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# Getting Started

## What's new

### Home and channels

#### The Home launcher

Press **HOME** on your remote control to get your new Android Home screen. From here you can decide what to watch by browsing entertainment options from app and live TV. Your Home has channels to let you discover great contents from your favourite apps. You can also add additional channels or find new apps to get more contents.

#### “Play Next” channel

You can always know what to watch next from **Play Next** channel on the Home screen. Start watching from where you left off and get notifications about new episodes in the **Play Next** channel. Press and hold **Select** on a movie or TV show to add it directly to the **Play Next** channel.

#### Accessing settings from Home

You can access **Settings** menu via the icon at the top right corner.

#### Accessing USB flash drive from Home

To view the files from the USB flash drive, you need to add the MMP (MultiMediaPlayer) app to the Home page first. Press **HOME**, clicking the Apps icon at the left end of the Apps row. You can add **MMP** apps from the Apps page.

#### System bar on Home screen

The System bar on the top of Home screen contains following features.

- Search button: to trigger Google search with voice or text input.
- Notifications: to provide you the messages about your Smart TV system.
- Input source: to launch the input source list and switch to any of the connected devices.
- Settings: to access all setting menu and adjust the TV settings.
- Clock: to indicate the system clock.

## Apps and Live TV

### Favourite Apps on the first row

You can find more apps in the Apps page which can be opened by clicking the Apps icon at the left end of the **Apps** row. You can also add more apps as favourite from the Apps page, such as the Live TV and MMP (MultiMediaPlayer).

## Setting Up

### TV Stand

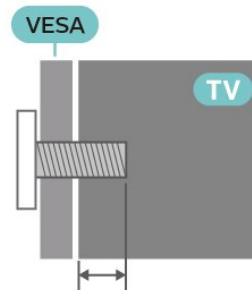
You can find the instructions for mounting the TV stand in the Quick Start Guide that came with the TV. In case you lost this guide, you can download it from the website.

Use the model number of the TV to look for the **Quick Start Guide** to download.

### Wall Mounting

Your TV is also prepared for a VESA-compliant wall mount bracket (sold separately).

Use the following VESA code when purchasing the wall mount . . .



- Wall Mount Bracket SU-WL450, M6 (Min 10mm, Max 12mm)

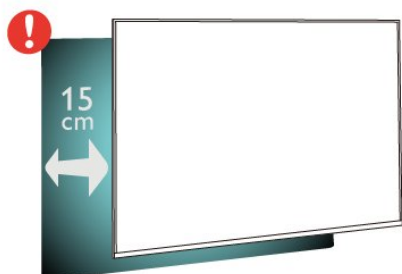
#### Caution

Wall mounting the TV requires special skills and should only be performed by qualified personnel. The TV wall mounting should meet safety standards according to the TV's weight. Also read the safety precautions before positioning the TV. SONY bears no responsibility for improper mounting or any mounting that results in accident or injury.

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## Tips on Placement

- Position the TV where light does not shine directly on the screen.
- The ideal distance to watch TV is 2 to 5 times its diagonal screen size. When seated, your eyes should be level with the centre of the screen.
- When wall mounted, position the TV up to 15 cm away from the wall.



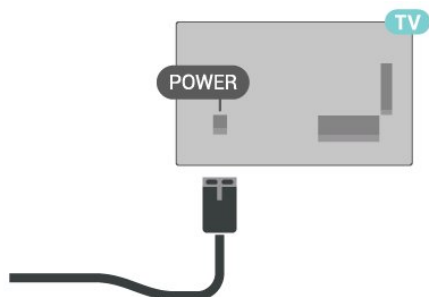
### Note:

Please keep the TV away from dust-producing sources such as stoves. It is suggested to clean the dust regularly to avoid getting dust into the TV.

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## Power Cable

- Insert the power cable into the **POWER** connector on the back of the TV.
- Make sure the power cable is securely inserted in the connector.
- Make sure that the power plug, in the wall socket, is accessible at all times.
- When you unplug the power cable, always pull the plug, never pull the cable.



Although this TV has a very low standby power consumption, unplug the power cable to save energy if you do not use the TV for a long period of time.

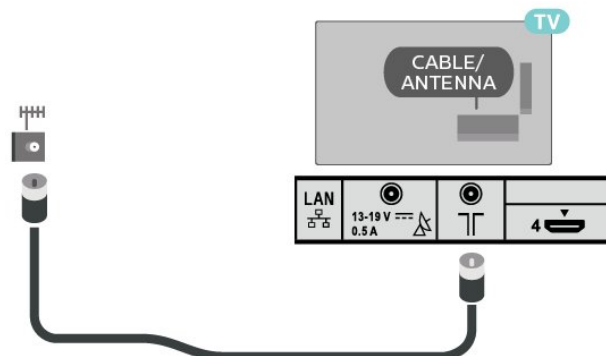
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## Antenna Cable

Insert the antenna plug firmly into the **CABLE/ANTENNA** socket at the back of the TV.

You can connect your own antenna or an antenna signal from an antenna distribution system. Use an IEC Coax 75 Ohm RF antenna connector.

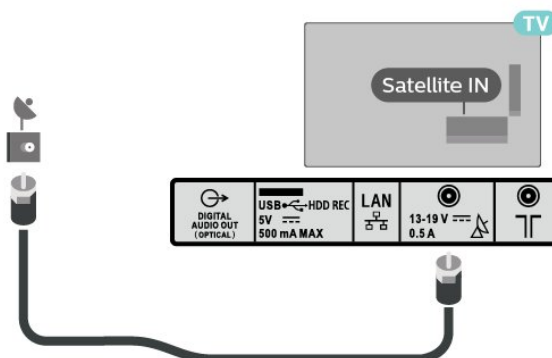
Use this antenna connection for Antenna and Cable input signals.



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## Satellite Dish

Attach the satellite F-type connector to the satellite connection **Satellite IN** at the back of the TV.



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1.3

## Remote Control

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### Key Overview

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Top



**1 - MIC**

- For voice search.

**2 - Power (Standby / On)**

- Turn on or off the TV (standby mode)

**3 - Number buttons**

- Use with the 0-9 buttons to select digital channels.

**4 - Info/Text reveal**

- Display information.

**5 - Freeview Play / YouTube™**

- Access the "Freeview Play" online service. (Only on Limited region/country/TV model)
- Access the "YouTube" online service. (Only on Limited region/country/TV model)

**6 - Disney+**

- Access the "Disney+" online service. (Only on Limited region/country/TV model)

**7 - Colour buttons**

- Execute corresponding function at that time.

**8 - Text**

- Display text information.

**9 - NETFLIX**

- Access the "Netflix" online service. (Only on Limited region/country/TV model)

**10 - Prime Video**

- Access the "Prime Video" online service. (Only on Limited region/country/TV model)

**Middle**



**1 - GUIDE**

- Display the digital programme guide.

**2 - Microphone/Google Assistant**

- Use Google Assistant\*1\*2 or voice search\*2. For hints on how to control your TV, press the microphone button on the remote control and say "voice hints".\*1

**Note:**

\*1: Only on limited region/country/TV model/language.

\*2: Google Assistant or voice search requires an Internet connection.

**3 - Input select**

- Display and select the input source.

**4 - Navigation (up/down/left/right) / OK (Enter)**

- On screen menu navigation and selection.
- In TV mode: Display and select programmes on other channels while watching TV (Digital/Analogue).

**5 - BACK**

- Return to the previous screen.

**6 - TV**

- Switch to a TV channel or input.

**7 - REC LIST**

- Display the Rec list of USB HDD.

**8 - Quick settings**

- Display Quick Settings.

**9 - HOME**

- Display the TV Home screen.

**Bottom**



### 1 - Jump

• Jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.

### 2 - Mute

• Mute the sound. Press again to restore the sound.

### 3 - Subtitle setting

• Turn subtitle on or off for broadcast and supported apps (when the feature is available).

### 4 - Volume + / -

• Adjust the volume.

### 5 - AUDIO

• Select the sound of multilingual source or dual sound for the programme currently being viewed (depend on programme source).

### 6 - Playbacks (Rewind/Play/Fast forward/Pause) / REC

• Operate media contents on the TV and connected CEC-compatible device.  
• REC: Record the currently viewed programme on USB HDD.

### 7 - CH + / - (Channel)

• In TV mode: Select the channel.  
• In Text mode: Select the + (Next) or - (Previous) page.

### 8 - HELP

• Display the Help menu. Help Guide can be accessed from here.

### 9 - EXIT

• Return to the previous screen or exit from the menu. When an Interactive Application service is available, press to exit from the service.

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## IR Sensor

The TV can receive commands from a remote control that uses IR (infrared) to send commands. If you use such a remote control, always make sure you point the remote control at the infrared sensor on the front of the TV.



### Warning

Do not put any objects in front of IR sensor of the TV, it may block the IR signal.

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## Batteries

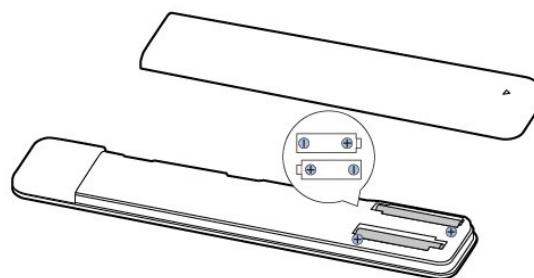
If the TV does not react on a key press on the remote control, the batteries might be empty.

To replace the batteries, open the battery compartment on the back-bottom of the remote control.

1 - Slide the battery door in the direction shown by the arrow.

2 - Replace the old batteries with 2 type AAA-1.5V batteries. Make sure the + and the - ends of the batteries line up correctly.

3 - Reposition the battery door and slide it back until it clicks.



Remove the batteries if you are not using the remote control for a long time.

Safely dispose of your old batteries according to the end of use directions.

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## Cleaning

Your remote control is treated with a scratch-resistant coating.

To clean the remote control, use a soft damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the remote control.

