BUSH

androidtv

Instruction manual

HA42U5232MEKB

Cat Number: 923/0981

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BUSH

Important Guarantee Information

Congratulations on purchasing this television. We hope you have many years of trouble free enjoyment from your purchase.

Your product is covered under the manufacturers guarantee for 12 months from the date of purchase.

If you experience any difficulties with your TV, please refer to the 'Troubleshooting guide' section in this user guide.

If you are still unable to remedy the issue, try resetting the TV to factory settings. (Details in the 'Settings menu' section of this user guide). Alternatively you can contact the helpline on the number below.

In any event where you need help, please call the helpline number below. Alternatively, visit the the website below where you can find information to solve more common problems.

Helpline: 0345 604 0105　　　**Web**: www.bush-support.co.uk

Helpline open 8am-7pm Monday to Saturday and 10am-4pm Sunday.
Local call rates applies*

*Calls to Bush enquiry lines may attract a charge and set up fee from residential lines depending on your call plan/tariff. Mobile and other providers costs may vary. Refer to your residential line provider / mobile provider for pricing details.
For security and training purposes, telephone calls to and from customer service centres may be recorded and monitored. Calls from Republic of Ireland will attract international call charges.

You must retain all packaging materials, in addition to your proof of purchase/receipt, as you will need these in the event of warranty/service support.

This guarantee is in addition to and does not affect your statutory rights.

If you need to call the helpline, you will need the following information:

1) Model Ref　　_____　(You can find this on the rear of the TV)

2) Date of purchase　_____　(You can find this on your sales receipt)

3) Serial Number　_____　(You can find this on the rear of the TV)

EXAMPLE OF LABEL ON REAR OF TV

Model Ref

Serial No.
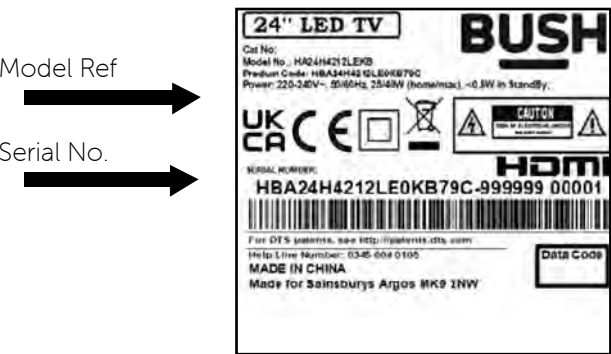
This TV is for domestic use only

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Contents

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions.

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BUSH

Safety information   1

⚠ Safety information

Important - Please read these instructions fully before installing or operating

Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

~ - 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 manufacturers guarantee does not extend to faults caused by repairs carried out by un-authorised 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. Allow at least 5cm around the TV 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 approximately 2.5-3 times the length of the diagonal measurements of the TV screen.
• 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.
• Do not leave your TV in standby or operating mode when you leave your house.
WARNING: Excessive volume when using earphones and headphones can cause damage to hearing.
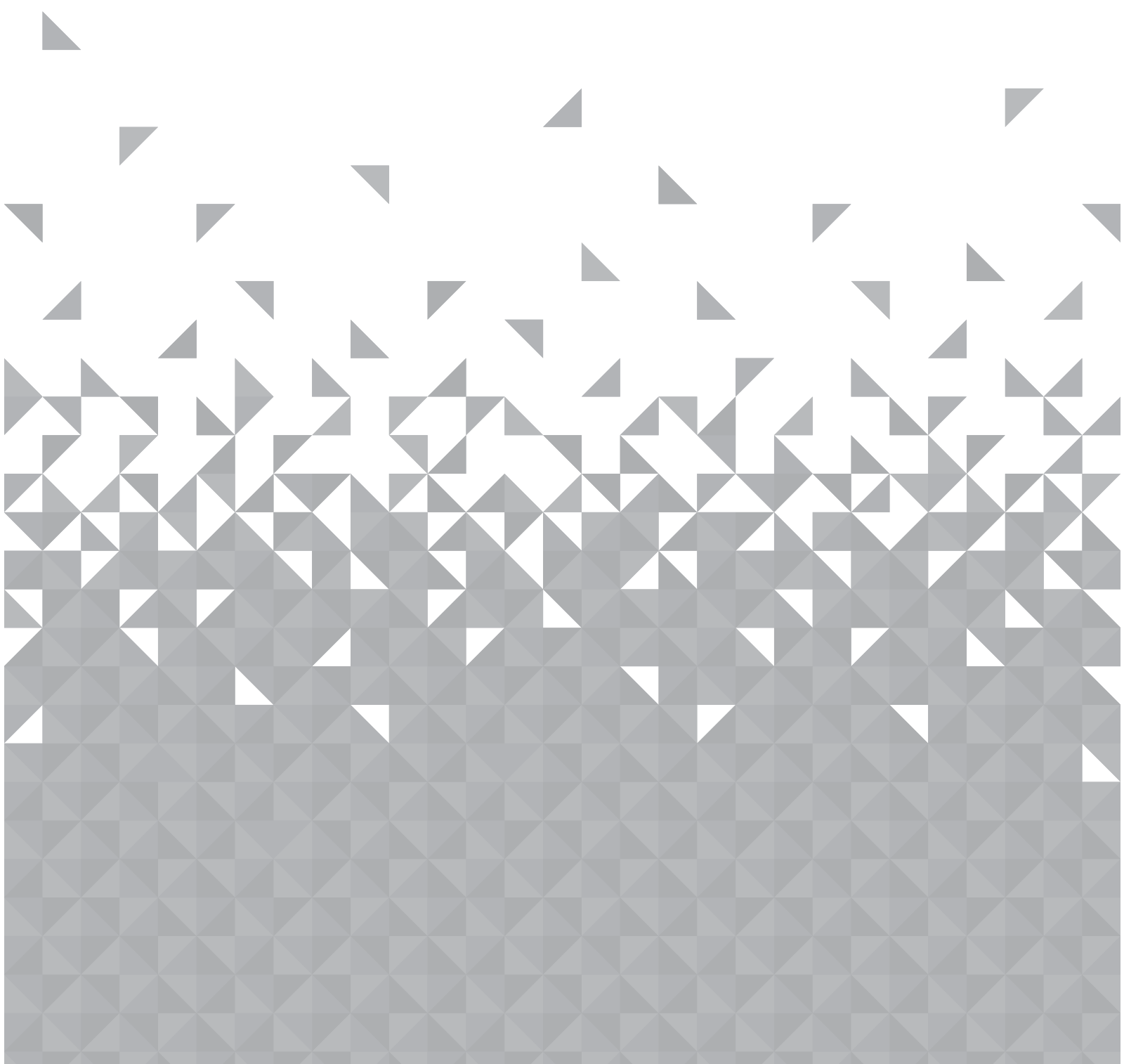
If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.
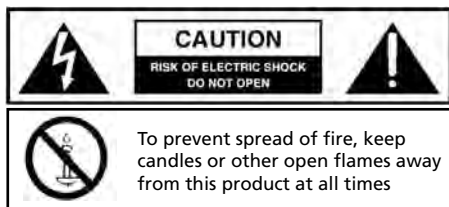
⚠ Safety information

Important - Please read these instructions fully before installing or operating

Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

Intended Use
• This TV is used to receive and display TV programmes. The different connection options make an additional expansion of the reception and display sources possible (various external devices). This TV is only suitable for dry interior use.
• This TV is intended solely for private domestic use and may not be used for industrial and commercial purposes. We exclude liability in principle, if the TV is not used as intended, or un-authorised modifications have been made.
• To operate your TV in extreme ambient conditions may cause damage to your TV.
• This TV is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the TV by a person responsible for their safety.
• Children should be supervised to ensure that they do not play with the TV.
• Children may not recognise dangers. The swallowing of batteries can be fatal. Keep batteries always out of reach of small children. If a battery is swallowed, seek immediate medical attention.
• To avoid danger of suffocation, keep plastic bags out of th reach of babies, children and domestic animals. out of reach of children, there is a risk of suffocation

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.

Wall Mounting Warnings
• Read the instructions before mounting   your TV on the wall.
•   The wall mount kit is optional. You can obtain from your local dealer or online retailer if not supplied with your TV.
•   Do not install the TV on a ceiling or on an inclined wall.
•   Use the specified wall mounting screws and other accessories.
•   Tighten the wall mounting screws firmly to prevent the TV from falling. Do not over-tighten the screws.

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):
1. 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.
2. Time displays.
3. Teletext: Do not view a static page for long period of time
4. TV/DVD menus: e.g. listings of DVD disc content.
5. 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 in 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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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⚠️ Safety information

Important - Please read these instructions fully before installing or operating

Batteries

CAUTION: Risk of explosion if the battery is replaced by an incorrect type.

• Do not dispose of batteries in a fire. Danger of explosion.
• Do not try to recharge non rechargeable batteries.
• If you will not use the TV for a long time, remove the batteries and store the TV in a dry and dust free place.
• Improper use of batteries may cause an explosion or leakage. If the batteries have leaked, use gloves and clean the remote control thoroughly with a dry cloth.
• This TV or the accessories supplied with the TV may contain a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
• Do not ingest the battery, Chemical Burn Hazard.
• If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
• Keep new and used batteries away from children.
• If the battery compartment does not close securely, stop using the product and keep it away from children.
• 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 (alkaline and zinc-carbon etc.) 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 and UKCA Statements:

Hereby, Argos declares that this LED TV is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU and UK Radio Equipment Regulations 2017.

The full text of the EU and UKCA declarations of conformity is available by following the link:
https://www.argos-support.co.uk/

This equipment may be operated in the UK and all EU countries.

Wi-Fi max transmitter power:

100 mW at 2.412 GHz – 2.472 GHz

100 mW at 5,150 GHz – 5,350 GHz (UHD models only)

100 mW at 5,470 GHz – 5,725 GHz (UHD models only)

Bluetooth max transmitter power:

10 mW at 2.402 GHz – 2.480 GHz

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**

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⚠️ Safety information

Important - Please read these instructions fully before installing or operating

HDMI™

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DVB Digital Video Broadcasting

The DVB logo is the registered trademark of the Digital Video Broadcasting (DVB) project.

FreeviewPlay
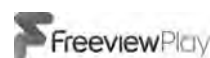
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SAORVIEW is a registered trademark owned by RTÉ.

Dolby Audio

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androidtv

▶ YouTube

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Google Assistant

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If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Getting to know your TV 2
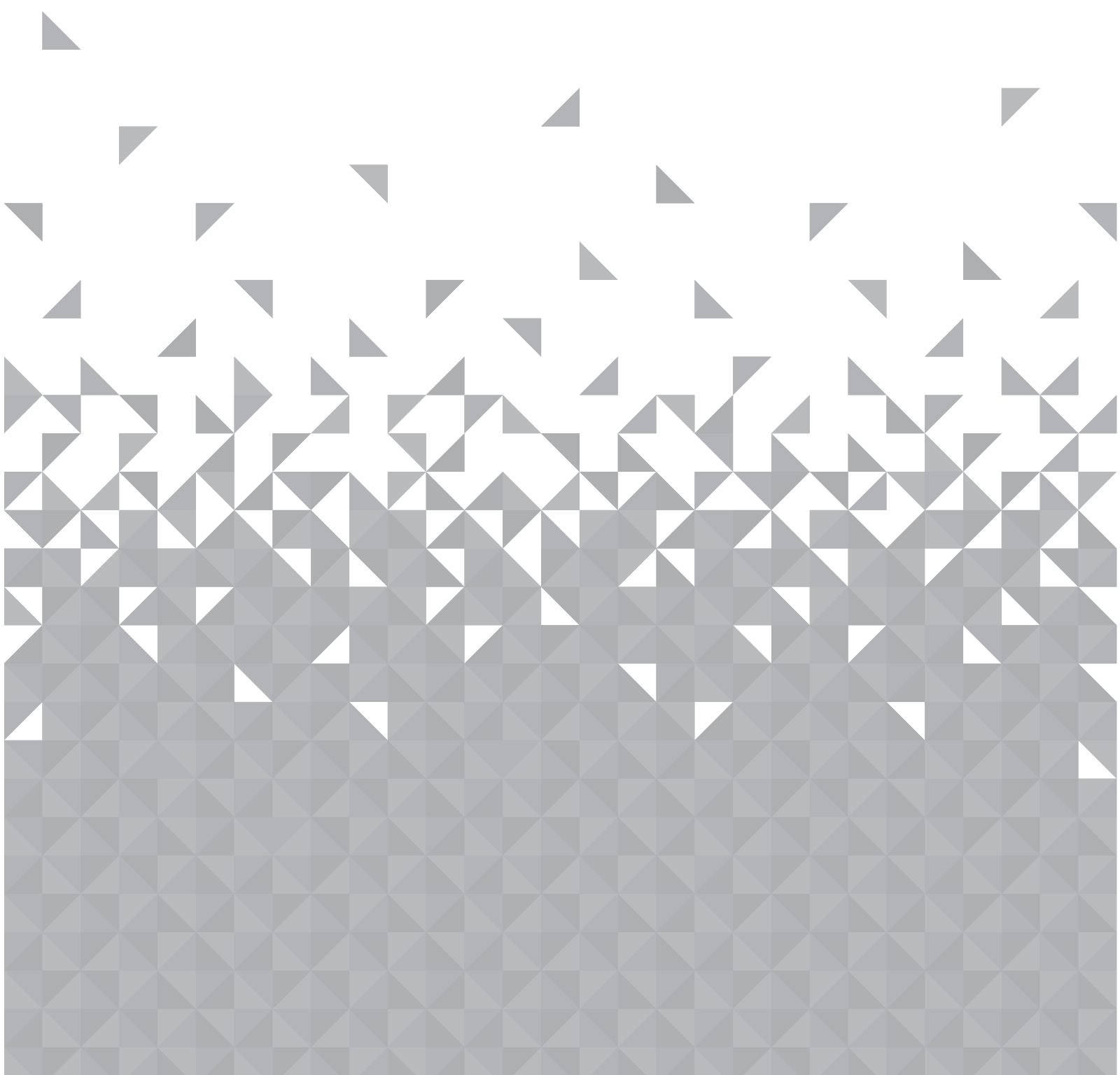
Getting to know your TV

You'll be up and running in no time

Introduction

Your new Bush 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 Bush Android set, you will require an **aerial** and **internet connection**.

Use these Operating Instructions for guidance on how to use your Bush 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.

