the television with the following procedure.

If an external USB device is connected to the TV, disconnect the USB device from the TV before resetting.

Power Reset

Restart the TV with the remote control.

Press and hold the power button on the remote control for about 5 seconds until the **[Power off]** message is displayed. Confirm this by pressing OK button and the TV will turn off.

Unplug the AC power cord (mains lead).

If the problem persists after step 1, unplug the TV power cord (mains lead) from the electrical outlet and wait for 2 minutes. Then plug the power cord (mains lead) back into the electrical outlet.

Note: Your personal settings and data will not be lost after the TV restarts.

Factory Data Reset

If the problem persists after a power reset, try a factory data reset.

Note: Performing a factory reset will delete all of the TV's data and settings (such as Wi-Fi and wired network setting information, Google account and other login information, Google Play and other installed apps).

Press the **[HOME]** button, then select Settings > Device Preferences > Reset > Erase everything.

After the factory reset process completes successfully, your television will proceed into the first time installation mode. You must agree to the Google Terms of Service and Google Privacy Policy.

What type of storage device do I require for Apps

Should you wish to store your Apps on an external memory device, this can either be in the form of a SD card or a USB connected storage device (USB memory stick).

It is recommended that the memory device does not exceed 256Gb and has read speeds of at least 15MB per second write speeds greater than 4MB per second.

Note: If using a powered memory device, ensure that the power is applied before turning on the set.

No colour/Dark picture/Colour is not correct/Picture is too bright

You can adjust colour tone, brightness and picture quality on your TV from the Picture menu in Settings.

Press the **[HOME]** button, then select Settings > Device Preferences > Picture.

In this menu you can make manual picture adjustments.

If you want to reset the picture settings, select Reset to Default option.

Distorted picture/The screen flickers

You can check the connection and position of the antenna (aerial) and external devices.

Check the antenna aerial/cable connection.

Keep the antenna aerial/cable away from other connecting cables.

When installing an optional device, leave some space between the device and the TV.

Make sure that the antenna (aerial) is connected using a high quality 75-ohm coaxial cable.

Check the troubleshooting guide for the connected device.

There are icons and text on the edges of the screen

In this case, the TV might be in store demo mode. Try exiting store mode.

Press the **[HOME]** button on the remote control and select Settings > Device Preferences > Store Mode > Disable Store Mode.

Cannot operate the current screen after the on-screen keyboard is displayed

To return to operation of the screen behind the on-screen keyboard, press the **[BACK]** button on the remote control.

Some channels are blank

The channel is for scrambled/subscription service only. Subscribe to a pay TV service.

The channel is used only for data (no picture or sound).

Contact the broadcaster for transmission details.

No sound but good picture

Check the volume control.

Press  or **[VOL+]** button to cancel muting.

While in Television mode, press the **[MENU]** button, then select Speakers > TV speakers.

Remove any headphones.

The TV cannot connect to the Internet/Network

If the Wi-Fi network does not connect or disconnects, try the following.

Press the **[HOME]** button and check that the following setting is enabled. Settings > Network & Internet > Wi Fi.

Check the installation location of the TV and Wi-Fi router. Signal condition may be affected by the following:

Other Wi-Fi devices, microwaves, fluorescent lights, etc. that may be located nearby.

There are floors or walls between the Wi-Fi router and television.

Turn the Wi-Fi router off and then on again.

If the network name (SSID) of the Wi-Fi router to which you want to connect is not displayed, select Add new network to enter a network name (SSID).

If the problem is not resolved even after the procedures above or if you cannot connect even with a wired network, check the status of the network connection.

TV can connect to the Internet, but not to certain apps and services

The date and time settings of this TV may be incorrect. Depending on certain apps and services, you may not be able to connect to these if the time is incorrect.

Press the **[HOME]** button, then select Settings > Device Preferences > Date & time > Automatic date & time > Use network-provided time to automatically adjust the time through the network.

Check that the LAN cable or AC power cord (mains lead) of the router/modem has been connected properly.

Try using apps later. The app content provider server may be out of service.

The remote control does not operate.

Check if the TV is working properly.

Press the power button on the television to determine if the problem is with the remote control or not.

Check if the remote control is working properly.

Point the remote control at the remote control sensor located at the front of the television.