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### 1.4

## Switching On and Off

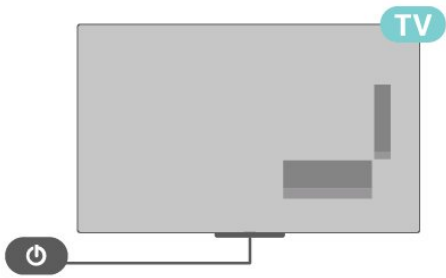
Make sure the TV is connected to the mains AC power. The indicator light at the bottom of the TV lights up.

### Switch on

Press **Power** on the remote control to switch the TV on. You can also press the power button on the bottom of the TV to switch the TV on in case you can't find the remote control or its batteries are empty.

### Switch to standby

To switch the TV to standby, press **Power** on the remote control. You can also press the power button on the bottom of the TV.



In standby mode, the TV is still connected to the mains power but consumes very little energy.

To switch off the TV completely, disconnect the power plug.

When disconnecting the power plug, always pull the power plug, never the cord. Ensure that you have full access to the power plug, power cord and outlet socket at all times.

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# Watching TV

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## Channels

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### About Channels and Switch Channels

#### To watch TV channels

- Press **TV**.
- Press **Input select** and select **TV**.
- If you know the channel number, type in the number with the number keys. Press **OK** after you entered the number to switch channels.

#### To switch to a channel from a channel list

- While watching a TV channel, press **OK** to open the channel lists.
- The channel list can have several pages with channels. To view the next or previous page, follow the on-screen instruction.
- To close the channel lists without switching channels, press **EXIT**.

#### Radio channels

If digital broadcasting is available, digital radio stations are installed during installation. Switch to a radio channel just like you switch to a TV channel.

TV may not work properly with some operators of digital television, non-compliance with requirements of the standard in full.

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## Channel Lists

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### About Channel Lists

After a channel installation, all channels appear on the channel list. Channels are shown with their name if this information is available.

With a channel list selected, press **Navigation keys up or down** to select a channel, then press **Select** to watch the selected channel.

#### Radio stations

If digital broadcasting is available, digital radio stations are installed during installation. Switch to a radio channel just like you switch to a TV channel.

TV may not work properly with some operators of digital television, non-compliance with requirements of the standard in full.

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### Open a Channel List

Next to the list with all channels, you can select a filtered list or you can select one of the favourite lists you created.

#### To open the current channel list

- 1 - While watching TV, press **OK** to open the current channel list.
- 2 - Press **EXIT** to close the channel list.

---

### Search for a Channel

You can search for a channel to find it in a long list of channels.

#### To search for a channel

- 1 - Press **OK** to open the current channel list.
- 2 - Press **Yellow key** for **Select More**.
- 3 - Select **Find** and press **OK** to open a text field. You can use the remote control keyboard (if available) or the on-screen keyboard to enter text.
- 4 - Enter a number, a name or part of a name and press **OK**. The TV will search for matching channel names in the list you selected.

Search results are listed as a channel list - see the list name at the top. The search results disappear once you select another channel list or close the list with search results.

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### Channel List sorting

You can do channel list sorting with all channels. You can set the channel list to show only TV channels or only Radio stations. For Antenna channels you can set the list to show the Free-to-Air or the Scrambled channels.

#### To set a filter on a list with all channels

- 1 - Press **OK** to open the current channel list.
- 2 - Press **Yellow key** for **Select More**.
- 3 - Select **Sort** and press **OK**.
- 4 - Select the filter you want and press **OK** to activate. The name of the filter appears as part of the channel list name on top of the channel list.
- 5 - Press **EXIT** to close the channel list.

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## Watching channels

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### Tune to a Channel

To start watching TV channels, press **TV**. The TV tunes to the channel you last watched.

Alternatively, you can select **Live TV** from the Home screen.

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## Switch Channels

To switch channels, press **CH +** or **CH -**.  
If you know the channel number, type in the number with the number keys. Press **OK** after you entered the number to switch immediately.

You can also tune to channels from a **Channel List** by pressing **OK**.

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## Parental Controls

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### Lock and Unlock a Channel

To prevent children from watching a channel, you can lock a channel. To watch a locked channel, you must enter the 4 digit PIN code first. You cannot lock programmes from connected devices.

#### To lock or unlock a channel

- 1 - Press **Quick settings > Navigation keys up > Channel > Parental Controls** and press **OK**.
  - 2 - Enter your PIN code if necessary.
  - 3 - Select **Channel Blocked** and press **OK**.
  - 4 - Press **Navigation keys up or down** to select **Block all / Unlock all** or the channels you want to lock or unlock, and press **OK**.
  - 5 - A locked channel is marked with a lock icon.
  - 6 - Press **EXIT**, repeatedly if necessary, to close the menu.
- 

### Programme Restrictions

To prevent children from watching a programme that may not be suitable for them, you can set a rating.

Digital channels can have their programmes rated. When the rating of a programme is equal to or higher than the rating you have set, the programme will be locked. To watch a locked programme, you must enter the PIN code first.

#### To set a rating

- 1 - Press **Quick settings > Navigation keys up > Channel > Parental Controls** and press **OK**.
- 2 - Enter your PIN code if necessary.
- 3 - Select **Programme Restrictions** and press **OK**.
- 4 - Select **On** to set the rating.
- 5 - Select **Ratings** and press **OK**.
- 6 - Set the restrictions for your children.
- 7 - Press **EXIT** to close the menu.

To switch off the parental rating, select **None**. However, in some countries you must set a rating.

For some broadcasters/operators, the TV only locks programmes with a higher rating. The parental rating is set for all channels.

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## Inputs Blocked

To prevent from using connected devices, you can lock an input source. To connect a locked input source, you must enter the 4 digit PIN code first.

#### To lock or unlock an input source

- 1 - Press **Quick settings > Navigation keys up > Channel > Parental Controls** and press **OK**.
  - 2 - Enter your PIN code if necessary.
  - 3 - Select **Input Blocked** and press **OK**.
  - 4 - Press **Navigation keys up or down** to select the source you want to lock or unlock, and press **OK**.
  - 5 - A locked source is marked with a lock icon.
  - 6 - Press **EXIT** to close the menu.
- 

## Change PIN

Set new or reset PIN code. The PIN code is used to lock or unlock channels or programmes.

- 1 - Press **Quick settings > Navigation keys up > Channel > Parental Controls** and press **OK**.
  - 2 - Enter your PIN code if necessary.
  - 3 - Select **Change PIN** and press **OK**.
  - 4 - Enter the current PIN code and new PIN code.
  - 5 - Press **EXIT** to close the menu.
- 

## Favourite Channels

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### About Favourite Channels

In a favourite channel list, you can collect the channels you like.

You can create 4 different lists\* of favourite channels for easy channel zapping.

With a Favourites List selected, press the **Navigation keys up or down** to select a channel, then press **OK** to watch the selected channel.

---

### Edit a Favourites List - Digital TV

#### To add a channel to the favourite list

- 1 - While watching TV, press **OK** to open the current channel list.
- 2 - Press **Navigation keys up or down** to select a channel.
- 3 - Press **Blue key** to add the channel to a favourites list (default list is **Favourites1**). Press **Blue key** again will remove the channel from the favourite list.
- 4 - Press **EXIT** to close the menu.



#### To create a favourite channels list

- 1 - While watching TV, press **OK** to open the current channel list.
- 2 - Press **Yellow** key for **Select More**.
- 3 - Select **Select Type > Favourites** and then press **Navigation** keys up or down to select a list of **Favourites1\*** to **Favourites4** that you want to add.
- 4 - Press **Yellow** key for **Select More** and then select **Select Type** to change the channel list to your preferred list.
- 5 - Press **Blue** key to add the channel to the favourites list you just selected. Press **Blue** key again will remove the channel from the favourite list.
- 6 - Press **EXIT** to close the menu.

#### To move or remove a channel from the favourites list

- 1 - Select a list of **Favourites1\*** to **Favourites4** you want to edit.
- 2 - Press **Yellow** key for **Select More**.
- 3 - Select **Move** to move the channel positions on the favourite channel list.
- 4 - Select **Delete** to remove the channels from the favourite channel list.
- 5 - Press **EXIT** to close the menu.

---

#### Edit a Favourites List - Analogue TV

##### To add a channel to the favourite list

- 1 - While watching Analogue TV, press **OK** to open the current channel list.
- 2 - Press **Navigation** keys up or down to select a channel.
- 3 - Press **Blue** key to add the channel to a favourites list (default list is **Favourites1**). Press **Blue** key again will remove the channel from the favourite list.
- 4 - Press **EXIT** to close the menu.

##### To create a favourite channels list

- 1 - While watching Analogue TV, press **OK** to open the current channel list.
- 2 - Press **Yellow** key for **Favourites**.
- 3 - Press **Navigation** keys left or right to select a list of **Favourites1\*** to **Favourites4** that you want to add.
- 4 - Press **Back** to see the channel list is changed to your preferred list.
- 5 - Press **Blue** key to add the channel to the favourites list you just selected. Press **Blue** key again will remove the channel from the favourite list.
- 6 - Press **EXIT** to close the menu.

#### To move or remove a channel from the favourites list

- 1 - Select a list of **Favourites1\*** to **Favourites4** you

want to edit.

- 2 - Press **Yellow** key for **Favourites**.
- 3 - Select **Move** to move the channel positions on the favourite channel list.
- 4 - Select **Delete** to remove the channels from the favourite channel list.
- 5 - Press **EXIT** to close the menu.

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## Text / Teletext

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### Text Pages

To open Text/Teletext press **Teletext**, while you are watching TV channels.

To close Text, press **Teletext** again.

### Select a Text page

To select a page

- 1 - Enter the page number with the number keys.
- 2 - Use the **Navigation** keys to navigate.
- 3 - Press a colour key to select a colour-coded subject at the bottom of the screen.

### Text sub-pages

A Text page number can hold several subpages. The subpage numbers are shown on a bar next to the main page number.

To select a subpage, press **Navigation** keys left or right.