> You may experience delays or slow responses during 24 hours of initial installation. Your Bush product needs to gather the latest system security patches and application updates, this will all happen in the background whilst you begin watching TV immediately. The length of time depends on broadband connection and speed plus the size of any new downloaded content you choose.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting to know your TV

You'll be up and running in no time

What's in the box

1 x User guide

User Guide
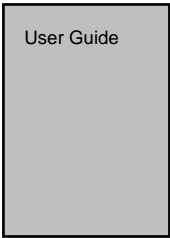
1 x Remote control & 2 x AAA batteries

1 x Quick start guide

QSG
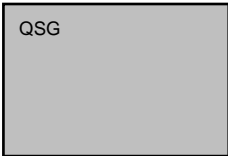
1 x Stand installation pack

1 x L (left)   **1 x R (right)**

4 x
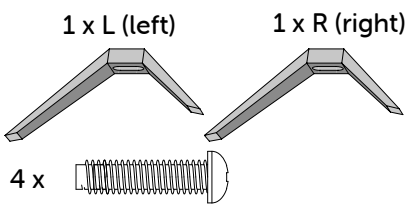
1 x Warranty registration guide

WRG

1 x TV

Note: Please save your box/packaging as you will need this in the event of warranty/service repair or support. We are unable to carry out warranty/service if you are unable to package it correctly. The safest way to package your item in the event of warranty/service repair is in it's original box/packaging.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Getting to know your TV
You'll be up and running in no time

Stand installation

To complete the stand installation, you will require a cross head screw driver and the supplied screws.
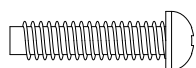
4 x M(*4x16*)
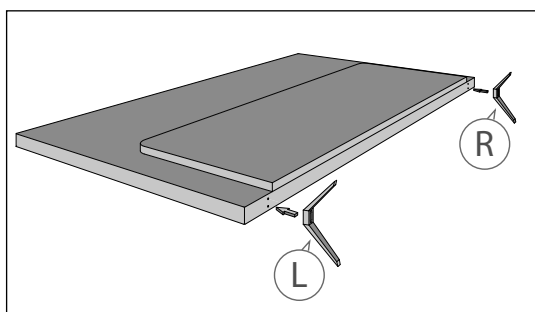
fig 1) Place the TV set on a flat and clean surface with the panel facing downwards to avoid damage, then fix the stand feet shown.
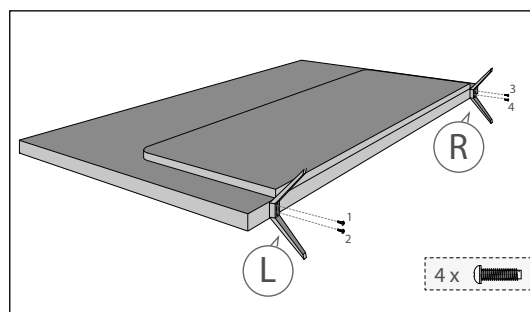
fig 2) Secure the stand feet to the underside of the TV set using the screws provided.

Detaching the stand

To detach the stand, place the TV set on a flat and clean surface with the panel facing downwards to avoid damage. Please remove the **4** screws highlighted then remove the stand feet from the rear of the TV set.
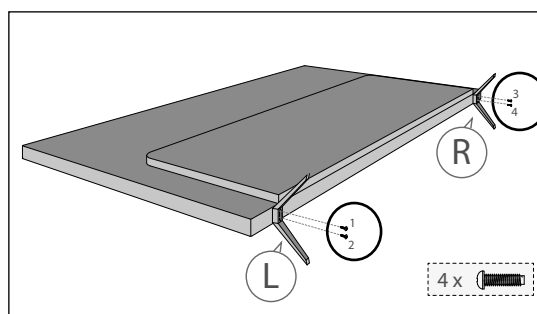
Helpful advice for first time stand installation
a) Ensure the cross head screw driver tip fits correctly into the head of the screw and that it is not too big or small.
b) Screw in all screws individually and partially before tightening all of the screws fully.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting to know your TV

You'll be up and running in no time

Securing the TV using anti-tip straps

For maximum security in the home, when using a TV with its stand, it is advised that anti-tip straps should be fitted. These are available from supermarkets and online retailers and are an easy, inexpensive and effective way of ensuring your TV stays safely upright. Anti-tip straps are not included with the TV. Straps are designed to be attached to the rear of the TV and then tethered to the wall or the furniture the TV is stood on and are fitted as follows.

NOTE: Please ensure that children do not climb on the TV set.

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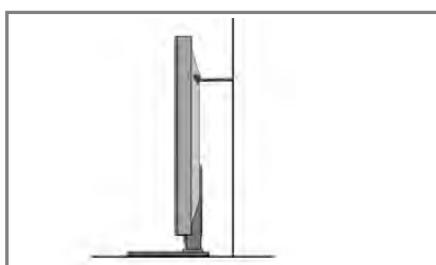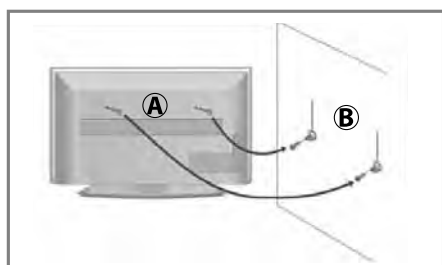
The Royal Society for the Prevention of Accidents is urging people to take care with flat-screen televisions. RoSPA stated in 2010 that "Toddlers are particularly at risk of pulling flat-screen televisions on to themselves. They are unsteady on their feet and are attracted by colourful television images."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

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Getting to know your TV   BUSH   17

Getting to know your TV

You'll be up and running in no time

Wall Mounting

IMPORTANT: Before drilling any holes in the wall, ensure you are not drilling where there could be any electric 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.

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 internal parts.
For optimum viewing, if wall mounting the TV higher than eye level, the TV should be tilted downwards so that the TV's screen is 'face on'. See fig 1 and 2 below.

fig 1
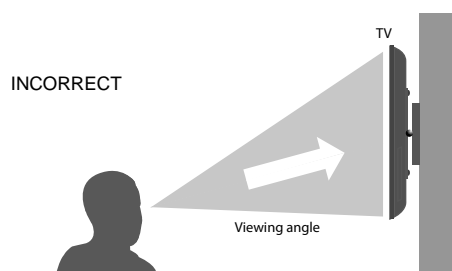
fig 2
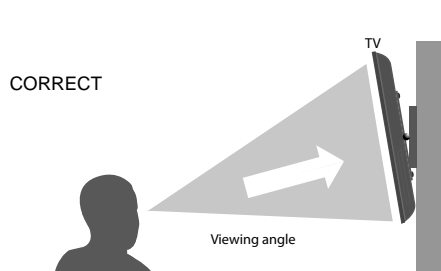
For VESA wall mounting information please refer to the Technical Specification page.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting to know your TV

You'll be up and running in no time

TV Control Stick

The TV control stick is located on the back of the TV, on the right hand side. 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.

TV Control Stick Operation

While TV is in standby mode:

1. Press the centre of the control stick once - Power 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

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. **(Calls are charged at the standard rate of your network provider).**

Getting to know your TV

You'll be up and running in no time

Remote Control Functions
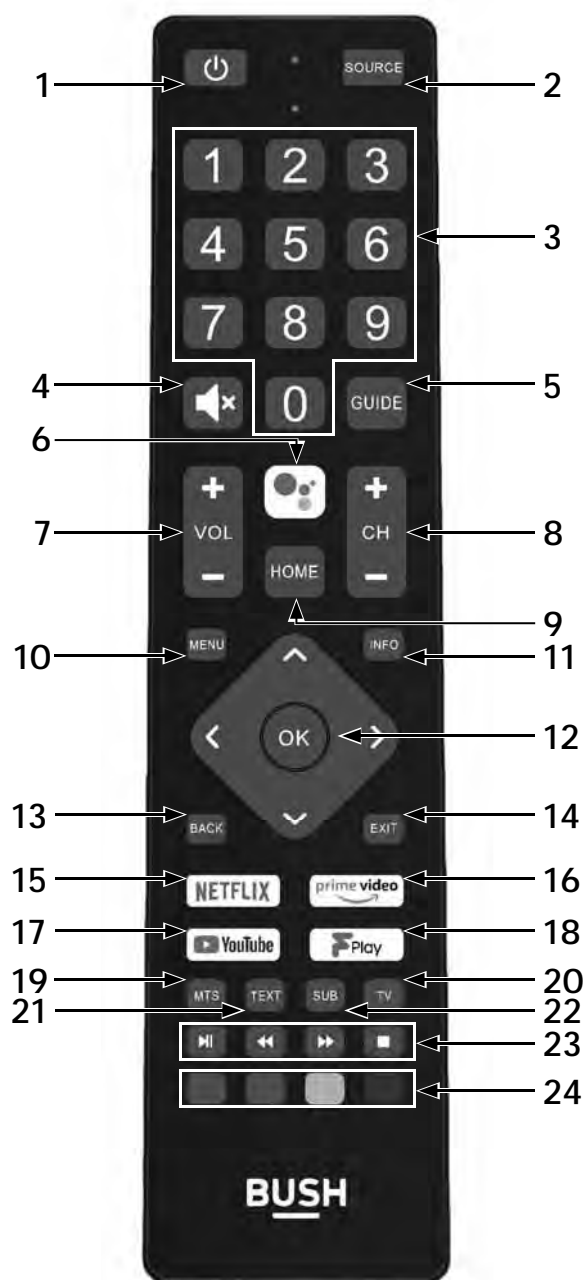
1. **STANDBY** - Switch on the TV when in standby or vice versa. By long pressing of this button, the set will display a menu offering power down option to energy saving standby mode

2. **SOURCE** - To display the input/source menu.

3. **NUMBER BUTTONS** - 0 to 9

4. **MUTE** - To mute the current sound level

5. **TV GUIDE** - Brings up the Program Guide

6. **The Google Assistant** - Use your voice to access entertainment, control smart devices, obtain answers on screen, and more.

7. **VOL (+/-)** - To increase/decrease the sound level.

8. **CH (+/-)** - To increase or decrease the channel being watched.

9. **HOME** – Display the TV Home Menu.

10. **MENU** - Display LIVE TV menu. This button works only in sources (TV, HDMI, Component, etc.). It will not work in the Home Menu.

11. **INFO** - Press once for now/next channel information.

12. **(▲/▼/◀/▼/ OK)** - Allows you to navigate the on-screen menus and adjust the system settings to your preference.

13. **BACK** - To go back a previous step.

14. **EXIT** - To exit all menus.

15. **NETFLIX** - Access the Netflix App.

16. **Prime video** - Access the Prime video App.

17. **YouTube** - Access the YouTube App.

18. **Freeview Play** - Access the Freeview Play app.

19. **MTS** – Opens audio track menu.

20. **TV** - To switch to Live TV.

21. **TEXT** - To enter/exit teletext.

22. **SUB** - To switch the dialogue at the bottom of the screen (on/off).

23.
   ▶❙ - To play/pause media
   ◀◀ - To play in fast rewind mode
   ▶▶ - To play in fast forward mode
   ■ - To stop the playback

24. **COLOUR BUTTONS** - Execute corresponding function at that time

Note: When the remote control is in IR (infra-red) mode, the LED indicator will flash red whenever a button is pressed. While in Bluetooth mode it will flash green.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

Getting to know your TV

You'll be up and running in no time

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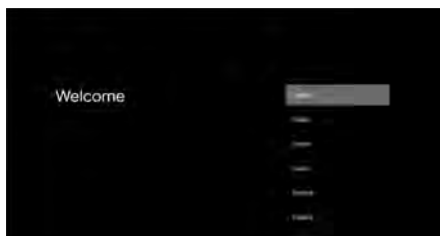
1. When the set first turns on, you will be requested to select your preferred on-screen display language. This will set the language in which the menus and associated information is displayed in. Should you wish to do so, this can be changed later in the Device Preferences menu.

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:

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.

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

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Getting to know your TV

You'll be up and running in no time

8. 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: If your set is not supplied with a bluetooth remote, then it will not pair with the set. If this is the case, this step has to be skipped.

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. You will now be requested to enter a PIN. This is four numbers which are entered using the **[NUMBER]** buttons on the remote control. Once the PIN is entered you will be requested to confirm it. This number is required for access to some of the functions on the set, for example setting parental control.

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.

12. Chromecast - Turn on or off

13. 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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting to know your TV

You'll be up and running in no time

While your set is tuning in, the display will advise progress and the number of digital channels received.

14. Tuning of the set is now complete.

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

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.

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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Getting to know your TV   BUSH   23

Getting to know your TV

You'll be up and running in no time

Inputs and Outputs

HA42U5232MEKB

Rear
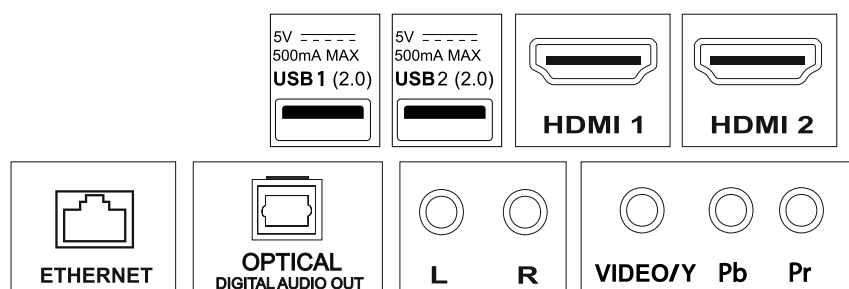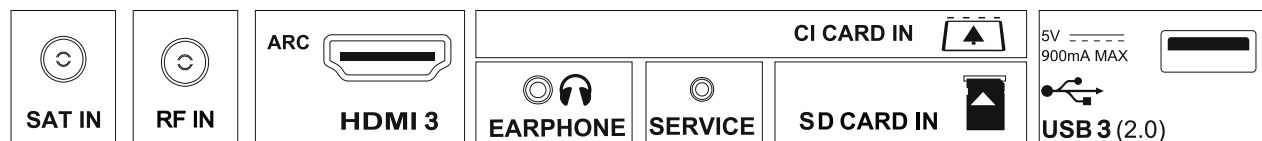
5V ⎓ 500mA MAX **USB 1** (2.0)	5V ⎓ 500mA MAX **USB 2** (2.0)	**HDMI 1**	**HDMI 2**

ETHERNET	**OPTICAL** **DIGITAL AUDIO OUT**	**L**　　**R**	**VIDEO/Y**　**Pb**　**Pr**	

Side

SAT IN	**RF IN**	ARC **HDMI 3**	**EARPHONE**	**SERVICE**	CI CARD IN **SD CARD IN**	5V ⎓ 900mA MAX **USB 3** (2.0)