Keep the remote control sensor area clear from obstacles.

Fluorescent light can interfere with remote control operation; try turning off any fluorescent light.

Check that the orientation of each battery matches the positive (+) and negative (-) symbols in the battery compartment.

Battery power may be low. Remove the remote control cover and replace the batteries with new ones.

It is not possible to control the Google Assistant with voice

To use your voice to control the Google Assistant, you need a remote control which has a  button, in addition the television must be paired to this remote control.

If your remote is not paired with the TV yet, please follow the steps below:

Press the  button on the remote control.

Follow the on-screen instructions to pair the remote control with the television.

Select the detected remote control shown on the screen and press **[OK]**.

Once paired, the pairing screen will disappear.

Pairing the remote

If during the first-time installation process the remote was not paired or skipped, then follow the process below to pair your remote with the television:

1. Turn the set on.
2. Go to Settings > Remotes and Accessories or press the  button on the remote control.
3. Now press and hold the **[LEFT ARROW]** and **[HOME]** buttons on the remote control at the same time.
4. The LED indicator on the remote control will start to flash.
5. Select your remote control from the list shown on the television screen and press **[OK]** on the remote control.
6. Once paired, the pairing screen will disappear.



Note: This process will only have to be completed if the remote control has not been paired.

Once paired, when the  button is pressed, it will open the Google Assistant screen on the television and activate voice functionality.

When your remote control is paired, it uses Bluetooth to transmit information. This means that the remote does not need to be pointed towards the set to work.

I cannot set the picture levels while on apps

This is because the application sets the picture levels.

I cannot access Freeview Play

To enable Freeview Play to operate correctly, you must have the set tuned in and set up in the UK and installed as country setting UK. In addition, it needs to be connected to the internet.

Why am I not able to use letters in my PIN?

Your PIN is a quick code used for accessing some of the higher functions of your set. This only contains numbers so that they can be entered using your remote control keypad.

Can I log in to multiple Google accounts?

It is possible to enter more than one Google account on your set.

How do I add and remove Apps from the favourite bar?

To remove an App from the favourite bar, select the app to be deleted, press and hold **[OK]** button until pop-up menu appears. Choose option "Uninstall" and confirm with **[OK]**.

Can I set parental controls?

Parental controls are possible when receiving digital television channels (should this service be provided by the broadcaster).

Parental control within apps is determined by the functionality of the app. For details on this you will need to go into the app settings. It is possible to prevent apps from being downloaded to the set to view options go to Settings > Apps.

What do I do if my apps do not work?

First check that your set is connected to the internet, if it is, ensure that the internet connection is consistent and reliable. If this does not resolve the issue, remove the mains supply from the set and turn back on a few minutes later.

If this does not work, reset the set via Settings > Device Preferences > Reset.

Do I need an aerial signal?

For full functionality of your Android set equipped with Freeview Play you will require an aerial connected to the set with an adequate and reliable signal.

Personal Data

To remove personal data from this set, carry out a reset on your set:
Settings > Device Preferences > Reset > Erase everything.

Why does my set turn on from standby so quickly?

During standby your set will be in a higher power state to enable it to turn on quickly. Should you want to put the set into low power standby, press and hold down the **[STANDBY]** button on the remote control for more than two seconds. This will bring up an option to put the set into low power standby. While in low power standby, the set will take longer to come on when the **[STANDBY]** button is pressed.

How do I use Chromecast?

Chromecast built-in allows you to wirelessly cast content from your favourite websites and apps to your television, directly from your computer or mobile device.

1. Connect a mobile device such as a smartphone or tablet to the same home network that the television is connected to.
2. Launch a Chromecast supported app on the mobile device.
3. Select the (cast) icon in the app.

The screen of the mobile device is displayed on the television.



Note: Casting may be limited by the device you are using, additional apps for your device may be required.

If you are experiencing problems with video casting from mobile device to your television, make sure that Chromecast built-in was enabled during the First Time Installation process.

If you do not wish to reset TV to repeat First Time Installation, Chromecast built-in can be activated by enabling options [WoW] and [WoL] in the menu [Settings] — [Network & Internet]. After enabling these 2 options, unplug the set from the mains and plug back in order to make enable these changes.

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SHA/MAN/0535