### Dual screen

- 1 - Press **Teletext** to open the Text page.
- 2 - Press **Teletext** again to launch the dual screen mode.
- 3 - To exit from Text page, press **Teletext** again.

---

### Text Setup

#### Text language

Some digital TV broadcasters have several Text languages available.

To set your primary and secondary Text language

- 1 - Select **Quick settings > TV options > Advanced Options > Teletext** and press **OK** to enter the menu.
- 2 - Select **Digital Teletext Language** or **Decoding Page Language** and press **OK**.
- 3 - Select your preferred Text languages.
- 4 - Press **EXIT** to close the menu.

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## Interactive TV

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### About iTV

With interactive TV, some digital broadcasters combine their normal TV programme with information or entertainment pages. On some pages, you can respond to a programme or vote, do online shopping or pay for a video-on-demand programme.

### HbbTV

Interactive TV is sometimes referred to as Digital Text or Red button. But each system is distinct.

Visit the broadcaster's Internet website for more information.

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### What You Need

Interactive TV is only available on digital TV channels. To enjoy the full benefits of Interactive TV, you need a high-speed (broadband) Internet connection to the TV.

### HbbTV

If a TV channel offers HbbTV pages, you must first switch on HbbTV in the TV settings to view the pages.

To switch on the HBBTV support

Quick settings > TV options > Advanced options > HbbTV settings

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### Use iTV

#### Open iTV pages

Most channels that offer HbbTV or iTV invite you to press the colour key or **OK** key to open their interactive programme.

#### Navigate iTV pages

You can use the arrow and colour keys, the number keys and the **BACK** key to navigate the iTV pages. You can use the **Play** and **Pause** keys to watch videos within iTV pages.

#### Close iTV pages

Most iTV pages inform you which key to use to close. To force an iTV page to close, switch to the next TV channel and press **BACK**.

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2.2

## Channel Installation

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### Antenna Installation

- 1 - Press Quick settings > TV options > Settings > Channel > Channel Installation Mode and press **OK**.
- 2 - Select Antenna and then go back to Channel.
- 3 - Select Channel Setup > Channel Scan and press **OK**.

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### Cable Installation

- 1 - Press Quick settings > TV options > Settings > Channel > Channel Installation Mode and press **OK**.
- 2 - Select Cable and press **OK**.
- 3 - Select Channel Setup > Channel Scan and press **OK**.
- 4 - Press Navigation keys left or right to select a scan mode.

#### Full scan

- 1 - Select **Full**.
- 2 - Select **Scan** and press **OK** to start. This can take a few minutes.

#### Quick or Advance scan

- 1 - Select **Quick** or **Advance**.
- 2 - You can set the **Frequency (KHz)** and **Network ID**.
- 3 - Select **Scan** and press **OK** to start. This can take a few minutes.

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### Satellite Installation

- 1 - Press Quick settings > TV options > Settings > Channel > Channel Installation Mode and press **OK**.
- 2 - Select **General Satellite** or **Preferred Satellite** and then go back to Channel.
- 3 - Select Channel Setup > **Satellite Re-scan** or **Satellite Manual Tuning** and press **OK**.

#### Scan channels with Satellite re-scan

To start Satellite re-scan

- 1 - Press **Home** > Settings > Channel > Channel Installation Mode and press **OK**.
- 2 - Select **General Satellite** or **Preferred Satellite** and then go back to Channel.
- 3 - Select Channel Setup > **Satellite re-scan** and press **OK**.
- 4 - Select **Next** to proceed the scan or select **More** to find more scan types for different

satellite systems. Depending on your satellite system, there are 5 types of Satellite scan modes to select.

- **Single** - Scan the channels from single satellite.
- **Tone Burst** - Scan the channels from up to 2 satellites.
- **DiSEqC 1.0** - Scan the channels from up to 4 satellites.
- **Unicable I** - Scan the channels from up to 2 satellites with up to 8 User Band Number.
- **Unicable II** - Scan the channels from up to 4 satellites with up to 32 User Band Number.

5 - Select **Next** to start the scan immediately with current satellite settings.

6 - Select the **Satellite name** to view and change the satellite settings. Once the satellite settings are confirmed, press **Back** and select **Next** to start the scan.

The satellite setting items include all information of satellites.

- **Satellite Status** - The item is not allowed to modify when you select **Preferred satellite**, but allowed in **General satellite**. Press **Navigation keys left or right** to set the Status on or off of the selected satellite.
- **Satellite selection** - The item is only for indicating the name of satellite, not allowed to modify.
- **Scan mode** - Press **Navigation keys left or right** to set the scan mode to **Full** or **Network**.
- **Scan type** - Press **Navigation keys left or right** to set the scan type to **All**, **Only Encrypted Channels** or **Only Free Channels**.
- **Store type** - Press **Navigation keys left or right** to set the store type to **All**, **Only Digital Channels** or **Only Radio Channels**.
- **LNB configurations** - Press **OK** to view or adjust the LNB configurations for the **LNB Power**, **LNB Frequency**, **Tone 22KHz**, **Signal quality** and **Signal level**.
- **Transponder** - Press **OK** to adjust the Transponder settings for the **Frequency**, **Symbol Rate** and **Polarization**.
- **Signal quality** - View the signal quality of the satellite displayed by the value between 0 and 100.
- **Signal level** - View the signal level of the satellite displayed by the value between 0 and 100.

### Scan channels with Satellite manual tuning

Satellite Manual Tuning is used to scan only one satellite by setting the Transponder of selected satellite. In this condition of scanning, only Transponder adjustment is allowed, other setting items are disabled.

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## Update Channels

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### Automatic Channel Update

If you receive digital channels, you can set the TV to automatically update these channels.

Once a day, the TV updates the channels and stores new channels. The TV must be in standby to automatically update channels. You can switch off automatic update.

To switch off the automatic update

- 1 - Press **Quick settings > TV options > Settings > Channel**.
- 2 - Enter your PIN code if necessary.
- 3 - Select **Auto Channel Update** and press **OK**.
- 4 - Press **EXIT** to close the menu.

In certain countries, the Automatic channel update is done while watching TV or on any moment when the TV is in standby.

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### Manual Channel Update

You can always start a channel update yourself.

To start a channel update manually

- 1 - While watching TV, press **Quick settings > TV options > Settings > Channel > Channel Setup** and select one of below options.
  - **Channel Scan** - this kind of scan will auto install digital channels and analogue channels.
  - **Update Scan** - refers to an incremental scan, which only scans the frequencies that Channel Scan has not scanned.
  - **Analogue Manual Scan** - allow user to input analogue frequency to start manual scan.
  - **Single RF Scan** - is digital manual scan, this allow user to scan specific frequency by pressing left or right Navigation key on the RF Channel item.
  - **Manual Service Update** - is used to start background scan that new channels can be scanned without changing the existing channels.
- 2 - Enter your PIN code if necessary.
- 3 - Select **Search for Channels** and press **OK** to update channels. This can take a few minutes.
- 4 - Press **EXIT** to close the menu.

---

## Reception Quality

You can check the quality and signal strength of a digital channel. If you have your own antenna, you can reposition the antenna to try and improve the reception.

To check the reception quality of a digital channel

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel**

- Setup > **Single RF Scan** and press **OK**.  
2 - Select **RF Channel**.  
3 - Press **Navigation keys** left or right to select a channel and press **OK**. The signal level and signal quality is shown for this channel.  
4 - Press **EXIT** to close the menu.

---

## Analogue Manual Scan

Analogue TV channels can be manually installed.

To install analogue channels manually

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Analogue Manual Scan** and press **OK**.

---

## Channel Scan or Store Type

You can set the channel type for scanned or stored.

To set the channel scan type

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Channel Scan Type** and press **OK**.
- 3 - Select the scan type you want and press **OK**.
- 4 - Press **EXIT** to close the menu.

To set the channel store type

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Channel Store Type** and press **OK**.
- 3 - Select the store type you want and press **OK**.
- 4 - Press **EXIT** to close the menu.

---

## Favourite Network Select

To select the favourite network

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Favourite Network Select** and press **OK**.
- 3 - Follow the on-screen instructions.
- 4 - Press **EXIT** to close the menu.

---

## Channel Hide

You can skip the channels you do not want to watch.

To set the skipped channels

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Channel Hide** and press **OK**.
- 3 - Select the channels you want to skip and

press **OK**. The check mark is shown.

- 4 - Press **EXIT** to close the menu.

Note: You cannot skip the current watching channel.

---

## Channel Insert

You can change the channels order as you like.

To move channels

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Channel Insert** and press **OK**.
- 3 - Follow the on-screen description to select.
- 4 - Press **EXIT** to close the menu.

Note: Depending on your installation country or operator setting, **Channel Insert** option is not always available.

---

## Channel Swap

You can sort the channels by genre.

To sort the channels

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Channel Swap** and press **OK**.
- 3 - Follow the on-screen description to select.
- 4 - Press **EXIT** to close the menu.

Note: Depending on your installation country or operator setting, **Channel Swap** option is not always available.

---

## Channel Rename

You can edit the channels from the channel list.

To edit the channels

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Channel Rename** and press **OK**.
- 3 - Use the **Navigation keys** to select the channel and press **Yellow key for Select**.
- 4 - Follow the on-screen instructions.
- 5 - Press **EXIT** to close the menu.

Note: Depending on your installation country or operator setting, channel number editing is not always available.

---

## Analogue Channel Fine Tune

Analogue TV channels can be manually fine tuned.

To fine tune a channel

- 1 - Press **Quick settings > TV options > Settings > Channel > Channel Setup** and press **OK**.
- 2 - Select **Analogue Channel Fine-tune** and press **OK**.
- 3 - You can fine tune the channel.
- 4 - Press **EXIT** to close the menu.

---

2.3

## TV Guide

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### What You Need

With the TV Guide you can view a list of the current and scheduled TV programmes of your channels. Depending on where the TV guide information (data) is coming from, analogue and digital channels or only digital channels are shown. Not all channels offer TV Guide information.