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

24　　**BUSH**　　　Getting to know your TV
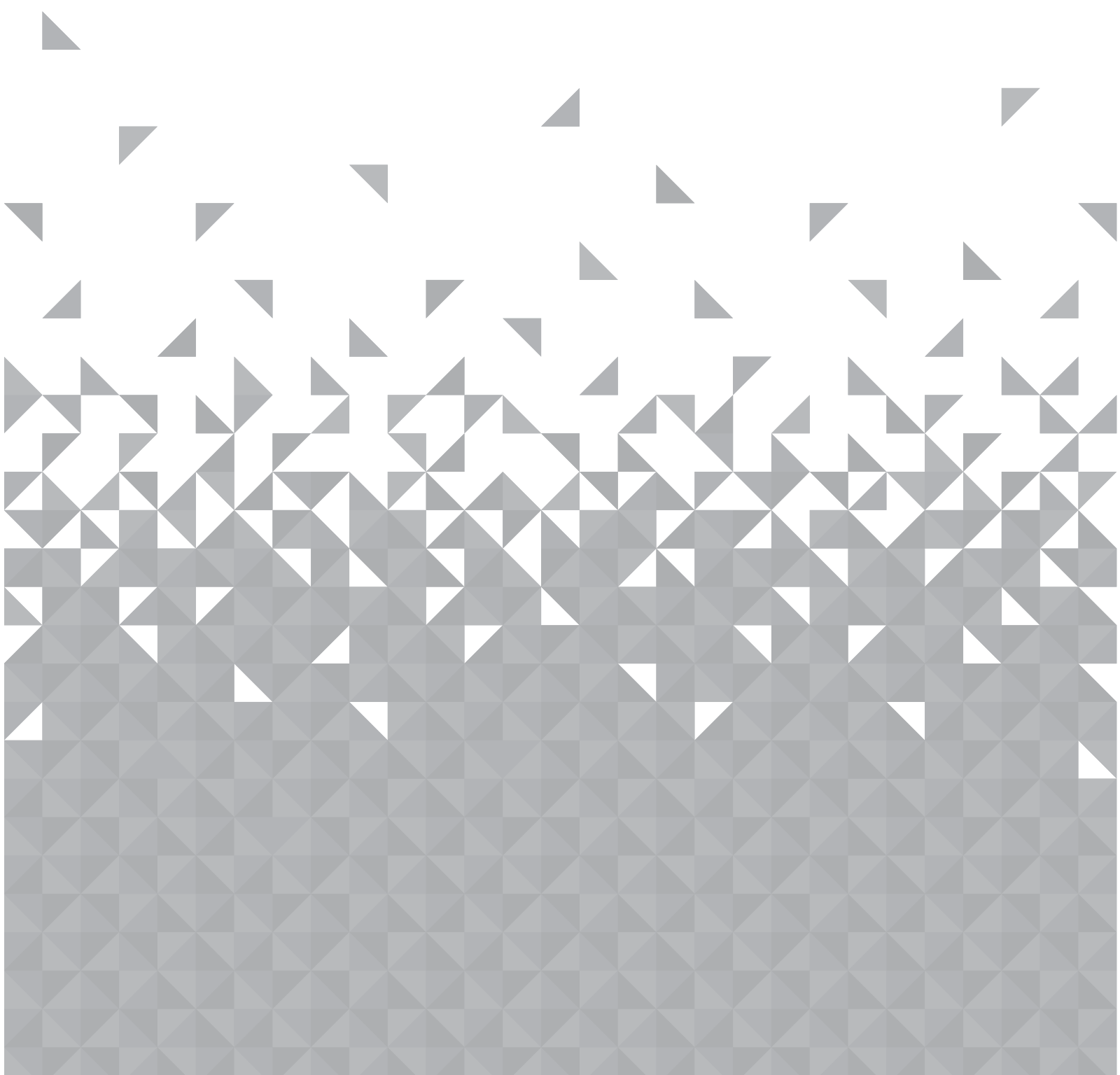
Connections 3

Connections
Bringing it all together

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.
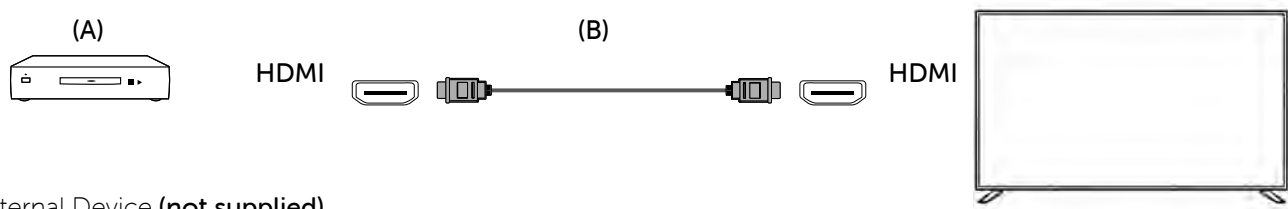
(A) External Device **(not supplied).**
(B) HDMI cable **(not supplied)**

> **Note**: We recommend authorised Premium High-Speed HDMI Cable(s) 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 televisions 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 (Page 26).

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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Connections

Bringing it all together

Component Video Connection

If your external device has component video jacks/sockets, connect them to the television using a YPbPr cable and an RCA audio cable as shown below.

YPbPr and Component Source

Source Out   (B)   TV In
L
R
(A)
(C)
Y / Video
Pb
Pr
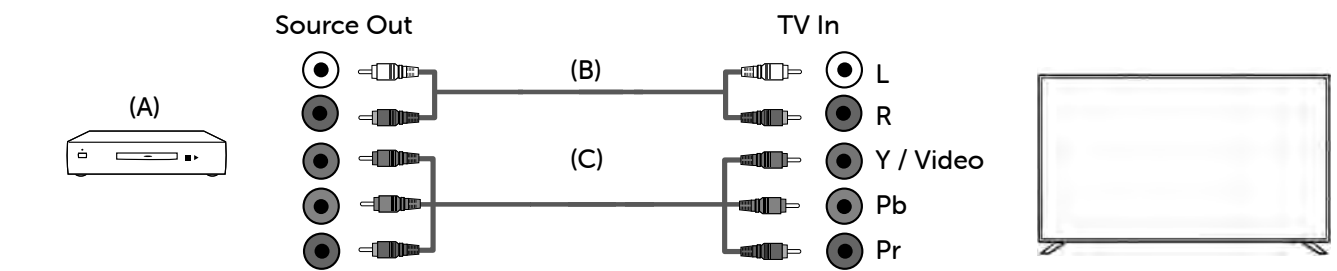
(A) External Device **(not supplied).**
**(B)** RCA Audio cable **(not supplied).**
(C) Component video cable **(not supplied).**

Composite Video Connection

If your external device has composite jacks/sockets, connect them to the television using a composite video/audio cable as shown below.

RCA (phono) Cables and Composite Source

Source Out   TV In
L   (B)   L
(A)   R   R
Video CVBS   Y / Video
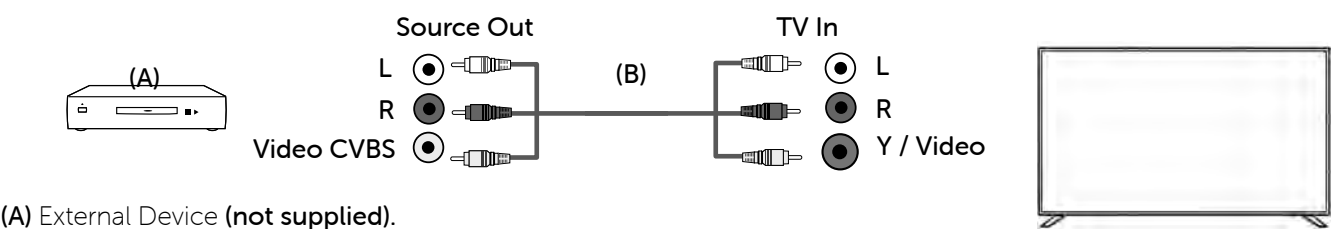
(A) External Device **(not supplied).**
(B) Composite video/audio cable **(not supplied).**

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

Connections
Bringing it all together

Connecting External Audio Devices

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. There are three ways of doing this.

1. 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 with the text "ARC"

(A) AV Receiver or Soundbar **(not supplied)**.
(B) HDMI cable **(not supplied)**.
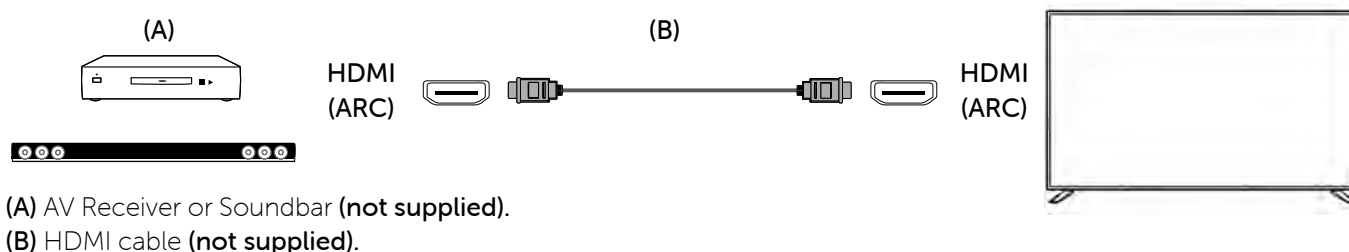
Note: We recommend authorised Premium High-Speed HDMI Cable(s) bearing the HDMI logo.

2. Optical Connection

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 **(not supplied)**.
(B) Audio Optical Cable **(not supplied)**.
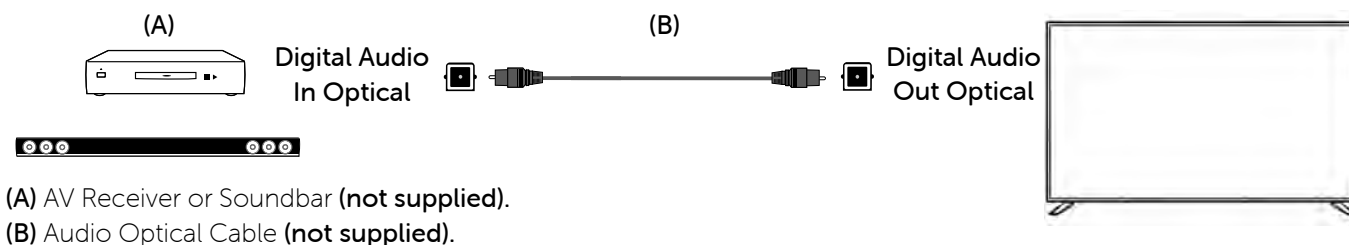
3. RCA Analogue Audio Cable

Connect to the audio system's audio input terminal.

(A) External Device or Soundbar **(not supplied)**.
(B) Audio cable **(not supplied)**.
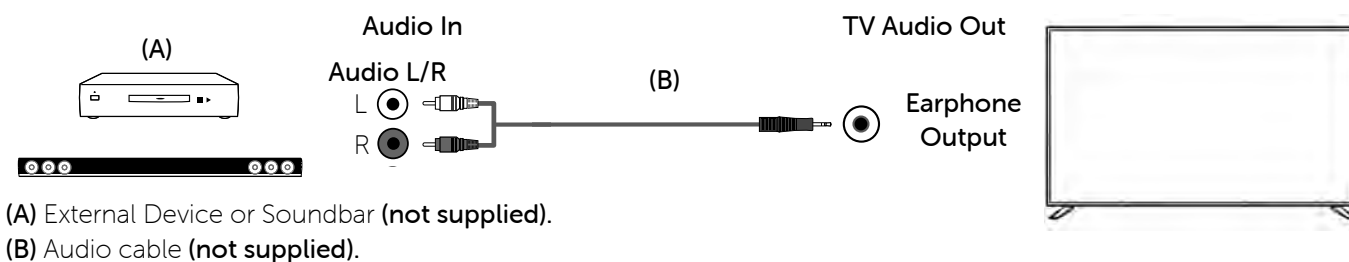
Note: The output audio level is dependent upon the headphone level. The volume level on the connected audio system must be turned up.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

28   **BUSH**   Connections

Connections

Bringing it all together

Connecting Headphones

You can connect wired or Bluetooth headphones to this set.

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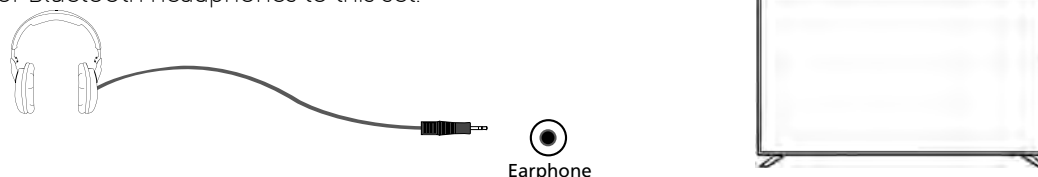
When *wired headphones* are connected to the 3.5mm jack socket on the rear of the set, the internal speakers will cut out. The volume of the sound which comes from the headphones is controlled via the remote control using the **[VOL+]** and **[VOL-]** buttons.

When a *Bluetooth device* is paired with the set, the internal speakers will cut out. The volume of the sound that which 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.