The TV can collect TV Guide information for the channels that are installed on the TV. The TV cannot collect the TV Guide information for channels viewed from a digital receiver or decoder.

---

### TV Guide Data

**Quick settings > Navigation keys up > Channel Setup > Programme Guide.**

The TV Guide receives information (data) from broadcasters. In some regions and for some channels, TV Guide information might not be available. The TV can collect TV Guide information for the channels that are installed on the TV. The TV cannot collect the TV Guide information from channels viewed from a digital receiver or decoder.

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2.4

## Recording and Pause TV

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### Record Options

Press **Quick settings** while watching TV, then press **Navigation keys down** and select one of below menus.

#### Record List

You can view and manage your recordings in the list of recordings.

#### Device Info

Check the information about the storage device for TV recording. You can also format or test the speed of the device.

#### Schedule List

You can schedule a recording of an upcoming programme and view the scheduled list.

#### Time Shift Mode

Turn on/off Time Shift Mode. When the mode is on and your storage device is ready for the time shift recording, you can pause a TV broadcast and resume watching it a bit later.

---

## Recording

---

### What You Need

You can record a digital TV broadcast and watch it later.

To record a TV programme you need

- a connected USB Hard Drive formatted on this TV
- digital TV channels installed on this TV
- to receive channel information for the on screen TV Guide
- a reliable TV clock setting. If you reset the TV clock manually, recordings may fail.

You cannot record when you are using Pause TV.

In terms enforcement of copyright legislation, some DVB providers can apply different restriction by means of DRM (Digital Right Management) technology. In case of broadcasting protected channels, recording, record validity or number of views may be restricted. Recording may be completely prohibited. In case of trying to record a protected broadcasting or play back an expired recording, an error message can appear.

#### Note:

Recording function is only for digital TV broadcast. It is not possible to record content from external devices (e.g. HDMI).

---

### Record a Programme

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#### Record Now

To record the programme you are watching right now, press **REC** on the remote control. The recording will start immediately.

To stop the recording, press **REC** key again to stop recording.

When TV Guide data is available, the programme you are watching will be recorded from the moment you

pressed the recording key until the programme ends. If no TV Guide data is available, the recording will only last 30 minutes.

\* Note: The instant recording will be stopped when a reminder or scheduled recording is triggered.

---

## Schedule a Recording

You can schedule a recording of an upcoming programme for today or a few days from today (maximum of 8 days away). The TV will use the data from the TV Guide to start and end the recording.

### To record a programme

- 1 - Press **Quick settings** > **Navigation keys down** > **Record** > **Schedule list** and press **OK**.
- 2 - Follow the on-screen instruction. Use **Navigation keys** to select and set the settings.
- 3 - If you need to set a reminder, go to **Schedule Type** and change the setting to **Reminder**.

---

## List of Recordings

You can view and manage your recordings in the list of recordings.

### To open the list or recordings

- 1 - Press **Quick settings** > **Navigation keys down** > **Record** > **Record list** and press **OK**.
- 2 - With a recording selected in the list, you can use the colour keys to remove the recording or show the recording information.
- 3 - Press **EXIT** to close the menu.

Broadcasters can limit the number of days a recording can be viewed. When this period expires, the recording will be marked as expired. A recording in the list can show the number of days before it expires.

When a scheduled recording was prevented by the broadcaster or when the broadcast was interrupted, a recording is marked as **Failed**.

---

## Watch a Recording

### To watch a recording

- 1 - Press **Quick settings** > **Navigation keys down** > **Record** > **Record list** and press **OK**.
- 2 - In the list of recordings, press **OK** to play the recording.
- 3 - You can use the **Playback keys** for pause, play, rewind, or fast forward.
- 4 - To switch back to watch TV, press **EXIT**.

---

## Pause TV

---

### What You Need

You can pause a digital TV broadcast and resume watching it a bit later.

### To pause a TV programme you need

- a connected USB storage device formatted to FAT32
- digital TV channels installed on this TV

With the USB storage device connected and formatted, the TV continuously stores the TV broadcast you are watching. When you switch to another channel, the broadcast of the former channel is cleared. Also when you switch the TV to standby the broadcast is cleared.

You cannot use Pause TV when you are recording.

---

## Pause a Programme

### To pause and resume a broadcast

- To pause a broadcast, press **Pause**. A progress bar at the bottom of the screen appears briefly.
- To call up the progress bar, press **Pause** again.
- To resume watching, press **Play**.

With the progress bar on screen, press **Rewind** or press **Fast forward** to select from where you want to start viewing the paused broadcast. Press these keys repeatedly to change speed.

You can pause a broadcast for a maximum time span of 90 minutes.

To switch back to the live TV broadcast, press **EXIT**.

---

## Replay

Since the TV stores the broadcast you are watching, you can mostly replay the broadcast for a few seconds.

### To replay a current broadcast

- 1 - Press **Pause**
- 2 - Press **Rewind**. You can press it repeatedly to select from where you want to start viewing the paused broadcast. Press these keys repeatedly to change speed. At one point you will reach the start of the broadcast storage or the maximum time span.
- 3 - Press **Play** to watch the broadcast again.
- 4 - Press **BACK** repeatedly to watch the broadcast live.

## Netflix

If you have a Netflix membership subscription, you can enjoy Netflix on this TV. Your TV must be connected to the Internet. In your region, Netflix might only come available with future software updates.

To open Netflix, press **NETFLIX** on the remote control to open the Netflix App. You can open Netflix immediately from a TV in standby.

[www.netflix.com](http://www.netflix.com)

# Software & Specifications

## Update Software

### Update from Internet

If the TV is connected to the Internet, you may receive a message to update the TV software. You need a high-speed (broadband) Internet connection. If you receive this message, we recommend you to carry out the update.

- 1 - Press **Quick settings > TV options > Settings > Device Preferences > About > System update > Internet** and press **OK**.
- 2 - Follow the instructions on screen.

### Check from the Home page

- 1 - Press **HOME**.
- 2 - Select the **Notifications** icon from the top-right corner and press **OK**.

## Software Version

To view the current TV software version

- 1 - Select **Quick settings > TV options > Settings > Device Preferences > About**.
- 2 - The version, release notes and creation date are shown. Also, the Netflix ESN Number is shown if available.
- 3 - Press **EXIT** to close the menu.

## Power

Product specifications are subject to change without notice. For more specification details of this product, see the details on the Sony website.

### Power

- Mains power: AC 220–240V +/-10%
- Ambient temperature: 5°C to 35°C
- Power saving features: Sleep timer, Switch off timer, Picture off, No Signal Auto Power Off, Auto sleep.

## Operating System

Android OS:

Android 11

## Reception

- Aerial input : 75 ohm coaxial (IEC75)
- Tuner bands : Hyperband, S-Channel, UHF, VHF
- DVB : DVB-T2, DVB-C (cable) QAM
- Analogue video playback : SECAM, PAL
- Digital video playback : MPEG2 SD/HD (ISO/IEC 13818-2), MPEG4 SD/HD (ISO/IEC 14496-10), HEVC
- Digital audio playback (ISO/IEC 13818-3)
- Satellite aerial input : 75 ohm F-type
- Input frequency range : 950 to 2150MHz
- Input level range : 25 to 65 dBm
- DVB-S/S2 QPSK, symbol rate 2 to 45M symbols, SCPC and MCPC
- LNB : Unicable 1/2, DiSEqC 1.0, 1 to 4 LNBS supported, Polarity selection 13/19V, Band selection 22kHz, Tone burst mode, LNB current 500mA max

## Display Type

### Diagonal screen size

- 108 cm / 43 inch
- 126 cm / 50 inch

### Display resolution

- 3840 x 2160

## Display Input Resolution

### Supported Video only resolution

#### Resolution — Refresh rate

- 480i - 60 Hz
- 576i - 50 Hz
- 1080i - 50 Hz, 60 Hz

### Supported Computer/Video resolution

#### Resolutions — Refresh rate

- 640 x 480 - 60Hz
- 576p - 50Hz
- 720p - 50 Hz, 60 Hz
- 1920 x 1080 - 24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz
- 2560 x 1440 - 60 Hz
- 3840 x 2160p - 24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz



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## Connectivity

### TV Side

- Common Interface slot: CI+/CAM
- USB: USB 2.0
- Headphone out: Stereo mini-jack 3.5mm
- HDMI 1 in: ARC - Ultra HD - HDR

### TV Bottom

- Digital Audio out: Optical
- USB: USB 2.0
- Network LAN: RJ45
- Satellite in
- Antenna in (75 ohm)
- HDMI 2 in: Ultra HD - HDR
- HDMI 3 in: Ultra HD - HDR
- HDMI 4 in: Ultra HD - HDR

---

## Sound

- Output power (RMS) : 10W
- Dolby MS12 V2.5

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## Multimedia

### Connections

- USB 2.0
- Ethernet LAN RJ-45
- Wi-Fi 802.11n Dual Band (built-in)
- BT 5.0

### Supported USB file systems

- FAT 16, FAT 32, NTFS

### Playback formats

- Containers: PS, TS, M2TS, TTS, AVCHD, MP4, M4V, MKV, ASF, AVI, 3GP, Quicktime
- Video Codecs : AVI, MKV, HEVC, H264/MPEG-4 AVC, MPEG-1, MPEG-2, MPEG-4, VP9, HEVC (H.265), AV1
- Audio Codecs : MP3, WAV, AAC, WMA (v2 up to v9.2), WMA-PRO (v9 and v10)
- Subtitles :
  - Formats : SRT, SMI, SSA, SUB, ASS, TXT
  - Character encodings : UTF-8, UTF-16, UTF-16BE, UTF-16LE, GBK, GB2312, Windows-1250, Windows-1251, Windows-1252, Windows-1253, Windows-1254, Windows-1255, Windows-949
- Maximum Supported Data Rate :
  - MPEG-4 AVC (H.264) is supported up to High Profile @ L5.1. 30Mbps
  - H.265 (HEVC) is supported up to Main / Main 10 Profile up to Level 5.1 40Mbps
- Image Codecs : JPEG, GIF, PNG, BMP, HEIF

# Connect Devices

## 4.1

### About Connections

#### Connectivity Guide

Always connect a device to the TV with the highest quality connection available. Also, use good quality cables to ensure a good transfer of picture and sound.

When you connect a device, the TV recognizes its type and gives each device a correct type name. You can change the type name if you wish. If a correct type name for a device is set, the TV automatically switches to the ideal TV settings when you switch to this device in the Sources menu.

#### Antenna port

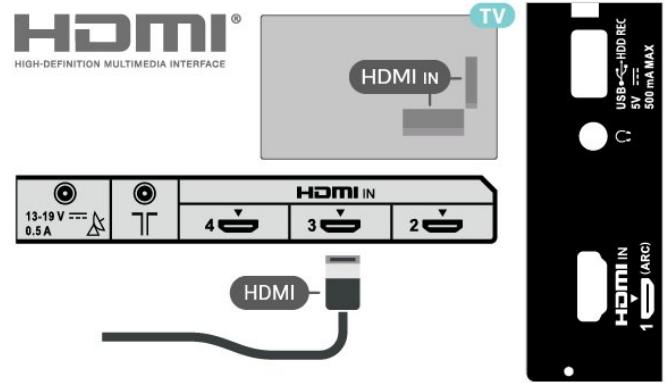
If you have a Set-top box (a digital receiver) or Recorder, connect the antenna cables to run the antenna signal through the Set-top box and/or Recorder first before it enters the TV. In this way, the antenna and the Set-top box can send possible additional channels to the Recorder to record.

#### HDMI ports

##### HDMI Quality

An HDMI connection has the best picture and sound quality. One HDMI cable combines video and audio signals. Use an HDMI cable for High Definition (HD) TV signals

For best signal quality transfer, use a High speed HDMI cable and do not use an HDMI cable longer than 5 m.



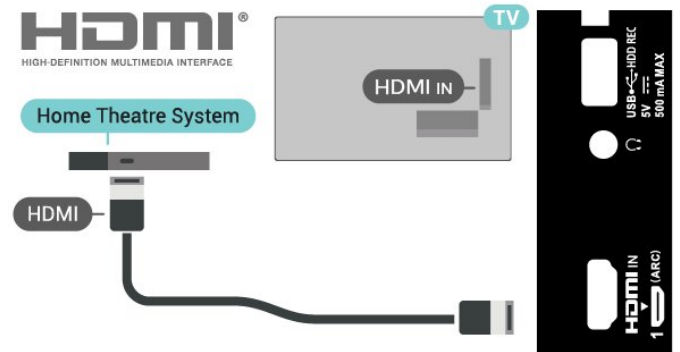
#### Copy protection

HDMI ports support HDCP 2.2 (High-bandwidth Digital Content Protection). HDCP is a copy protection signal that prevents copying content from a DVD disc or Blu-ray Disc. Also referred to as DRM (Digital Rights Management).

#### HDMI ARC

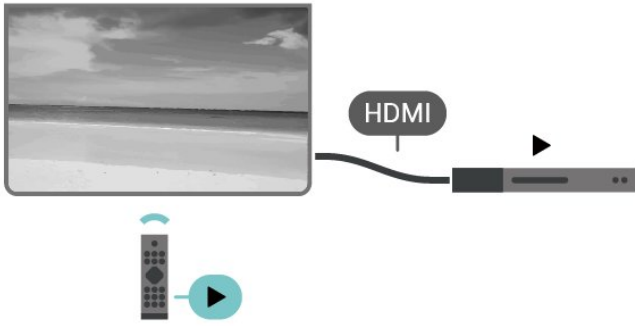
Only HDMI IN 1 (ARC) connection on the TV has HDMI ARC (Audio Return Channel).

If the device, typically a Home Theatre System (HTS), also has the HDMI ARC connection, connect it to HDMI IN 1 (ARC) on this TV. With the HDMI ARC connection, you do not need to connect the extra audio cable that sends the sound of the TV picture to the HTS. The HDMI ARC connection combines both signals.



#### HDMI CEC

Connect HDMI CEC-compatible devices to your TV, you can operate them with the TV remote control.



HDMI CEC (Consumer Electronic Control) must be switched on on the TV and the connected device.

#### Switch on CEC

Allow the TV to control HDMI device.

Quick settings > TV options > Settings > Device Preferences > Inputs > HDMI control.

#### Device auto power off

Turn off the HDMI devices with the TV.

Quick settings > TV options > Settings > Device Preferences > Inputs > Device auto power off.

#### TV auto power on

Power on the TV with HDMI devices.

Quick settings > TV options > Settings > Device Preferences > Inputs > TV auto power on.

#### HDMI EDID Version

Check the HDMI EDID version number.

Quick settings > TV options > Settings > Device Preferences > Inputs > HDMI EDID Version.

#### CEC Device List

Check the connected HDMI CEC device list.

Quick settings > TV options > Settings > Device Preferences > Inputs > CEC device list.

#### Note:

- HDMI CEC might not work with devices from other brands.
- The HDMI CEC functionality has different names on different brands. Some examples are: Anynet, Aquos Link, Bravia Theatre Sync, Kuro Link, Simplink and Viera Link. Not all brands are fully compatible. Example HDMI CEC branding names are property of their respective owners.

## CAM with Smart Card - CI+

### CI+

This TV is ready for the CI+ Conditional Access .

With CI+ you can watch premium HD programmes, like movies and sports, offered by digital TV operators in your region. These programmes are scrambled by the TV operator and descrambled with a prepaid CI+ module.

Digital TV operators provide a CI+ module (Conditional Access Module - CAM) and an accompanying smart card, when you subscribe to their premium programmes. These programmes have a high level of copy protection.

Contact a digital TV operator for more information on terms & conditions.



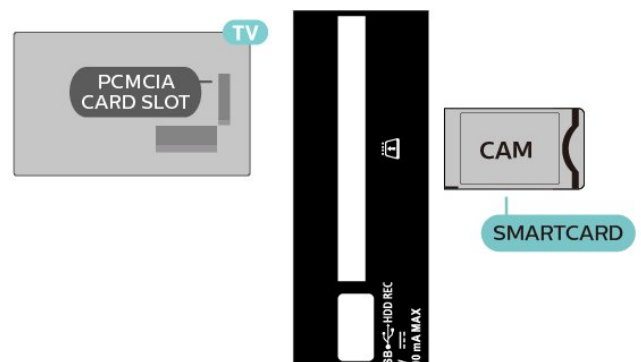
### Smart Card

Digital TV operators provide a CI+ module (Conditional Access Module - CAM) and an accompanying smart card, when you subscribe to their premium programmes.

Insert the smart card into the CAM module. See the instruction you received from the operator.

#### To insert the CAM in the TV

- 1 - Look on the CAM for the correct method of insertion. Incorrect insertion can damage the CAM and TV.
- 2 - While looking at the back of the TV, with the front of the CAM facing towards you, gently insert the CAM into the slot **PCMCIA CARD SLOT**.
- 3 - Push the CAM in as far as it will go. Leave it in the slot permanently.



When you switch on the TV, it may take a few minutes before the CAM is activated. If a CAM is inserted and

subscription fees are paid (subscription methods can differ), you can watch the scrambled channels supported by the CAM smart card.

The CAM and smart card are exclusively for your TV. If you remove the CAM, you will no longer be able to watch the scrambled channels supported by the CAM.

## Passwords and PIN codes

For some CAMs, you must enter a PIN code to watch its channels. When you set the PIN code for the CAM, we recommend you to use the same code you are using to unlock the TV.

To set the PIN code for the CAM

- 1 - Press **Input select**.
- 2 - Select the channel type you are using the CAM for watching TV.
- 3 - Select the TV operator of the CAM. The following screens come from the TV operator. Follow the on-screen instruction to look up the PIN code setting.

4.3

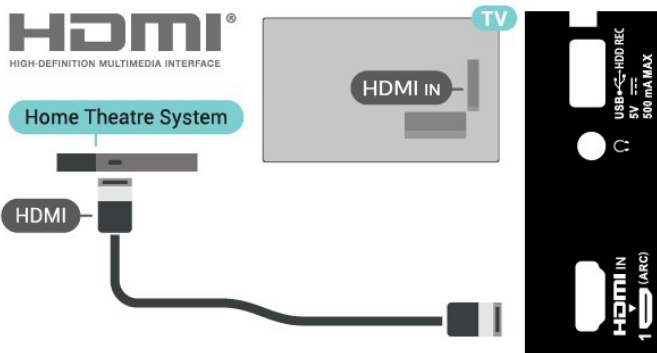
## Home Theatre System - HTS

### Connect with HDMI ARC

Use an HDMI cable to connect a Home Theatre System (HTS) to the TV. You can connect a Sony Soundbar or an HTS with a built-in disc player.

#### HDMI ARC

If your Home Theatre System has an HDMI ARC connection, you can use HDMI ARC connection on the TV to connect. With HDMI ARC, you do not need to connect the extra audio cable. The HDMI ARC connection combines both signals. Since **HDMI IN 1 (ARC)** on the TV can offer the Audio Return Channel (ARC) signal, the TV can only send the ARC signal to this HDMI connection.



#### Audio to video synchronisation (sync)

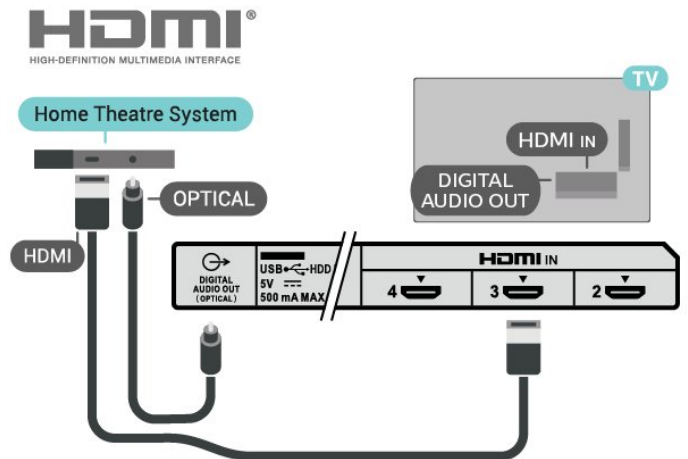
If the sound does not match the video on screen, you

can set a delay on most Home Theatre Systems with a disc player to match the sound with the video.