USB Devices (wired)

You can connect wired USB devices such 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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Connections   **BUSH**   29

Connections
Bringing it all together

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 include 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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

30   BUSH   Connections

Standard features 4
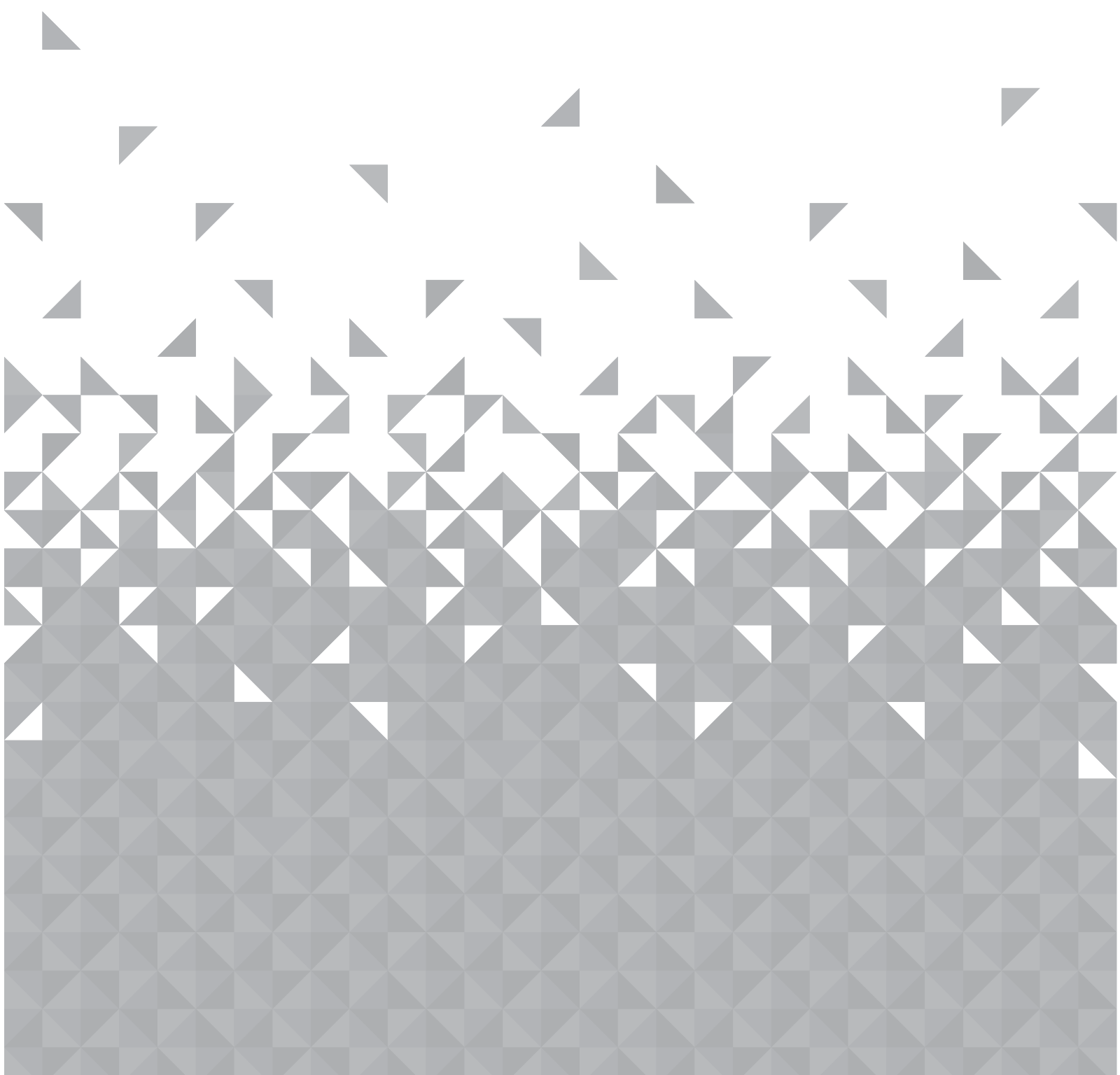
Standard features

Simple everyday use

The Home Page

The Home Page screen is where all the action starts and the default viewing screen for your television. It will appear after the first-time installation process.
From the Home Page, you can search for content and select recommendations, apps, and go into the various TV settings to customise your viewing experience.

Wherever you end up, you can always return home by pressing the **[HOME]** button on your remote control.

It's the one that looks like this: HOME

The picture below shows a typical Home Page

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

32   **BUSH**   Standard features
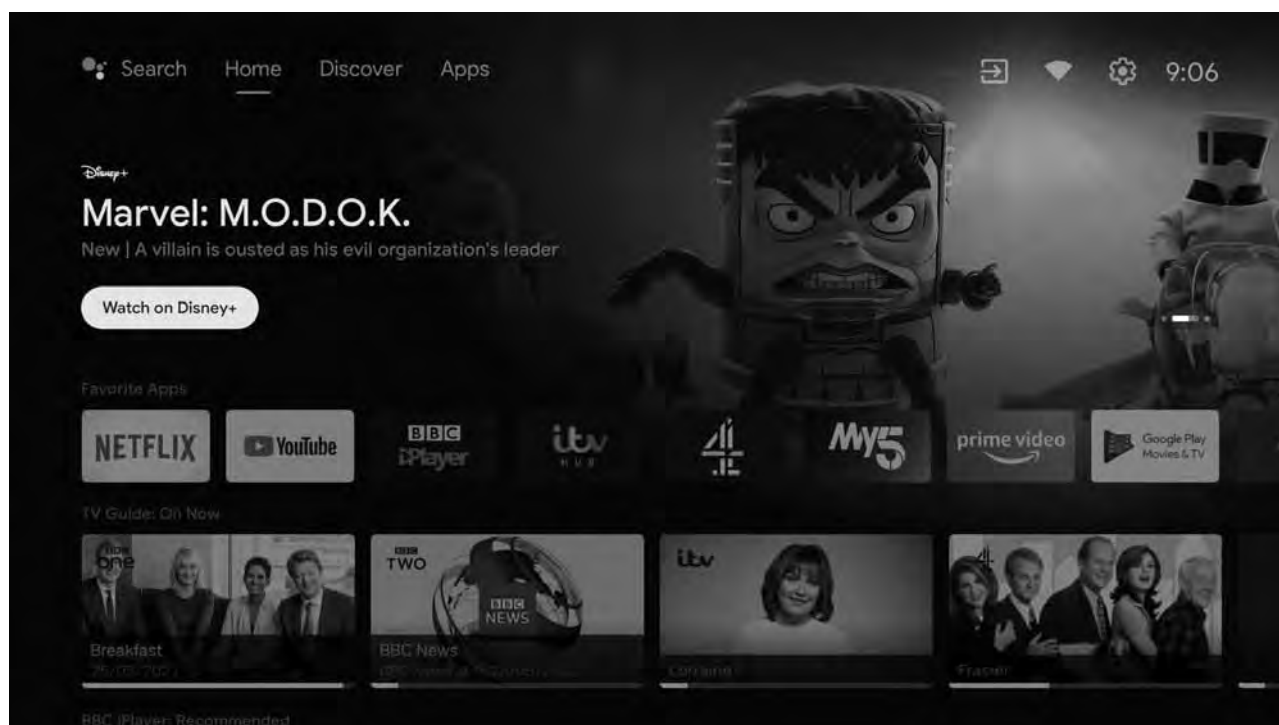
Standard features

Simple everyday use

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. You can navigate the home screen using these buttons.

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

[ARROW BUTTONS] : Navigate around the options on the screen.
[OK] : Selects the option highlighted or selected.
[BACK] : Takes you one step back in the menu.
[EXIT] : Exits from the menu and returns to the source or Home Page.
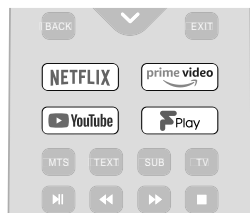
You can easily reach pre-installed, ready to play apps with the one-touch buttons on the remote. Getting to your favourite shows has never been easier.

The Google Assistant allows voice commands to quickly find and play your favourite shows, obtain answers to questions and control your home via your connected devices. If you experience issues with third party devices, it is suggested that you contact the provider of the device for support.
Remote controls with the Google Assistant functionality have a Google Assistant button and a built-in microphone to allow voice communication with the TV. To enable Google Assistant, follow the instructions below:

Press the ⦿ button on your remote control. The LED indicator on the remote control will illuminate.
Wait for the on-screen message from the Google Assistant, then speak clearly into the microphone.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Standard features   BUSH   33
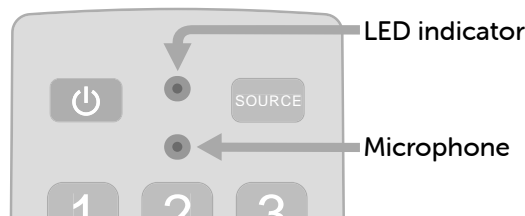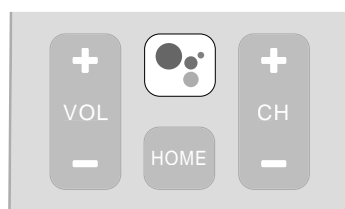
Standard features
Simple everyday use

On-Screen Keyboard

There is a pre-installed on-screen keyboard app in your set which will appear whenever text is expected to be entered by the user. So, for example, when you need to enter your Wi-Fi password or a 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]**.

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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

34   **BUSH**   Standard features

Advanced features

5
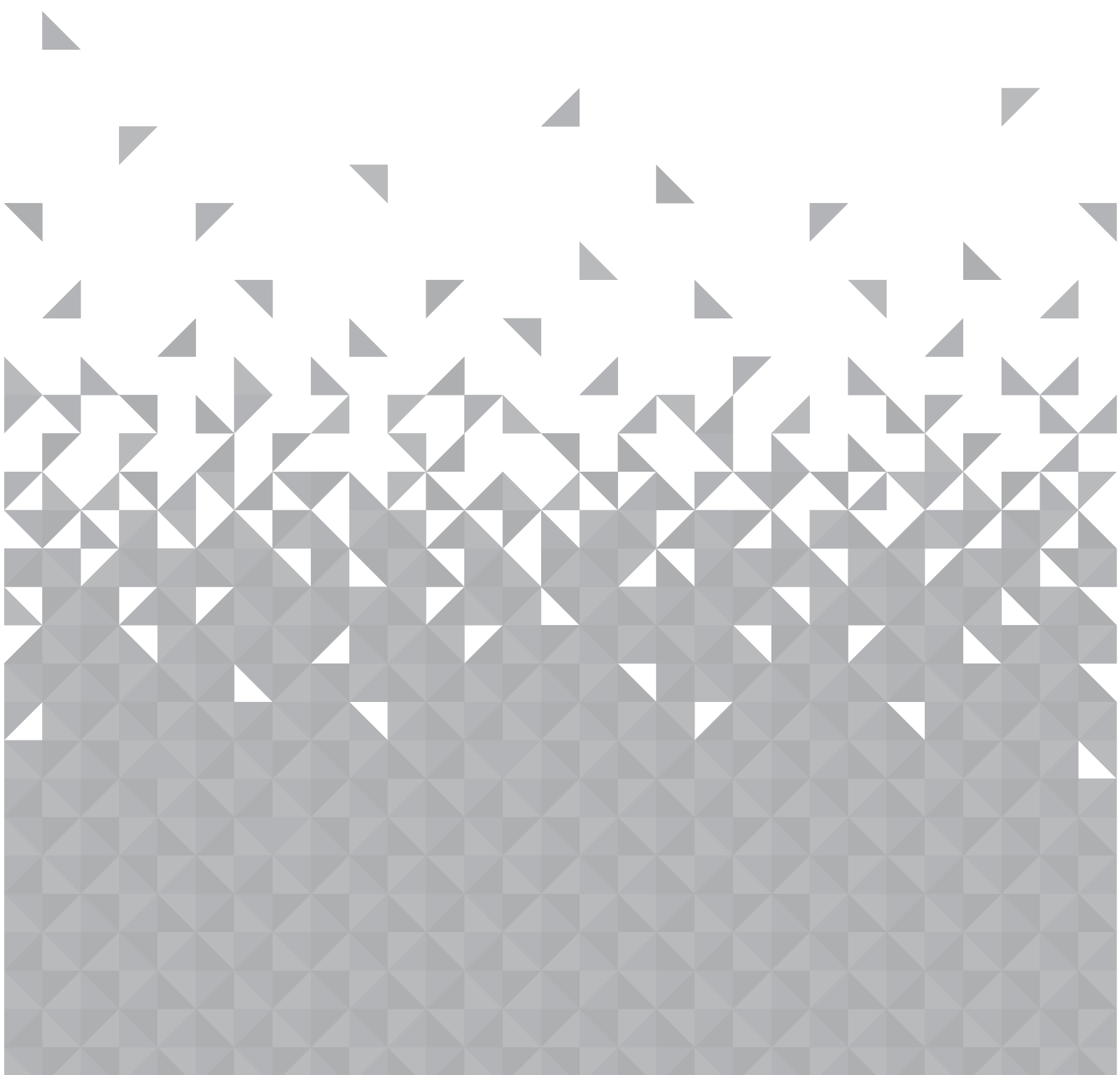
Advanced features

Getting the most from your TV

Home page Explained

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.

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.

Setting up the remote for the Google Assistant

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:

Turn the set on.

Go to Settings > Remotes and Accessories and then 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.
Press **[OK]** on the remote control.

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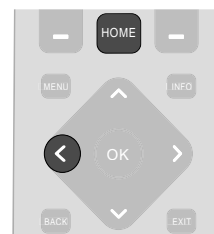
> **Note**: If the   button is pressed on the remote control and it is not paired, the pairing screen will appear.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

36   **BUSH**   Advanced features

Advanced features

Getting the most from your TV

Apps and Favourite Apps

Apps are shown in section **B** of the Home Page. 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.
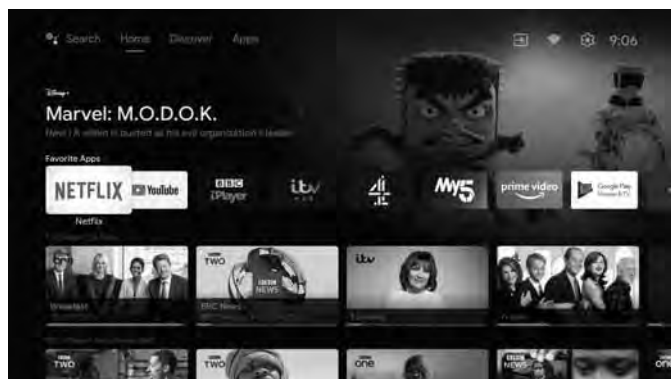
Moving or Removing an App on the Favourite Bar

Select the app you would like to move or remove from the favourites section.

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

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

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 because 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 appear on the screen.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Advanced features   BUSH   37

Advanced features

Getting the most from your TV

App Management

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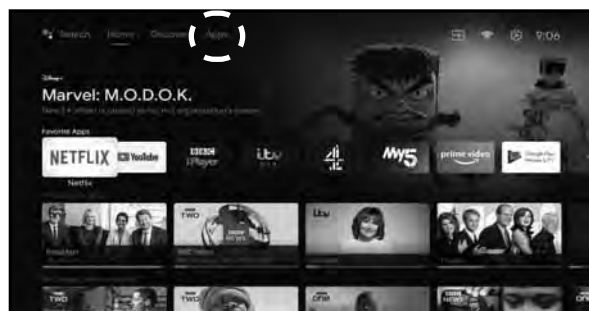
It is possible to open, move, add to favourites, find info and uninstall an app from this menu. Follow the instructions below to carry out these functions:

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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Advanced features

Getting the most from your TV

Installing apps from the Google Play Store

You can install apps from the Google Play Store to your television, similar to smart phones and tablets. You can only install apps that are compatible with this television, however. They may differ from the apps shown on smart phones/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 home page.

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.

> **Notes**: 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 next chapter Moving apps to a USB memory device or SD card.

Moving apps to a USB memory or SD Card

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

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**: Some apps cannot be moved to a USB memory device/SD card as they are fundamental to the operation of the set.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Advanced features   **BUSH**   39

Advanced features
Getting the most from your TV

Formatting Memory Device

In order to use a USB or SD card memory device, you will need to check the device is formatted correctly.