## Connect with HDMI

Use an HDMI cable to connect a Home Theatre System (HTS) to the TV. You can connect a Sony Soundbar or an HTS with a built-in disc player.

If the Home Theatre System has no HDMI ARC connection, add an optical audio cable to send the sound of the TV picture to the Home Theatre System.



#### Audio to video synchronisation (sync)

If the sound does not match the video on screen, you can set a delay on most Home Theatre Systems with a disc player to match the sound with the video.

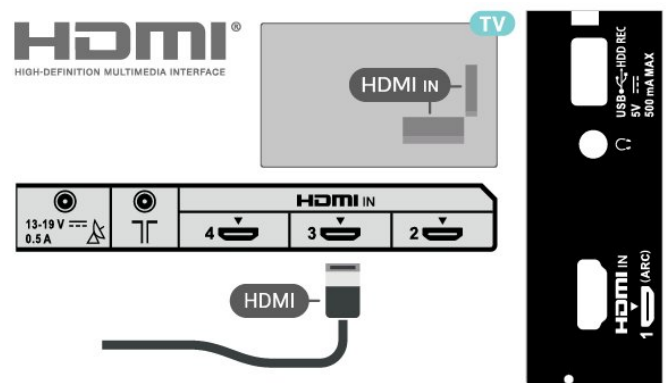
4.4

## Video Device

### HDMI

Use a **High speed HDMI** cable to connect with best picture and sound quality.

For best signal quality transfer, use a High speed HDMI cable and do not use an HDMI cable longer than 5 m, and also connect devices supporting HDR on any one of HDMI connections.



## Copy protection

HDMI ports support HDCP (High-bandwidth Digital Content Protection). HDCP is a copy protection signal that prevents copying content from a DVD disc or Blu-ray Disc. Also referred to as DRM (Digital Rights Management).

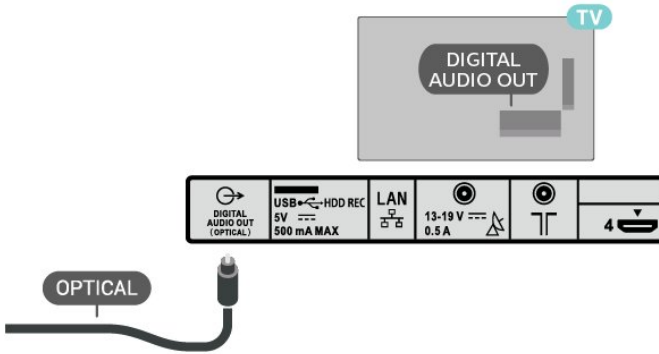
4.5

## Audio Device

### Digital Audio Out - Optical

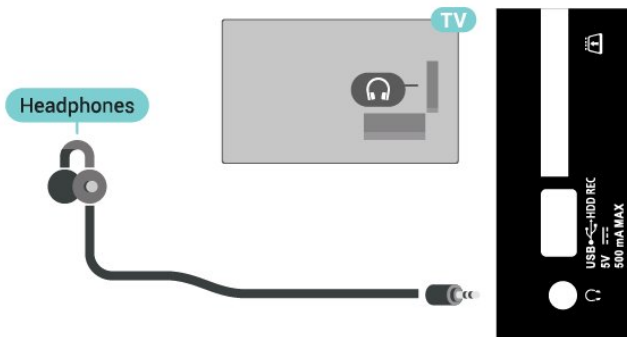
Audio Out - Optical is a high quality sound connection.

This optical connection can carry 5.1 audio channels. If your device, typically a Home Theatre System (HTS), has no HDMI ARC connection, you can use this connection with the Audio In - Optical connection on the HTS. The **DIGITAL AUDIO OUT (OPTICAL)** connection sends the sound from the TV to the HTS.



## Headphones

You can connect a set of headphones to the headphone connector on the back of the TV. The connection is a mini-jack 3.5mm.



4.6

## USB Hard Drive

### What You Need

If you connect a USB Hard Drive, you can pause or record digital TV broadcasts. The TV broadcast must be a digital broadcast (DVB broadcasts or similar).

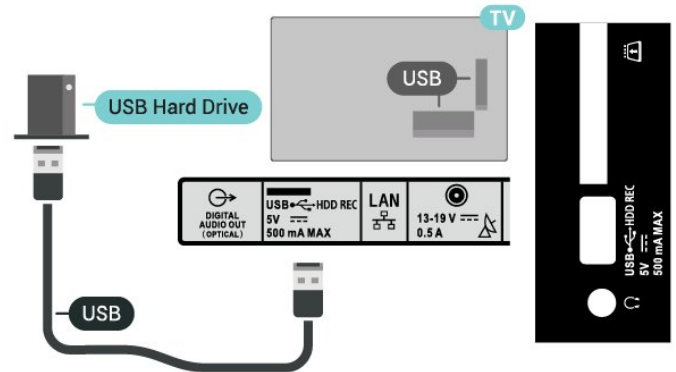
### Installation

Before you can pause or record a broadcast, you must connect and format a USB Hard Drive. Formatting removes all files from the USB Hard Drive.

- 1 - Connect the USB Hard Drive to one of the **USB** connections on the TV. Do not connect another USB device to the other USB ports when formatting.
- 2 - Switch on the USB Hard Drive and the TV.
- 3 - When the TV is tuned to a digital TV channel, press **Pause**. Trying to pause will start the formatting.

Follow the instructions on screen.

When the USB Hard Drive is formatted, leave it connected permanently.



### Warning

The USB Hard Drive is formatted exclusively for this TV, you cannot use the stored recordings on another TV or PC. Do not copy or change recording files on the USB Hard Drive with any PC application. This will corrupt your recordings. When you format another USB Hard Drive, the content on the former will be lost. A USB Hard Drive installed on your TV will need reformatting for use with a computer.

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## Formatting

Before you can pause or record a broadcast, or store apps, you must connect and format a USB Hard Drive. Formatting removes all files from the USB Hard Drive.

### Warning

The USB Hard Drive is formatted exclusively for this TV, you cannot use the stored recordings on another TV or PC. Do not copy or change recording files on the USB Hard Drive with any PC application. This will corrupt your recordings. When you format another USB Hard Drive, the content on the former will be lost. A USB Hard Drive installed on your TV will need reformatting for use with a computer.

### To format a USB Hard Drive

- 1 - Connect the USB Hard Drive to one of the USB connections on the TV. Do not connect another USB device to the other USB ports when formatting.
- 2 - Switch on the USB Hard Drive and the TV.
- 3 - Select **Recordings** if you want to perform Pause TV and Recordings. Follow the instructions on screen.
- 4 - All files and data will be removed after formatting.
- 5 - When the USB Hard Drive is formatted, leave it connected permanently.

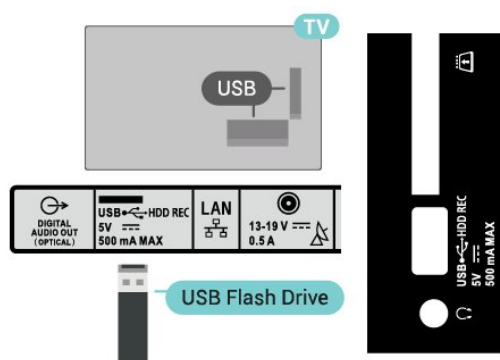
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4.7

## USB Flash Drive

You can view photos or play your music and videos from a connected USB flash drive.

Insert a USB flash drive in one of the USB connections on the TV while the TV is switched on.



To view the files from the USB flash drive, you need to add the **MMP (MultiMediaPlayer)** app to the Home screen first. Press **HOME**, clicking the Apps icon at the left end of the Apps row. You can add MMP apps from the Apps page.

To stop watching the USB flash drive content, press **EXIT** or select another activity. Exit the MMP

app before you disconnect the flash drive.

To remove the USB flash drive safely

- 1 - Press **HOME**.
- 2 - Select the **Notifications** icon from the top-right corner and press **OK**.
- 3 - Select your flash drive and press **OK**.
- 4 - Select **Eject** and press **OK**.
- 5 - Wait until the eject procedure is finished and then pull out the flash drive.

### Ultra HD on USB

You can view photos in Ultra HD resolution from a connected USB device or flash drive. The TV will downscale the resolution if the resolution of the photo is higher.

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4.8

## Videos, Photos, Music & Text

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### From a USB Connection

You can view your photos or play your music and videos from a connected USB flash drive.

With the TV switched on, plug in a USB flash drive to one of the USB connections.

- 1 - Press **HOME**, select **MMP** from the Apps list and press **OK**.
- 2 - Use **Navigation** keys to select the file type.
- 3 - Follow the on-screen instructions to play the files.

---

### Play your Videos

#### Play a video

- 1 - Press **HOME**, select **MMP** from the Apps list and press **OK**.
- 2 - Use **Navigation** keys to select **Video**.
- 3 - Select one of the videos, and press **OK** to play.

#### During the video playback

- Press **Quick settings** to show the options.



#### Play, Pause

Press **OK** to play or pause the video.

#### Repeat

Play videos repeatedly or once.

#### Show Info

Display the information of the video file.

### Display Mode

Adjust the display mode.

### Picture settings

Adjust the picture settings.

### Sound settings

Adjust the sound settings.

### Sound Tracks

Display the soundtracks.

### Last Memory

When set to **On**, you can play the video where you left last time. Set to **Off** to turn off the function.

### Seek

Jump to the playback time as you entered.

### Subtitles On/Off

Set the subtitles to on or off.

### Subtitle Language

When Subtitles set to **On**, you can set the subtitle language.

### Subtitle encoding

When Subtitles set to **On**, you can set the subtitle encoding for your preference.

---

## View your Photos

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### View Photos

#### View a photo

1 - Press **HOME**, select **MMP** from the Apps list and press **OK**.

2 - Use **Navigation keys** to select **Photo**.

3 - Select one of the photos, and press **OK**.

When browsing photo thumbnails, press **Quick settings** to

#### Sort

Sort the photo files by your preference.

#### Media type

Sort the files by media type.

#### Thumbnail size

Change the thumbnail viewing size.

#### Copy

Copy the file and place it to your preferred folder.

#### Paste

Place the copied file to your preferred folder.

#### Delete

Delete the selected file.

#### Recursive parser

Select from the **Recursive parser** or **Normal parser**.

#### Photo Frame

Select to start the Photo Frame mode.

---

### Photo Options

When viewing photo files, press **Quick settings** to

#### Pause

Press **OK** to pause the photos.

#### Repeat

View the pictures repeatedly or once only.

#### Shuffle on, Shuffle off

View the pictures in sequential order, or at random.

#### Duration

Set the speed of the slideshow.

#### Effect

Set the transition from one picture to the next.

#### Show info

Display the information of the picture file.

#### Photo Frame image

Set the picture as Photo Frame image.

#### Picture settings

Adjust the picture settings.

---

## Play your Music

### Play music

1 - Press **HOME**, select **MMP** from the Apps list and press **OK**.

2 - Use **Navigation keys** to select **Music**.

3 - Select one of the audio, and press **OK** to play.

#### During the audio playback

• Press **Quick settings** to show the options.

#### Play, Pause

Press **OK** to play or pause the music.

#### Repeat

Play music repeatedly or once.

#### Shuffle On, Shuffle Off

Play audio in sequential order, or at random.

#### Show Info

Display the information of the music file.

#### Lyric Options

Select the options when the lyrics are available.

#### Picture Off

Close the screen when play the music for energy saving.

#### Sound settings

Adjust the sound settings.

---

## View your Text

#### View text

1 - Press **HOME**, select **MMP** from the Apps list and press **OK**.

2 - Use **Navigation keys** to select **Text**.

3 - Select one of the text file, and press **OK** to preview.

#### During the preview

- Each file lasts 3 seconds for preview. Press **OK** to pause the preview to read.

- Press **Quick settings** to show the options.

#### Play, Pause

Press **OK** to play or pause the text file preview.

#### Repeat

Preview the text files repeatedly or once.

#### Shuffle On, Shuffle Off

Preview the text files in sequential order, or at random.

#### Font

Adjust the text **Size**, **Style**, and **Colour**.

#### Show Info

Display the information of the text file.



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# Connecting to a Network

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## Bluetooth

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### What You Need

You can connect a wireless device with Bluetooth® to this TV – a wireless speaker or headphones.

To play the TV sound on a wireless speaker, you must pair the wireless speaker with the TV. The TV can only play the sound on one speaker at a time.

#### Attention - Audio to Video synchronisation

Many Bluetooth speaker systems have a high, so called, 'latency'. High latency means that the audio lags behind the video, causing unsynchronised 'lip sync'. Before you purchase a wireless Bluetooth speaker system, inform yourself about the newest models and look for a device with a low latency rating. Ask your dealer for advice.

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### Pairing a Device

Position the wireless speaker within a distance of 5 meters from the TV. Read the user manual of the device for specific information on pairing and on wireless range. Make sure the Bluetooth setting on TV is switched on.

Once a wireless speaker is paired, you can select it to play the TV sound. When a device is paired, you do not need to pair it again unless you remove the device.

To pair a bluetooth device with the TV

- 1 - Switch on the bluetooth device and place it within range of the TV.
- 2 - Press **Quick settings > TV options > Settings > Remote & Accessories** and press **OK**.
- 3 - Follow the instructions on screen. You will pair the device with the TV and the TV will store the connection. You might need to unpair a paired device first if the maximum number of paired devices was reached.
- 4 - Press **EXIT** to close the menu.

---

### Select a Device

To select a wireless device

- 1 - Press **Quick settings > TV options > Settings > Remote & Accessories** and press **OK**.
- 2 - In the list, select the wireless device and press **OK**.
- 3 - Press **EXIT** to close the menu.

---

### Rename a Device

To rename a wireless device

- 1 - Press **Quick settings > TV options > Settings > Remote & Accessories** and press **OK**.
- 2 - In the list, select the wireless device and press **OK**.
- 3 - Select **Change name** and press **OK**.
- 4 - Enter a new name for the device.
- 5 - Press **EXIT** to close the menu.

---

### Remove a Device

You can connect or disconnect a wireless Bluetooth device. You can also remove a wireless Bluetooth device. If you remove a Bluetooth device, the device will be unpaired.

To remove or disconnect a wireless device

- 1 - Press **Quick settings > TV options > Settings > Remote & Accessories** and press **OK**.
- 2 - In the list, select the wireless device and press **OK**.
- 3 - Select **Unpair** and press **OK**.
- 4 - Press **EXIT** to close the menu.

## Connect your Android TV

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### Network and Internet

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#### Home Network

To enjoy the full capabilities of your Android TV, your TV must be connected to the Internet.

Connect the TV to a home network with a high-speed Internet connection. You can connect your TV wirelessly or wired to your network router.

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## Connect to Network

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### Wireless Connection

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#### What You Need

To connect the TV to the Internet wirelessly, you need a Wi-Fi router with a connection to the Internet.

Use a high-speed (broadband) connection to the Internet.



#### Turn Wi-Fi On or Off

Quick settings > TV options > Settings > Network & internet > Wi-Fi.

---

#### Make the Connection

Quick settings > TV options > Settings > Network & internet > Wi-Fi.

- 1 - In the list of found networks, select on your wireless network. If your network is not in the list because the network name is hidden (you switched off the SSID broadcast of the router), select **Add new network** to enter the network name yourself.
- 2 - Follow the on-screen instruction.
- 3 - A message will be shown when the connection is successful.

---

#### Problems

##### Wireless network not found or distorted

- Microwave ovens, DECT phones or other Wi-Fi 802.11b/g/n devices in your proximity might disturb the wireless network.
- Make sure that the firewalls in your network allow access to the TV's wireless connection.
- If the wireless network does not work properly in your home, try the wired network installation.

##### Internet does not work

- If the connection to the router is OK, check the router connection to the Internet.

##### The PC and Internet connection are slow

- Look in your wireless router's user manual for information on indoor range, transfer rate and other factors of signal quality.
- Use a high-speed (broadband) Internet connection

for your router.

#### DHCP

- If the connection fails, you can check the DHCP (Dynamic Host Configuration Protocol) setting of the router. DHCP should be switched on.

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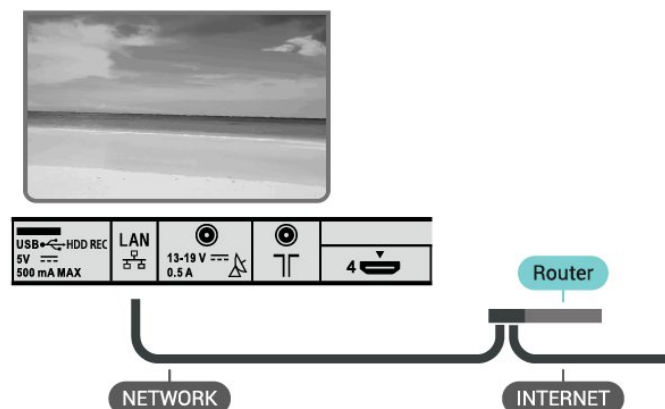
### Wired Connection

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#### What You Need

#### What You Need

To connect the TV to the Internet, you need a network router with a connection to the Internet. Use a high-speed (broadband) connection to the Internet.



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#### Make the Connection

- 1 - Connect the router to the TV with a network cable (Ethernet cable\*\*).
- 2 - Make sure that the router is switched on.
- 3 - The TV constantly searches for the network connection.
- 4 - A message will be shown when the connection is successful.

If the connection fails, you can check the DHCP setting of the router. DHCP should be switched on.

\*\*To fulfill EMC regulations, use a shielded FTP Cat. 5E Ethernet cable.

---

#### Network Settings

##### Proxy settings

Quick settings > TV options > Settings > Network & internet > Proxy settings.

Enter a valid proxy hostname manually by selecting **Manual**.

## Network Configuration - IP settings

Quick settings > TV options > Settings > Network & internet > IP settings.

If the connection fails, you can check the DHCP setting of the router.

Alternatively, if you are an advanced user and want to install your network with static IP addressing, set the TV to Static IP.

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## Google Account

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### Sign In

To enjoy the full capabilities of your Android TV, you can sign in to Google with your Google Account.

By signing in you'll be able to play your favourite games across phone, tablet and TV. You'll also get customised video and music recommendations on your TV home screen as well as access to YouTube, Google Play and other apps.

Use your existing **Google Account** to sign in to Google on your TV. A Google Account consists of an email address and a password. If you don't have a Google Account yet, use your computer or tablet to create one ([accounts.google.com](https://accounts.google.com)). To play games with Google Play, you need a Google+ profile. If you did not sign in during the first TV installation, you can always sign in later.

To sign in after you did the TV installation

- 1 - Select **Settings**.
- 2 - Select **Account & Sign-In** and press **OK**.
- 3 - Select **Sign In** and press **OK**.
- 4 - Select **Use your remote** and press **OK**.
- 5 - With the on-screen keyboard, enter your email address and press **OK**.
- 6 - Enter your password and press **OK** to sign in.
- 7 - Press **EXIT** to close the menu.

---

## Android Settings

You can set or view several Android specific settings or information. You can find the list of apps installed on your TV and the storage space they need. You can set the language you like to use with Voice Search. You can configure the onscreen keyboard or allow apps to use your location. Explore the different Android settings. You can go to [www.support.google.com/androidtv](https://www.support.google.com/androidtv) for more information on these settings.

To open these settings

- 1 - Select **Settings** and press **OK**.
- 2 - Explore the different Android settings.

- 3 - Press **EXIT** to close the menu.