Insert the SD card or USB memory device into the television. The SD card input can be found on the side inputs. Press the **[HOME]** button, then select: Settings > Device Preferences > Storage > the desired USB memory device or SD card. Format the selected memory device as an internal storage device.

Note: Your Android TV formats the USB memory device or SD card into a proprietary format. When inserting the USB memory device or 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 or SD card.

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

When you format a USB memory device or 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 or SD card for exclusive use with the television. Therefore, you may be unable to use the USB memory device or SD card with a computer, etc.

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

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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Advanced features

Getting the most from your TV

Play Next

Play Next functionality allows you to queue programs from various venders such as Youtube or Freeview Play.
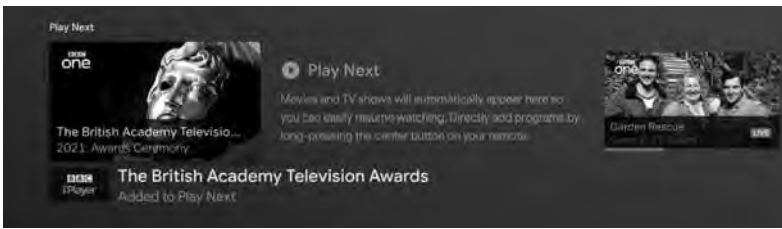
Play Next option can be selected when in a streaming app such as You Tube. To do this:

Select the item in the Channels list on the Home Page to be added to the Play Next list.

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

The Play Next option appears.

Select "Add to Play Next".

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.
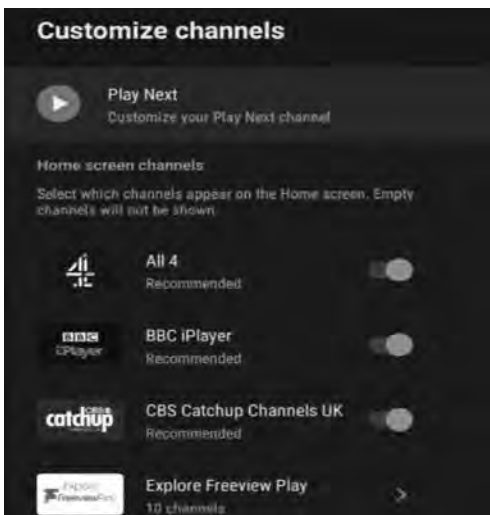
If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Channels - Customised Home Screen

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.
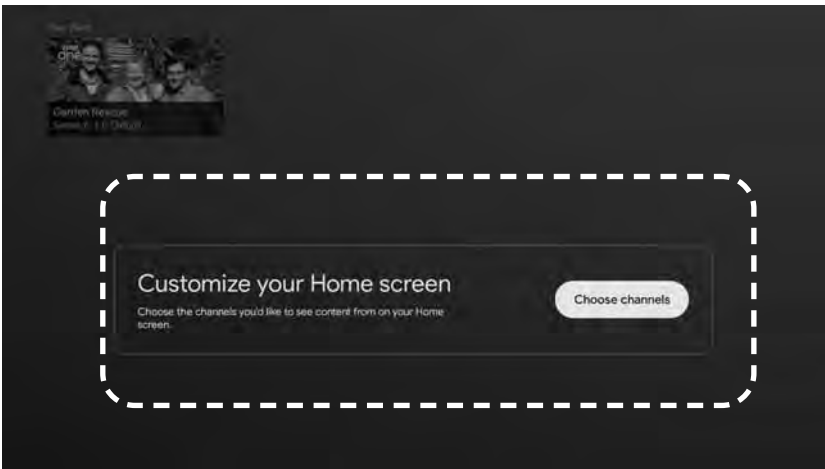
Moving a Channel

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

Select the channels row.

Press the **[LEFT]** button.

Select the move button.

Press **[OK]**.

Use the **[UP/DOWN]** buttons to move to the desired position.

Use the **[RIGHT]** button to exit from the operation.

> **Note**: The position of some channel cannot be moved.

Deleting a Channel

Select the channel row.

Press the **[LEFT]** button.

Select the "Remove" icon.

Press **[OK]**.
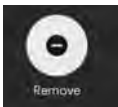
Channel is removed from the Home Page list.

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

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Discover

The Discover tab on the Home page allows you view personalised recommendations from your streaming services based on what you've watched and what interests you. to fully use this service, you will need to sign in to your Google account. If you have not already signed in, you can do so from this page by choosing "Get started".
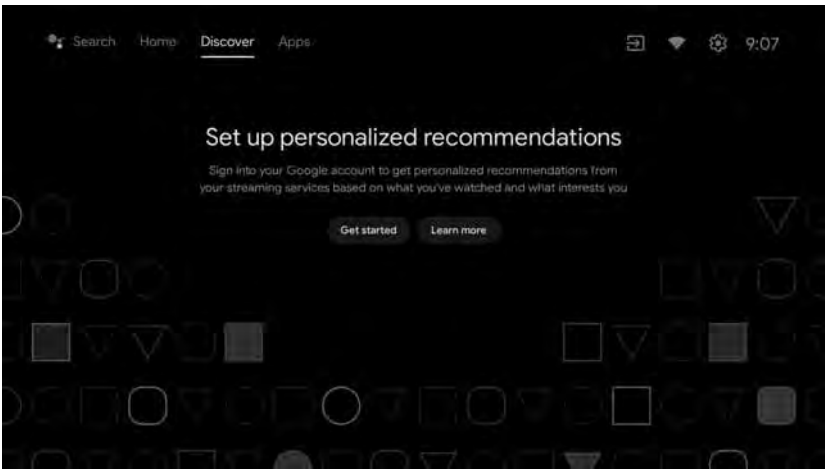
The layout of the Discover tab is similar to the main home page but the overall content is cutomised to your previous viewing habits. You will see "channels" but these are not as editable as those on the home screen.

They are normally sorted by genre, but as each persons 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 on how to do this.

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Television Options Overview

While in the TV Options menu, you can adjust and change the settings applicable to the various input sources related to the television mode.

Options are:

Source – Change the picture (input) on your television.

Picture Mode – Change the picture mode.

Display Mode – Change the display mode (aspect ratio) of the picture.

Speakers – 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.
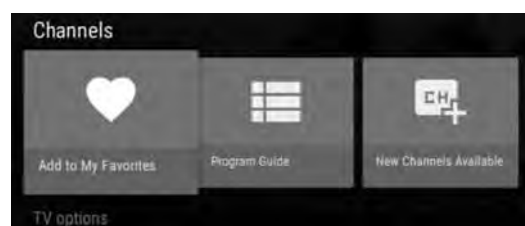
Add to My Favourites - Add current channel to favourites.

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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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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.

Inputs
⊙ TV
Composite
Component
HDMI 1
HDMI 2
HDMI 3
HDMI 4

Note: From the Home Page (see page 30), you can go directly to the DTV source simply by pressing the numbered buttons **[1-9 only]** on the remote control.
So, pressing the number **[1]** whilst on the Home Page will switch the set to channel 1. Your TV will need to be tuned in for this function to work.
Alternatively, you can press the **[TV]** button.

Picture Mode

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

Picture Mode
⊙ User
○ Standard
○ Vivid
○ Sport
○ Movie
○ Game
○ Energy Saving
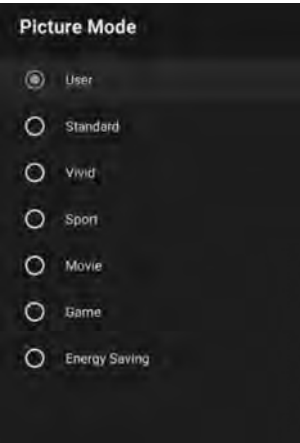
This menu provides options to modify picture quality and the following modes are available:

User - Allows you to change the picture settings to your personal preference. These settings are saved automatically.

Standard - Standard settings.

Vivid - Enhances picture saturation and sharpness.

Sport - Optimise picture quality for viewing sports.

Movie - Picture has less colour and is darker.

Game - Recommended settings for gaming. The television will turn off all picture post processing functions to achieve minimal input delay.

Energy Saving - Power Saving mode, which reduces the energy used by up 20% (by reducing the power to the LED/LCD panel). In this mode, the brightness of the picture may be reduced. This is the default setting on your television.

Note: Depending on television model, some picture mode options may not be available. Settings will only be stored in the User mode.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Display Mode

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

This menu provides options to modify the picture aspect ratio and the following modes are available:

Picture Format

- ● Automatic
- ○ Full
- ○ Wide screen
- ○ Super zoom
- ○ Unscaled
- ○ 4:3
- ○ Movie expand 14:9
- ○ Movie expand 16:9

Automatic - Automatically displays the best picture format so the picture is in the correct position. Black lines may appear at the top/bottom and/or sides.

Full - Displays a picture in the full screen mode. 16:9 signal will be displayed in original proportion. Other picture formats will be stretched to fill the screen.

Wide Screen - Displays a 16:9 picture that is stretched horizontally and vertically.

Super Zoom - Displays a 4:3 picture at a 16:9 size; the picture is stretched horizontally and vertically and its left and right edges are enlarged. This crops out some of the top and bottom of the picture.

Unscaled - Displays a picture in its original resolution in the middle of screen. If the picture has lower resolution than the television, there will be black bars on all four sides of the picture.

4:3 - Displays a 16:9 picture at a 4:3 size; the picture is shortened horizontally. Sidebars appear on both edges of the screen.

Movie Expand 14:9 - Displays a 4:3 picture at a 14:9 size; the picture is stretched horizontally and vertically. This crops out some of the top and bottom of the picture. Sidebars appear on both edges of the screen.

Movie Expand 16:9 - Displays a 4:3 picture at a 16:9 size; the picture is stretched horizontally and vertically. This crops out some of the top and bottom of the picture.

Note: Depending on the source selected, the aspect ratio offered may differ.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.
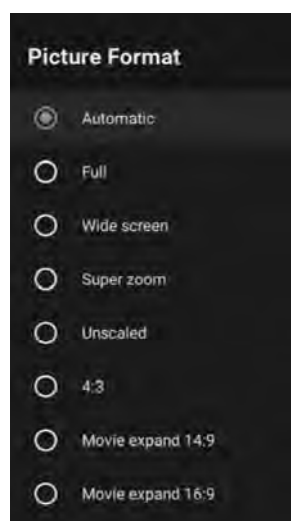
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Speakers

To enter the Speakers menu, press the **[SOURCE]** button and select TV. Then press the **[MENU]** button and select Speakers using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.
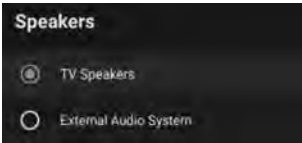
Switch between speakers:

TV speakers - Audio will come from the television.

External Audio System - Audio will come from the external audio device (e.g. soundbar, AV receiver) when connected via one of the digital audio outputs.

Note: The volume level at which your set comes on at is the same level it was when turned off.

Power

To enter the Power menu, press the **[SOURCE]** button and select TV. Then press the **[MENU]** button and select Power using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.
In this menu you can change the settings related to power consumption and the following modes are available:

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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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CI Card

To enter the CI Card menu, press the **[SOURCE]** 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.

Note: This function is not currently used in the UK and ROI.

Advanced Options

To enter the Advanced Options menu, press the **[SOURCE]** button and select TV. Then press the **[MENU]** button and select Advanced Options using the **[LEFT/RIGHT ARROW]** buttons and pressing **[OK]** when selected.
In this menu you can change various settings and the following modes are available:

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.

Interactive 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).

Auto Sleep - 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.
Options are: Never / 4 / 6 / 8 hours. The default setting is 4 hours.

System Information - Shows system information.

Version Info - Software version of the set.

Note: In the case of poor signal reception, the quality and strength of the signal can be checked here. Both of these must be at least 90% to ensure reliable reception.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting the most from your TV

Settings

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

Within the settings menu it is possible to control a large number of the set functions, including those listed below:

Settings

Set your device name
Use this name when casting photos, videos, and more from your phone ✕

General Settings

Network & Internet
No network connected

Channel

Accounts & Sign In
No accounts

Apps

Device Preferences

Remotes & Accessories
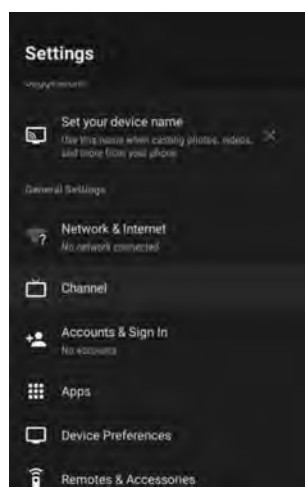
1. Device Name.
2. Set up your network and internet connections.
3. Tune in your set.
4. Change or update your accounts and sign-in details.
5. Control the apps.
6. Set device preferences.
7. Set up remotes and accessories.

Note: These settings are the same as those in the Home Page Settings menu.

Network & Internet

Network & Internet control and access is located in the Settings menu. To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Network & Internet. When selected, the options shown below are available:

Wi-Fi - Allows you to enable/disable the built-in Wi-Fi receiver.

See All - Shows the full list of available Wi-Fi networks.

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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Getting the most from your TV

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 an 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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Channel

This option allows you to tune in your set to the incoming RF or Satellite signal. You can configure the settings related to the type of broadcast being received. To enter this menu option, select the ⚫ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Channel. When selected, the options shown below are available:

There are three types of signal which can be tuned into, reception of these are dependent upon the signals being received by your set and the country you are located in:

Digital Terrestrial Television – Also known as DVB-T1 and/or DVB-T2.
Cable Television – Also known as DVB-C.
Satellite Television – Also know as DVB-S1 and/or DVB-S2.

Options in the channel menu are:
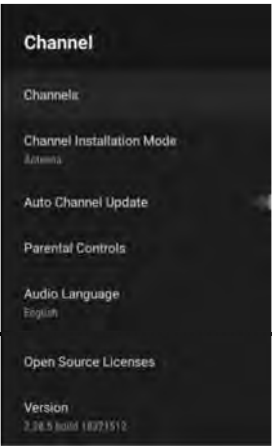
Channels - Tune and control channels.

Channel Installation Mode - Terrestrial, cable or satellite.

Auto Channel Update - Update channels automatically, on/off.

Channel Update Message - Advise when channel update is available, on/off.

Parental Controls - Set parental levels.

Audio Language - Set the audio language track.

Open Source Licences - View the licences online.

Version - Software version.

Before tuning in your set, you will need to select the type of signal being received to enable tuning to operate correctly. Enter the Channel Installation Mode to choose Antenna (terrestrial digital television), Cable or Satellite.

Depending upon which option is selected will change the options available in the Channels menu as shown in the following pages.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Getting the most from your TV

DTV (Digital Television)

DTV mode relates to Freeview (UK) and Saorview (in ROI). You can only tune into one type of service and this depends upon the country which you are in. All models for the UK have Freeview Play built-in and this will be available once the set has been tuned in and an internet connection is made.

While in the DTV mode, the following options will be available:

Channel Scan - Allows you to retune the television for all digital and analogue channels.

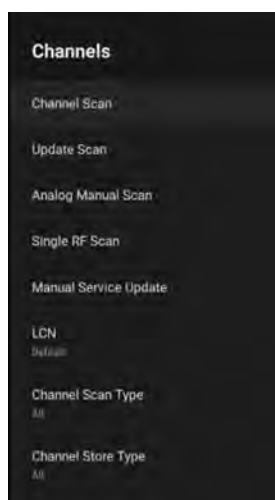**Update Scan** - Tunes all frequencies, on which channels are not currently tuned. This is recommended when searching new channels which were added recently, without retuning all channels.

Single RF Scan - Allows you to manually tune your digital signal by selecting the channel number.

Manual Service Update - Channel positions, names and frequencies will be updated by the provider.

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.

Analogue Channel Fine-tune - Allows you to fine-tune analogue channels to adjust picture quality.

Clear Channel List - Removes the channel list data.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Cable

While in the cable mode, the following options will be available:
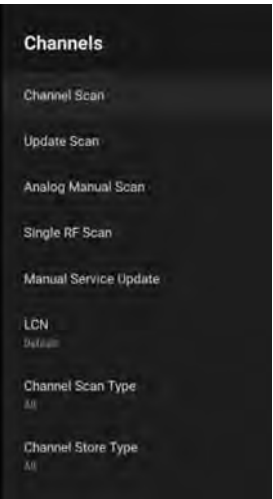
Channel Scan - Allows you to retune the television for all digital and analogue channels.

Single RF Scan - Allows you to manually tune your digital signal by selecting the channel number.

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.

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.

Analogue Channel - Allows you to fine-tune analogue.

Fine-tune - Channels to adjust picture quality.

Clear Channel List - Removes the channel list data.

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Satellite

Satellite Re-Scan - Allows you to scan selected satellite.

Satellite Add - Allows you to add new satellite transponder into the list of satellites.

Satellite Update - Tunes all frequencies, on which channels are not currently tuned. This is recommended when searching new channels which were added recently, without retuning all channels.

Satellite Manual Tuning - Allows you to scan selected satellite transponders.

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 - Allows you to delete all tuned channels.

Channel Installation Mode - Set the type of Digital television signal you receive. This setting affects content of Channels menu.

Auto Channel Update - If this option is set to ON, channel positions, names and frequencies will be periodically updated by the provider. This may cause issues if you ordered channels in the list of channels by yourself. In such case we recommend to keep this option off.

Channel Update Message- Auto Notifications about changes carried out by Channel Update function.

Parental Controls - Set the parental guidance level, and block channels or inputs.

Audio Channel - Allows you to change preferred audio track of the current analogue channel, in case more than one audio track is available.

Channels Blocked - Set manually, which channels will be blocked, independent of age restrictions.

Program Restrictions - Set the channels blocking based on age/rating.

Inputs Blocked - Allows you to block specified inputs.

Change PIN - Allows you to change the PIN, needed to access blocked content.

> **Note:** While in satellite mode, channels will be stored as they are tuned in. There is no logical channel numbering in the satellite tuning mode.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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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.
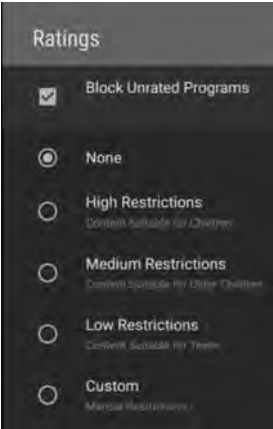
Channels Blocked - Allows you to block DTV channels.

Program Restrictions - When turned on it is possible to set the Rating System and Ratings. Options available are as below:

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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Advanced features
Getting the most from your TV

Accounts & Sign-in

In this menu you can add, synchronize or remove your Google account. To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Accounts & Sign-In. When selected, the options shown below are available:

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

Select "Add account".

Select "Sign In".

Select "Use your phone or computer".

To sign in, follow the on-screen instructions.

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.

Select "Add account".

Select "Sign In".

Enter your password using the remote control.

To sign in, enter your email address and password.

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.

Select an account you wish to manage.

Choose one of the following:
1. Sync now.
2. Remove account.
3. 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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Apps

Control and view apps here. To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Apps. When selected, the options shown below are available:

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:

1. Energy optimization.
2. Usage access.
3. Notification access.
4. Display over other apps.
5. Modify system settings.
6. Directory access.

Security & restrictions - Allows control of security and restrictions:

> *Unknown sources* - Allow installation of apps from sources other than Play Store.

> *Verify apps* - Disallow or warn before installation of apps that may cause harm.

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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Device Preferences Overview

Device preferences allows you to set up your television to your choice. To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences. When selected, the options shown below are available:

Device Preferences

- ⓘ About
- 🕐 Date & time
- 🕐 Timer
- 🌐 Language
- ⌨ Keyboard
- ⤓ Inputs
- 🔌 Power
- ▭ Picture
- 🔊 Sound
- ☰ Storage
- 🏠 Home screen
- ▣ Store mode
- G Google
- 🖵 Chromecast built-in
- ▣ Screen saver
- { } Developer options
- ◉ Location
- ⌁ Usage & Diagnostics

About - Information about TV and software.

Date & Time - Adjust system time & date.

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.

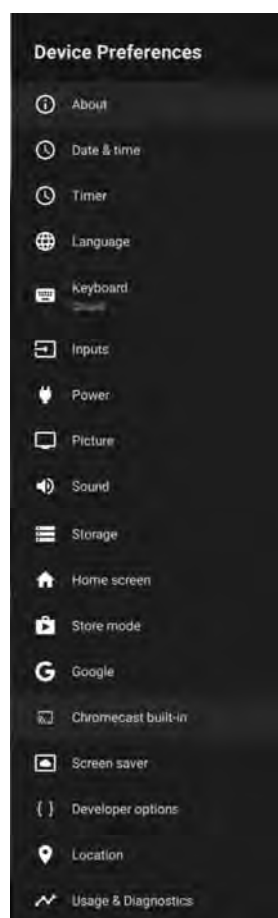*Sound* - Adjusts the sound settings and speaker related options.

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.

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.

Reset - 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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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About

This menu option tells you about your television. To enter this menu option, select the ⚫ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > About.
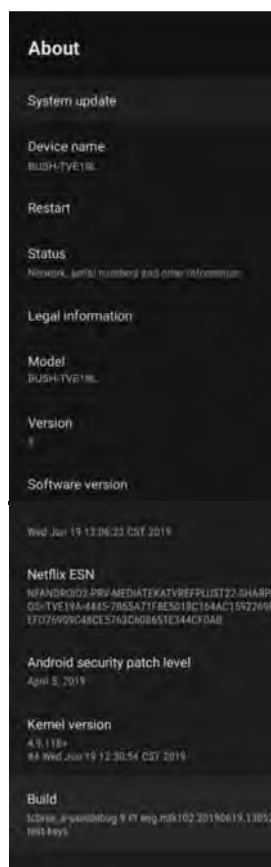
System Update – Checks for an update and allows this to be downloaded if available.

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.

Production Name – Production name of the set.

Restart – 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.

Version – Shows the Android software version.

Software Version – Shows the television software version.

Netflix ESN – Shows the Netflix Electronic Serial Number.

Android Security Patch Level – Shows the Android security level.

Kernel Version – Shows the internal operating system version.

Build – Shows the current build version.

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Getting the most from your TV

Date & Time

To enter this menu option, select the ⊙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Date & Time.

Available options:
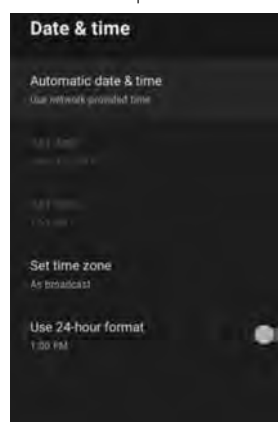
Automatic & Time – Turn on to synchronise the time to the incoming digital television signal. If connected to the internet, the clock will be updated from here. Turn off to set the clock manually.

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

To enter this menu option, select the ⊙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Timer.

Within this menu you will be able to set the various timer related operations on your set:
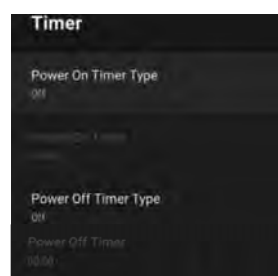
Power On timer Type – Off/on/once.

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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Language

To enter this menu option, select the ⚫ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Language.

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

Keyboard

To enter this menu option, select the ⚫ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Keyboard.

This option allows you to set up and control your keyboard. While in this menu, you can select/view the following options:

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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Inputs

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Inputs.

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.

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.

Features Available to Compatible CEC Devices

Blu-ray/DVD player

1. 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.

2. Automatically turns the connected Blu-ray/DVD player off when you turn the television off.

3. Controls menu operation **[ARROW]** buttons, playback and track selection of the connected Blu-ray/DVD player through the TV's remote control.

AV Receiver

1. 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.

2. Automatically switches the sound output to the AV receiver by turning the AV receiver on when the TV is turned on.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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3. Automatically turns the connected AV receiver off when you turn the TV off.

4. Adjust the volume and mute functions via the [VOL+/−] and [MUTE] buttons on your television remote control.

Video Camera

1. Automatically turns the TV on and switches the input to the connected video camera when the camera is turned on.

2. Automatically turns the connected video camera off when you turn the TV off.

3. 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)" on page 26 section of this manual for information relating to connecting an HDMI (ARC) enabled device.

Power

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Power.

In this menu you can change the settings related to power consumption and the following modes are available:

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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Picture

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Picture.

In this menu you can adjust the various picture settings of your television. Adjustments are possible in the User mode only as this will allow you to change the picture settings to your personal preference. These settings are saved automatically. In other modes, the set will default to the predetermined levels if adjusted.

Option in the picture menu are:
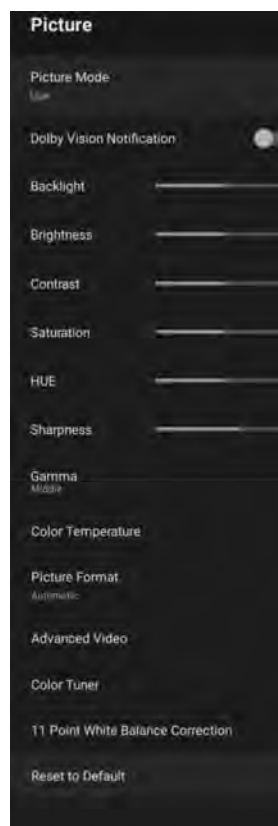
Picture mode.

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 Saving* – Best energy performance (on by default).

Backlight – Controls the intensity 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.

Options are:

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

Colour Temperature – Changes the colour temperature of the picture.

Options are:

> *Colour Temperature* – User / Cool / Standard / Warm.
>
> *Red Gain* – Controls red content.
>
> *Green Gain* – Controls green content.
>
> *Blue Gain* – Controls blue content.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Advanced Video – Options to enhance the viewing experience

Options are:

> ***DNR*** – Off / low / medium / strong / Auto.
>
> ***MPEG NR*** – Off / low / medium / strong.
>
> ***Adaptive Luma Control*** – Off / low / medium / strong.
>
> ***DI Film Mode*** – Off / auto.
>
> ***Game Mode*** – On / off.
>
> ***PC Mode*** – On / off.
>
> ***HDMI RGB Range*** – auto / 15-235 / 0-255.

Colour Tuner – Tune the colour settings.

Options are:

> ***Enable*** – On/off
>
> ***Hue*** – Red / green / blue / cyan/ magenta / yellow / flesh tone.
>
> ***Saturation*** – Red / green / blue / cyan/ Magenta / yellow / flesh tone.
>
> ***Brightness*** – Red / green / blue / cyan / magenta / yellow / flesh tone.
>
> ***Offset*** – Red / green / blue.
>
> ***Gain*** – Red / green / blue.

11 Point White Balance Correction – Settings to enhance the white balance in relation to RGB settings

Options are

> ***Enable*** – On / off.
>
> ***Gain*** – 5 / 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100%.
>
> ***Red*** – Control red channel.
>
> ***Green*** – Control green channel.
>
> ***Blue*** – Control blue channel.

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

> **Note**: While using apps, it may not be possible to adjust the picture settings as the app may control these for you to give the best possible picture.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Sound

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Sound.

In this menu you can adjust the various sound settings of your television. Adjustments are possible in the User mode only as this will allow you to change the sound settings to your personal preference. These settings are saved automatically. In other modes, the set will default to the predetermined levels if adjusted.

Sound Style – Sets the sound mode.

Options are:

> **User (default)** – Defined sound response by the user.
> **Standard** – Standard settings.
> **Vivid** – Brighter sounding audio.
> **Sports** – Ideal for sports events.
> **Movie** – Enhanced for movie experience.
> **Music/News** – Tailored for speech.

Balance – Left to right balance control.

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

120 / 500 / 1500 / 5000 / 10000Hz

Speakers – Internal or external speaker control.

Options Are:

> **TV Speakers** – TV speakers on.
> **External Audio System** – TV speakers off.

Digital Output – Type of encoding for optical digital output.

Options are:

> **Auto** – Automatically selects from input source.
> **Bypass** – Audio directly comes from connected device.
> **PCM (default)** – PCM encodes stream only.
> **Dolby Digital Plus** ® – Dolby Digital Plus only.
> **Dolby Digital** ® – Dolby Digital only.

SPDIF Delay – Audio delay for the digital optical output. 0 to 250ms.

Auto Volume Control – Automatic volume control on/off.

Downmix Mode – Set the downmix mode to Stereo / Surround.

DTS DRC – Turns Digital True Sound Dynamic Range Control on/off.

DTS Virtual-X ® – Turns Digital True Sound on/off. Options are: **Virtual:X / TBJDX / Limiter**.

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

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Storage

To enter this menu option, select the ⚽ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Storage.

Controls and shows the storage available on your television.
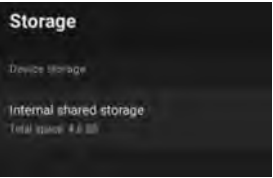
Internal shared Storage – Storage space available on the television.

Removable storage – Type and space available on connected media.

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

Home Screen

To enter this menu option, select the ⚽ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Home screen.
Allows for the home screen parameters to be changed and viewed.
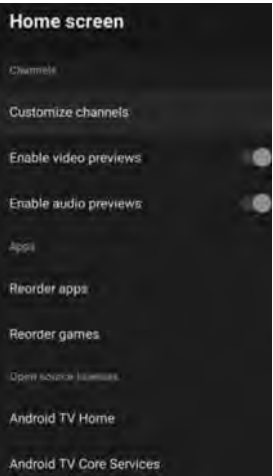
Customise Channel – Select channels which will appear on the home screen.

Enable video Previews – Turn home page video previews on/off.

Enable audio Previews – Turn home page audio previews on/off.

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.

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Store Mode

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Store Mode.

Turns the store mode on or off.

> **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

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Google Assistant.

Allows control of the Google Assistant. Some menu options are not available when the Google Assistant is turned off.
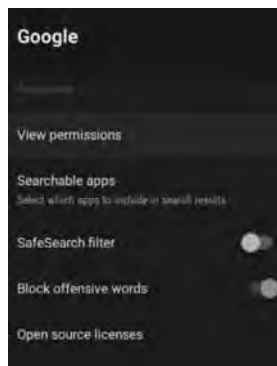
Accounts – Shows the current account name.

View Permissions – Sign into your Google account to view permissions.

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

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Chromecast built-in.
Gives information about Chromecast.

Open source licenses – Shows licence agreement.

Version number – Chromecast version.

Serial Number - Chromecast Serial Number.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Screensaver

To enter this menu option, select the ⚽ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Screen Saver.
Allows control of the built-in screen saver.
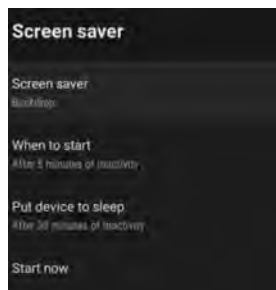
Screen saver – Activates the following:

> Turn screen off
>
> Backdrop
>
> Colours

When to start – Delay to start screen saver.

Options are: 5 / 15 / 30 / 60 / 120 minutes.

Put device to sleep – Time before television turns off.

Options are: 0.5 / 1 / 3 / 6 / 12 hours or never.

Start now – Start the screen saver now.

Location

Set the location services of your television. To enter this menu option, select the ⚽ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Location.
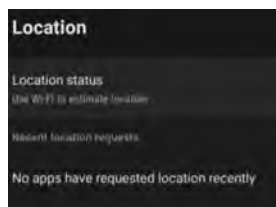
Location status – Use Wi-Fi to estimate location, on/off.

Recent location request – Shows recent requests for location services.

Usage & Diagnostics

To enter this menu option, select the ⚽ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > 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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Accessibility

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > Accessibility.

Accessibility has a shortcut function so you can turn it on or off by pressing and holding the **[BACK]** and **[DOWN]** buttons on the remote control for 3 seconds. Allows various accessibility options to be changed and controlled:
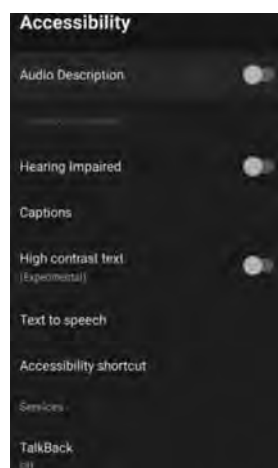
Audio Description – Turn audio description on/off.

Visually Impaired – Only appears when Audio Description is enabled.

Hearing impaired – Turn hearing impaired on/off.

Spoken Subtitle – Turn spoken subtitles on/off.

AC4 Dialogue Enhancement – Options are, Off / Low / Medium / High.

Captions – Control captions:

> Display options:
> Display – On/off
> Language – Select language
> Text size – Very small / Small / Normal / Large / Very Large

Caption Style – Various options.

High Contrast Text – Changes the contrast of the text.

Reset

To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Device Preferences > 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

Should you wish to add another remote or an accessory, use this option. To enter this menu option, select the ⚙ icon while on the Home Page or press the **[MENU]** button on the remote control when in television mode, then go to Settings > Remotes & accessories. When selected, the options shown below are available:

To pair your Bush Bluetooth remote with Voice Control:

Press the **[HOME]** button, then select Settings > Remotes & Accessories.

To pair remote with television, follow on-screen instructions. The name of your remote control will appear on the television screen. Press **[OK]** to confirm pairing.

To pair other Bluetooth devices:
Press the **[HOME]** button, then select Settings > Remotes & Accessories. Put Bluetooth device into pairing mode. For details, refer to the instruction manual of your device. The name of your remote control will appear on the television screen. 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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting the most from your TV

Playing Content Stored on a USB Device

You can connect a USB storage device to the USB port of the television to enjoy photo, music, and video files stored on the device. to do this, follow these steps:

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

2. Press the **[HOME]** button, select from the Home Page, and select the DigitalMediaPlayer from the app list.

3. If the supplied remote control has an APPS button, you can press the APPS button to display the app list.

4. Browse the list of folders and files and select the desired file.

5. Press **[OK]** and playback will start. Enjoy!

Notes: 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 and DNLA 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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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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 terrestrial, cable and satellite digital television signals on your television set. To do this, follow the instructions given below for each type of signal input.

Terrestrial

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

Press the **[HOME]** button, then select Settings > Channel > Channel installation mode.

Select option Antenna.

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

Terrestrial

Receiving cable digital broadcast;

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

Press the **[HOME]** button, then select Settings > Channel > Channel installation mode.

Select option Cable.

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:

Press the **[HOME]** button, then select Settings > Channel > Channel installation mode.

Select option Preferred Satellite if you want to tune one of satellites preferred in your country.

Select option General Satellite to get possibility to tune any satellite.

To start automatic channel scan, press the **[HOME]** button, then select Settings > Channel > Channels > Satellite Re-scan.
Choose the Satellite you wish to tune.

Select Scan and press **[OK]**.

Note: You can only tune into one type of digital television signal.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting the most from your TV

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.

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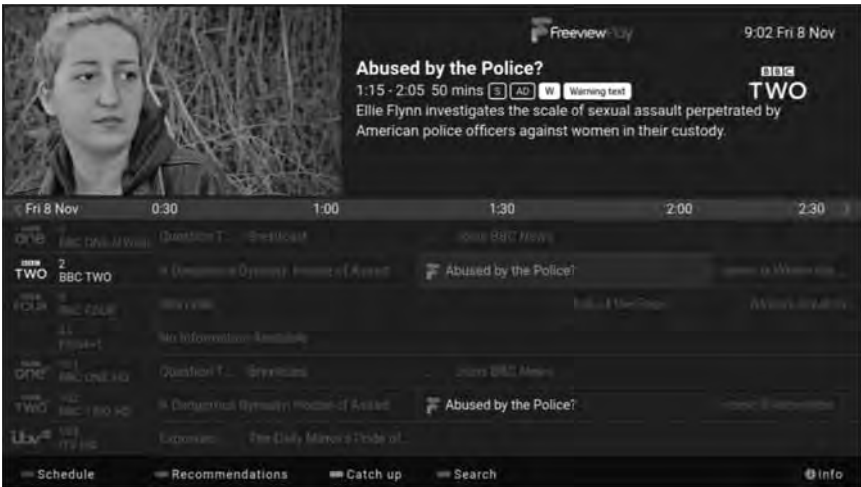
In the middle of the display is the programme listing, which is shown in time order, half hour segments being shown at the top and channel name on the left. If you would like to quickly scan through the channels, press the **[CH+]** or **[CH-]** buttons to quickly move up or down through the listings.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

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Getting the most from your TV

Back EPG

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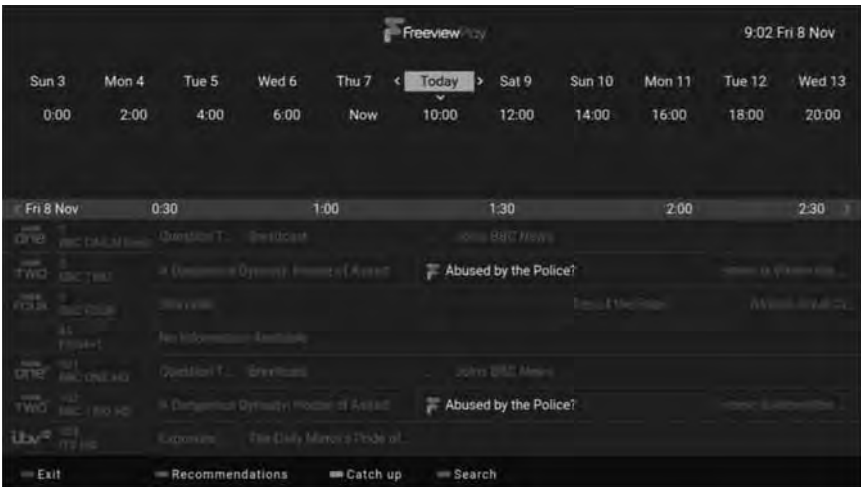
When a programme has been selected, the preview window and synopsis change to show the programme details. The date is below the preview window.

> **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

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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting the most from your TV

[YELLOW] – Go to Catch Up TV (also known as On Demand 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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Getting the most from your TV

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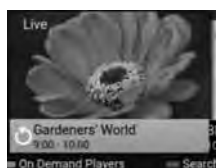
Should there be a "swirl" symbol next to the programme name, this means that you can playback the program form the start.

[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.
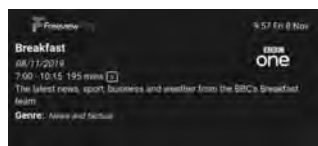
If the **[INFO]** button is pressed while on the selected programme, then an information screen is displayed.
While in the view programme list, the **[RED]** button can be pressed to return to the On TV Now option.

[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.

Advanced features
Getting the most from your TV

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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Getting the most from your TV

Channel List

When watching TV, you can press **[OK]** on the remote control to bring up the 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.

To modify your list of channels:

Press the **[SOURCE]** button and select television.

Press the **[MENU]** button and go to Settings > Channel > Channels.

Here choose one of menu items related to editing of channel list:

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.

Note: Depending on your country settings, Channel Sort and Channel Move may be unavailable. This is caused by LCN (Logical channel number). When LCN is ON, channels are sorted by preferences of your broadcaster. To make channel sorting/moving available set LCN to OFF in Settings > Channel > Channels > LCN.
We do not recommend turning LCN off, as when a future re-tune is carried out your channels will not be in order.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Getting the most from your TV

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

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. **(Calls are charged at the standard rate of your network provider).**

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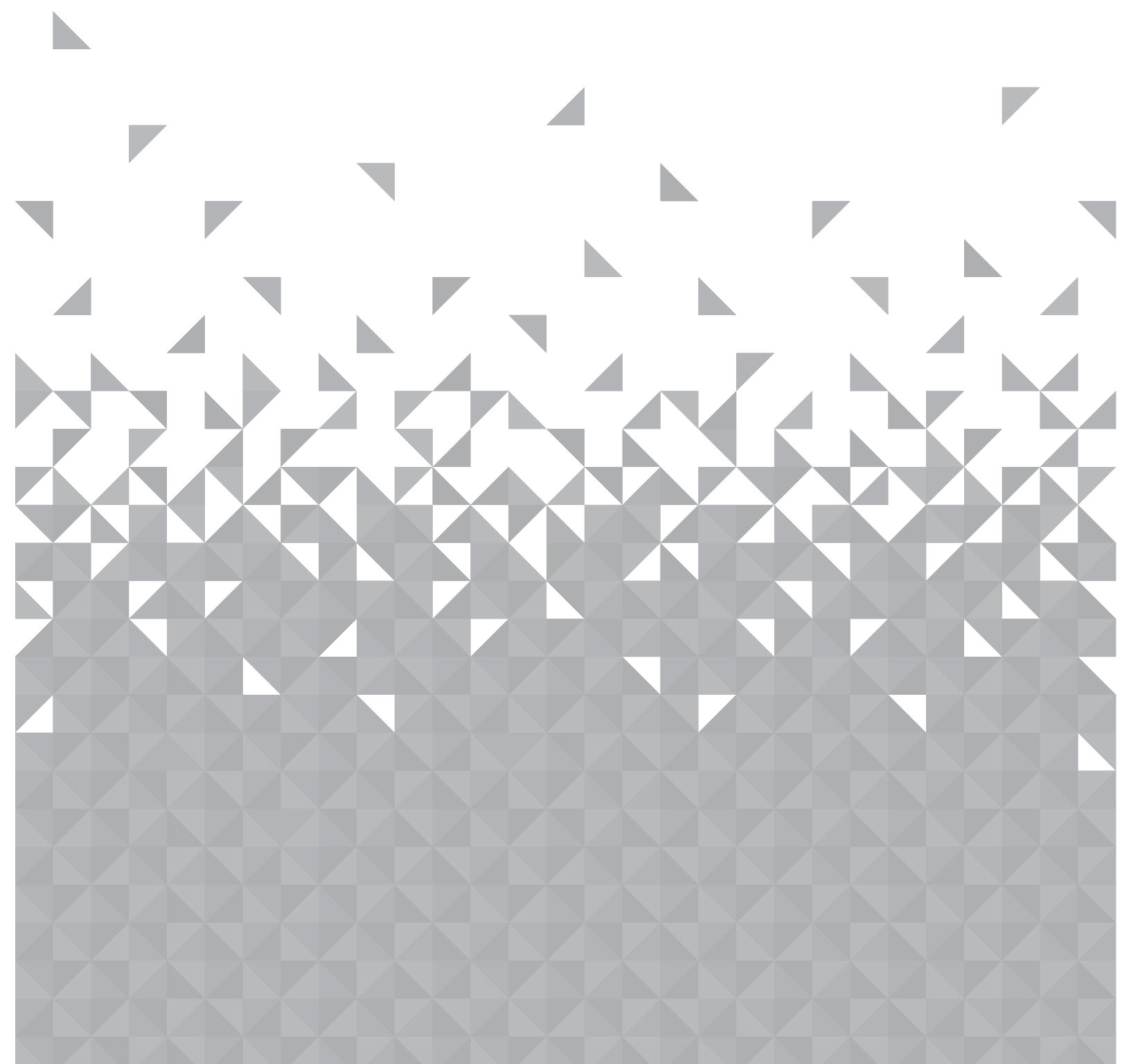
Other information
Helpful technical information

Menu Structure

HOME MODE		IN TELEVISION MODE	
First Level	**Second Level**	**First Level**	**Second Level**
Network & Internet	Wi Fi on/off	**Source**	Source selection dependant on model
	See all	**Picture Mode**	User
	Add new network		Standard
	Scanning always available		Vivid
	Wow		Sport
	Wol		Movie
	Ethernet		Game
	Connected		Energy Saving
	Proxy Setting	**Display Mode**	Automatic
	IP Setting		Full
Channel	Channels		Wide Screen
	Channel Installation Mode		Unscaled
	Auto Channel Update		4:3
	Channel Update message		Movie Expand 14:9
	Parental Controls		Movie Expand 16:9
	Audio Language	**Speakers**	TV Speakers
	2nd Audio Language		External Audio System
	Open Source Licences	**Power**	Sleep Timer
	Version		Power Off
Accounts & sign-in	Current account		Switch Off Timer
	Add account		No signal Auto power off
Apps	Various apps	**CI Card Apps**	Cam Menu
	App permissions		User Preference
	Special app access	**Advanced Options**	Setup
	Security & restrictions		Default channel
Device Preferences	About		Freeview Play Settings
	Date & Time		Subtitle
	Timer		Auto Sleep
	Language		System Information
	Keyboard		Version info
	Inputs	**Settings**	Network & Internet
	Power		Channel
	Picture		Accounts & Sign-in
	Sound		Apps
	Storage		Device Preferences
	Home Screen		Remotes & Accessories
	Store mode		Add accessory
	Chromecast Android Shell		Connected accessories
	Screen saver		
	Location		
	Usage & Diagnostics		
	Accessibility		
	Reset		
Remote & accessories	Add accessory		
	Connected accessories		

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

Other information

Helpful technical information

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

	HA42U5232MEKB
Energy Efficiency Class (SDR)	G
Power consumption (SDR)	63 W
Energy Efficiency Class (HDR)	G
Power consumption (HDR)	74 W
Screen resolution (pixels)	3840 x 2160
Screen Size (diagonal)	106 cm / 42 inches
RF	75 ohm Antenna / Analog / DVB / Satellite
Inputs	3 x HDMI, 3 x USB, SD Card Reader, 1 x RJ45 LAN/Ethernet, 1 x Component/YPbPr, 1 x Composite/Video & L/R Audio shared for Composite/Video & Component/YPbPr
Sound Outputs	1 x Digital Optical Audio output, 1 x 3.5mm Headphone
Speaker/ Amplifier Watts (RMS)	2 x 10 / 2 x 8
Voltage and power consumption	AC 220V ~ 240V; 50Hz 63/75/95W (eco mode/std/max) (<0.5W in Standby)
Dimensions including stand (mm)	953W x 579H x 188D
Net weight (Kgs)	6.7
Wall Mounting	VESA 200 x 200 (mm)

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

Other information

Helpful technical information

Specifications

USB and DNLA - Supported Video Formats

Video Codec	Container	Data Rate	Profile	Resolution
XviD	MP4 (.mp4, .mov)	40Mbps	N/A	1080P @ 60fps
	AVI (.avi)			
	MKV (.mkv)			
	ASF (.asf)			
	OGM (ogm)			
Sorenson H.263	FLV (.flv)	40Mbps	N/A	1080P @ 60fps
	AVI (.avi)			
	SWF (.swf)			
	MPEG transport stream (.ts, .trp, .tp)			
	OGM (.ogm)			
H.263	MP4 (.mp4, .mov)	40Mbps	N/A	1080P @ 60fps
	3GPP (.3gpp, .3gp)			
	AVI (.avi)			
	MKV (.mkv)			
	OGM (.ogm)			
H.264	FLV (.flv)	135Mbps	. Main Profile . High Profile @ Level 5.0	4096*2160 @ 60fps 1080P @ 60fps
	MP4 (.mp4, .mov)			
	3GPP (.3gpp, .3gp)			
	MPEG transport stream (.ts, .trp, .tp)			
	ASF (.asf)			
	WMV (.wmv)			
	AVI (.avi)			
	MKV (.mkv)			
	OGM (.ogm)			
MPEG4	MPEG program stream (.MPG, .MPEG)	40Mbps	. 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)			
	OGM(.ogm)			
HEVC/H.265	MP4(.mp4,.mov)	100Mbps	. Main(8bits)/ . Main10(10bits) Profile, High Tier@ Level 5.1	4096*2160 @ 60fps
	3GPP(.3gpp, .3gp)			
	MPEG transport stream(.ts, .trp, .tp)			
	MKV(.mkv)			
MVC	MPEG transport stream (.ts, .trp, .tp)	80Mbps	N/A	1080P @ 30fps

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

Other information

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Specifications

USB and DNLA Supported Video Formats (continued)

Video Codec	Container	Data Rate	Profile	Resolution
AVS	MPEG transport stream (.ts, .trp, .tp)	40Mbps	. Jizhun profile @ Level 6.0	1080P @ 60fps
	MPEG program stream(.MPG,.MPEG)			
AVS+	MPEG transport stream (.ts, .trp, .tp)	50Mbps	. Broadcasting profile@Level 6.0.1.08.60	1080P @ 60fps
MPEG1/2	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)	80Mbps	N/A	1080P @ 60fps
	MPEG transport stream (.ts, .trp, .tp)			
	MP4 (.mp4, .mov)			
	3GPP (.3gpp, .3gp)			
	AVI (.avi)			
	MKV (.mkv)			
	ASF (.asf)			
	OGM(.ogm)			
Motion JPEG	AVI (.avi)	10Mbps	N/A	1080P @ 30fps
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MKV (.mkv)			
	ASF (.asf)			
VP8	MKV (.mkv)	20Mbps	N/A	1080P @ 60fps
	WebM (.webm)			
VP9	MKV (.mkv)	100Mbps	. Profile0/2	N/A
	WebM (.webm)			
FLV	MPEG program stream(.MPG, .MPEG)	45Mbps	. Advanced Profile@Level 3 . Simple Profile . Main Profile	1080P @ 60fps
	MPEG transport stream (.ts, .trp, .tp)			
	ASF (.asf)			
	WMV (.wmv)			
	AVI (.avi)			
	MKV (.mkv)			
	OGM(.ogm)			

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Other information

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Specifications

Supported Audio Formats

Audio Codec	Container	Sample Rate	Bit Rate	Channel
MPEG1/2 Layer1	MOVIE:	16KHz ~ 48KHz	32Kbps ~ 448Kbps	Up to 2
	AVI (.avi)			
	ASF (.asf)			
	DivX (.divx)			
	Matroska (.mkv)			
	MPEG transport stream (.ts, .trp, .tp)			
	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)			
	MUSIC:			
	WAV (.wav)			
	MP3 (.mp3)			
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)			
	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)			
	MUSIC			
	WAV (.wav)			
	MP3 (.mp3)			
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)			
	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)			
	FLV (.flv)			
	SWF (.swf)			
	MUSIC:			
	WAV (.wav)			
	MP3 (.mp3)			
	MP4 (. m4a)			

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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Specifications

Supported Audio Formats (continued)

Audio Codec	Container	Sample Rate	Bit Rate	Channel
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)			
EAC3	MOVIE:	32KHz, 44.1KHz, 48KHz	32Kbps ~ 6Mbps	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)			
VORBIS	MOVIE:	Up to 48KHz	N/A	Up to 2
	Matroska (.mkv)			
	WebM (.webm)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MUSIC:			
	MP4 (.m4a)			
LPCM	MOVIE:	8KHz ~ 48KHz	64Kbps ~ 1.5Mbps	Mono, Stereo, 5.1
	AVI (.avi)			
	Matroska (.mkv)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
LPCM	MPEG transport stream (.ts, .trp, .tp)	8KHz ~ 48KHz	64Kbps ~ 1.5Mbps	Mono, Stereo, 5.1
	MPEG program stream (.DAT, .VOB, .MPG, .MP EG)			
	MUSIC:			
	WAV (.wav)			
	MP4 (.m4a)			
IMA-A DPCM MS-A DPCM	MOVIE:	8KHz ~ 48KHz	32Kbps~384Kbps	Up to 2
	AVI (.avi)			
	Matroska (.mkv)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MUSIC:			
	WAV (.wav)			

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Other information

Helpful technical information

Specifications

Supported Audio Formats (continued)

Audio Codec	Container	Sample Rate	Bit Rate	Channel
G711 A/ MP4 (.m4a) mu-law	**MOVIE:**	8KHz	64Kbps	1
	AVI (.avi)			
	Matroska (.mkv)			
	3GPP (.3gpp, .3gp)			
	MP4 (.mp4, .mov)			
	MUSIC:			
	WAV (.wav)			
LBR (cook)	RM (.rm, .rmvb)	8KHz 11.025KHz, 22.05KHz, 44.1KHz	6Kbps ~ 128Kbps	Up to 5.1
FLAC	Matroska (.mkv, .mka)	8KHz~96KHz	< 1.6Mbps	Up to 7.1
	FLAC (.flac)			
DTS LBR	MOVIE:	12khz, 22khz, 24khz, 44.1khz 48khz	Up to 2Mbps	Up to 5.1
	MP4(.mp4,.mov)			
DTS XLL	MOVIE:	Up to 96khz	N/A	Up to 6
	MPEG transport stream(.ts,.trp,.tp)			
	MP4(.mp4,.mov)			
DRA	MOVIE:	8KHz~96KHz	< 6Mbps	Up to 7.1
	MPEG transport stream (.ts, .trp)			
DTS	MOVIE:	Up to 48KHz	< 1.5Mbps	Up to 5.1
	MPEG transport stream (.ts, .trp, .tp)			
	MPEG program stream (.DAT, .VOB, .MPG, .MPEG)			
	Matroska (.mkv)			
	MUSIC:			
	WAV(.wav)			

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

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

Product support 7
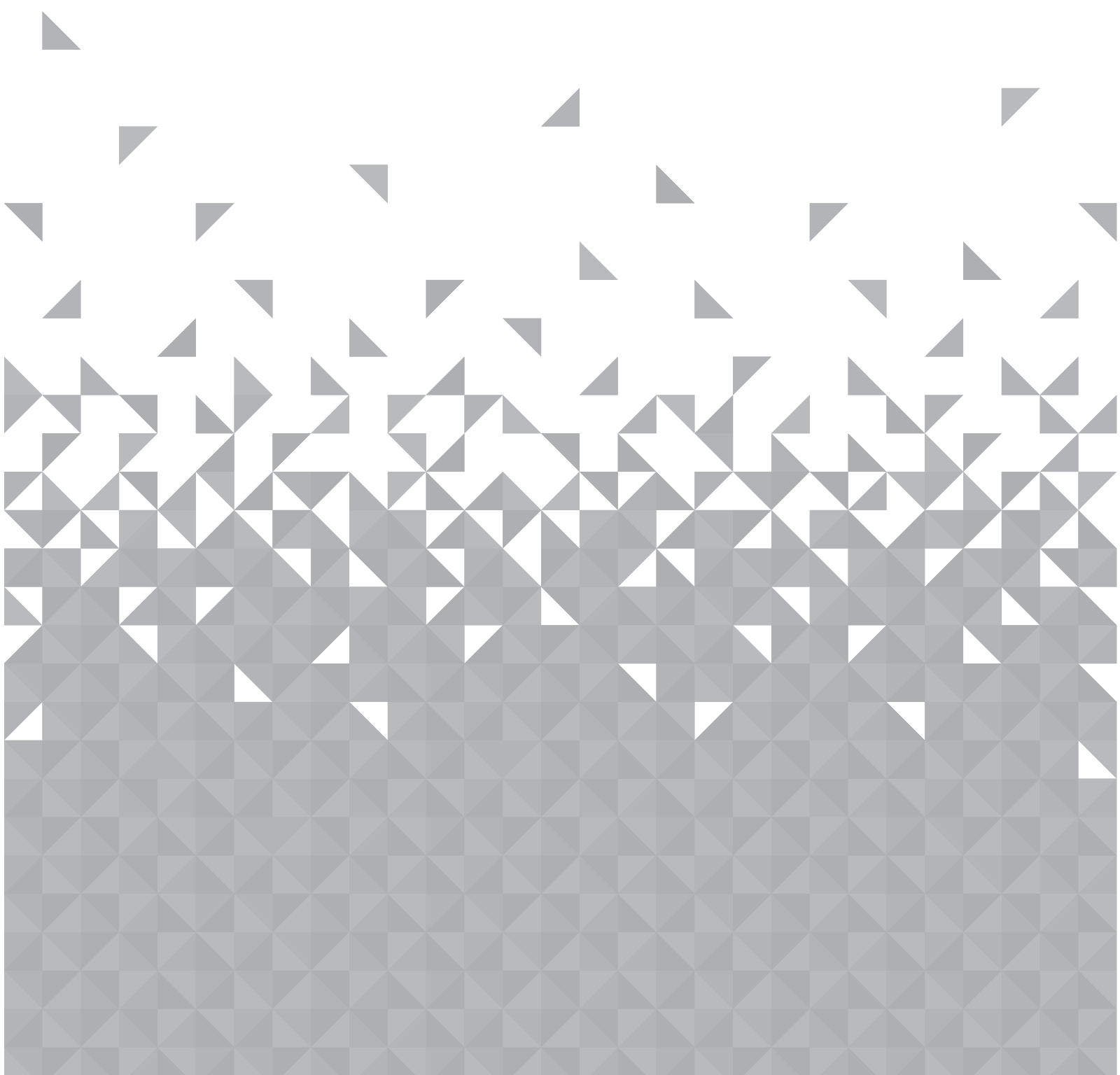
Product support
Help is always at hand

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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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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:

Turn the set on.
Go to Settings > Remotes and Accessories or press the ⬚ button on the remote control.

Now 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**: 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.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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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.

If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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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.

Why is my manual different to what I see on screen?

This manual was compiled with the following software version of Android.

Software Version: V1.29.1.1.U002

Subsequent software versions of Android TV may have minor changes to menu text, menu layout or TV functionality. To check your TVs current version of Android, navigate to the following screen: Settings > Device Preferences > About

Google Home assistant and Wake on LAN

Currently, when using a Google Home Assistant device, the remote "wake" feature for this television is limited to the WoW function (Wake on Wireless).
WoL (Wake on LAN) is not currently supported by these devices for this television, even when the option in the settings is selected.

If you require any technical guidance or find that your TV is not operating as intended, a simple solution can often be found in the **Troubleshooting** section of these instructions, or online at **www.bush-support.co.uk**.

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The guarantee does not cover accidental damage, misuse, cabinet parts, knobs or consumable items.
The product must be correctly installed and operated in accordance with the instructions contained in the manual.
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You are entitled to ask for a copy of the information we hold about you (for which we may charge a small fee) and to have

any inaccuracies in your information corrected. For quality control and training purposes, we may monitor or record your communications with us.

If your personal details change, if you change your mind about any of your marketing preferences or if you have any queries about how we use your information, please let us know by contacting our **Data Protection Officer, Domestic & General, Leicester House 17 Leicester Street, Bedworth, Warwickshire, CV12 8JP.**

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If you still require further assistance, call one of our experts on **0345 604 0105**, a Bush enquiry line. (Calls are charged at the standard rate of your network provider).

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Contact:

Helpline: 0345 604 0105

Web: www.bush-support.co.uk

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