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## Home Screen

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### About the Home Screen

To enjoy the benefits of your Android TV, connect the TV to the Internet.

Like on your Android smartphone or tablet, the Home screen is the centre of your TV. From the Home screen you can decide what to watch by browsing entertainment options from app and live TV. Your Home has channels to let you discover great contents from your favourite apps. You can also add additional channels or find new apps to get more contents.

The Home screen is organised in channels

### Apps

Your favourite Apps are placed on the first row. You can find more apps in the Apps page which can be opened by clicking the **Apps** icon at the left end of the **Apps** row. You can also add more apps as favourite from the Apps page.

### Live TV

Live TV channel shows the currently running programmes from the installed channels.

### Play Next channel

You can always know what to watch next from **Play Next** channel on the Home screen. Start watching from where you left off and get notifications about new episodes in the **Play Next** channel. Press and hold **Select** on a movie or TV show to add it directly to the **Play Next** channel.

### Google Play Movies & TV channel

Rent movies or TV shows on this channel from **Google Play Movies & TV**.

### YouTube channel

This channel contains your Recommended, Subscriptions or Trending YouTube videos.

### Customize channels

Click the **Customize channels** button to add and remove channels from your Home screen.

See also [www.support.google.com/androidtv](https://www.support.google.com/androidtv)

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## Open the Home Screen

To open the Home screen and open an item

- 1 - Press **HOME**.
- 2 - Select an item and press **OK** to open or start it.
- 3 - Press **BACK** continuously or press **HOME** can

go back to Home screen.

When opening the Home screen, the background application/content playback will stop. You have to select the application or content from the Home screen to resume.

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5.3

## Apps

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### About Apps

You can find your favourite Apps on **Apps** row in the Home menu.

Like apps on your smartphone or tablet, the apps on your TV offer specific functions for an enriched TV experience. Apps like YouTube, games, video stores or weather forecasts (a.o.).

Apps can come from the **Google Play™ Store** . To get you started, some practical apps are pre-installed on your TV.

To install apps from the **Google Play™ Store** , the TV must be connected to the Internet. You must sign in with a Google Account to use the Google Play apps and **Google Play™ Store** .

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## Google Play

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### Movies and TV

With **Google Play Movies & TV** , you can rent or buy movies and TV shows to watch on TV.

#### What You Need

- your TV must be connected with the Internet
- you must sign in with your Google Account on TV
- add a credit card to your Google Account to purchase movies and TV shows

To rent or buy a movie or TV show

- 1 - Press **HOME**.
- 2 - Select **Google Play Movies & TV**.
- 3 - Select a movie or TV show and press **OK**.
- 4 - Select the purchase you want and press **OK**. You will be taken through the purchase procedure.

To watch a rented or bought movie or TV show

- 1 - Press **HOME**.
- 2 - Select **Google Play Movies & TV**.
- 3 - Select the movie or TV show from your library in the app, select the title and press **OK**.
- 4 - You can use the **Play**, **Pause**, **Rewind** or **Fast forward** keys on the remote control.
- 5 - To stop the **Movies & TV** app, press **BACK** repeatedly or press **EXIT**.

If the App is not on you Home screen, you can add

via the Apps page or by the **Add app to favourites** item on the **Apps** row. Some Google Play products and features aren't available in all countries.

Find more information on [www.support.google.com/androidtv](http://www.support.google.com/androidtv)

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### Music

With YouTube Music you can play your favourite music on TV and buy new music on your computer or mobile device. Or, on your TV, you can sign up for All Access, the YouTube Music subscription. Alternatively, you can play the music you already own, stored on your computer.

#### What You Need

- your TV must be connected with the Internet
- you must sign in with your Google Account on TV
- add a credit card to your Google Account to take a music subscription

To start YouTube Music

- 1 - Press **HOME**.
- 2 - Select **YouTube Music**.
- 3 - Select the music you want and press **OK**.
- 4 - To stop the Music app, press **BACK** repeatedly or press **EXIT**.

If the App is not on you Home screen, you can add via the Apps page or by the **Add app to favourites** item on the **Apps** row. Some Google Play products and features aren't available in all countries.

Find more information on [www.support.google.com/androidtv](http://www.support.google.com/androidtv)

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### Games

With Google Play Games, you can play games on TV. Online or offline.

You can see what your friends are playing currently or you can join the game and compete. You can track your achievements or start wherever you left off.

#### What You Need

- your TV must be connected with the Internet
- you must sign in with your Google Account on TV
- add a credit card to your Google Account to purchase new games

Start the Google Play Games app to select and install new game apps on your TV. Some games are free of charge. A message appears if a particular game needs a gamepad to play the game.

To start or stop a Google Play Game

- 1 - Press **HOME**.
- 2 - Select **Google Play Games**.
- 3 - Select a game to play or select a new game to install and press **OK**.

4 - When done, press **BACK** repeatedly or press **EXIT** or stop the app with its dedicated exit/stop button.

If the App is not on your Home screen, you can add via the Apps page or by the **Add app to favourites** item on the **Apps** row. Some Google Play products and features aren't available in all countries.

Find more information  
on [www.support.google.com/androidtv](http://www.support.google.com/androidtv)

---

## Google Play Store

From the Google Play Store you can download and install new apps. Some apps are free of charge.

### What You Need

- your TV must be connected with the Internet
- you must sign in with your Google Account on TV
- add a credit card to your Google Account to purchase apps

To install a new app

- 1 - Press **HOME**.
- 2 - Select **Google Play Store** and press **OK**.
- 3 - Select the app you want to install and press **OK**.
- 4 - To close the **Google Play Store**, press **BACK** repeatedly or press **EXIT**.

### Parental controls

In the Google Play Store, you can hide apps according to users/buyers maturity. You need to enter a PIN code to select or change the level of maturity.

To set the parental control

- 1 - Press **HOME**.
- 2 - Select **Google Play Store** and press **OK**.
- 3 - Select **Settings > Parental controls**.
- 4 - Select the level of maturity you want.
- 5 - On request, enter the PIN code.
- 6 - To close the **Google Play Store**, press **BACK** repeatedly or press **EXIT**.

If the App is not on your Home screen, you can add via the Apps page or by the **Add app to favourites** item on the **Apps** row. Some Google Play products and features aren't available in all countries.

Find more information  
on [www.support.google.com/androidtv](http://www.support.google.com/androidtv)

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## Payments

To make a payment on Google Play on TV, you must add a form of payment - a credit card (outside the United States) - to your Google Account. When you purchase a movie or TV show, you will be charged on this credit card.

To add a credit card

1 - On your computer, go to [accounts.google.com](http://accounts.google.com) and sign in with the Google Account you will use with Google Play on TV.

2 - Go to [wallet.google.com](http://wallet.google.com) to add a card to your Google Account.

3 - Enter your credit card data and accept the terms and conditions.

---

## Start or Stop an App

You can start an app from the Home screen.

To start an app

- 1 - Press **HOME**.
- 2 - Move to **Apps** row, select the app you want and press **OK**.
- 3 - To stop an app, press **BACK** or press **EXIT** or stop the app with its dedicated exit/stop button.

When opening the Home screen, the background application/content playback will stop. You have to select the application or content from the Home screen to resume.

---

## Manage Apps

If you stop an app and return to the Home menu, the app is not really stopped. The app is still running in the background to be readily available when you start it again. To run fluently, most apps need to save some data in the cache memory of the TV. It might be good to stop an app completely or clear the cache data of a particular app to optimise the overall performance of apps and to keep memory usage low on your Android TV. Also, it is best to uninstall apps that you are not using anymore.

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5.4

## Google Cast

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### What You Need

If an app on your mobile device has Google Cast, you can cast your app on this TV. On the mobile app, look for the Google Cast icon. You can use your mobile device to control what's on TV. Google Cast works on Android and iOS.

Your mobile device must be connected to the same Wi-Fi home network as your TV.

### Apps with Google Cast

New Google Cast apps come available every day. You can already try it with YouTube, Chrome, Netflix, Photowall ... or Big Web Quiz for Chromecast. See also [google.com/cast](http://google.com/cast)

Some Google Play products and features aren't available in all countries.

Find more information on [www.support.google.com/androidtv](http://www.support.google.com/androidtv)

---

## Cast to Your TV

To cast an app to the TV screen

- 1 - On your smartphone or tablet, open an app that supports Google Cast.
- 2 - Tap the Google Cast icon.
- 3 - Select the TV you would like to cast to.
- 4 - Press **Play** on your smartphone or tablet. What you selected should start playing on TV.

---

# Settings

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## 6.1

### TV options

Press **Quick settings** to select one of below menus, then press **OK**.

#### Picture

Adjust the picture settings.

#### Sound

Adjust the sound settings.

#### Accessibility

Adjust accessibility menu.

#### Power

Set the timers for saving energy.

#### CI Card

Adjust the CI card settings.

#### Advanced options

Adjust advanced settings.

#### Settings

View settings menu.

---

## 6.2

### Picture Settings

---

#### Picture Mode

Select a style

**Quick settings** > **TV options** > **Picture** > **Picture mode**.

For easy picture adjustment, you can select a preset picture style.

- **User** – The picture preferences you set during the first start up.
- **Standard** – Most energy conscious setting – Factory setting
- **Vivid** – Ideal for daylight viewing
- **Sport** – Ideal for sport
- **Movie** – Ideal for watching movies with original studio effect
- **Game\*** – Ideal for playing games
- **Energy saving** – Ideal for saving energy

\* Picture style – Game is not available for some video sources.

---

### Display Mode

If the picture is not filling the whole screen, if black bars are showing on the top or bottom or at both sides, you can adjust the picture to fill the screen completely.

To select one of the basic settings to fill the screen...

**Quick settings** > **TV options** > **Picture** > **Display Mode**.

#### Automatic

Automatically zooms in the picture to fit the screen with original aspect ratio. No content lost visible.

#### Super zoom

Remove the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC.

#### 4:3

Display the classic 4:3 format.

#### Movie expand 14:9

Scale 4:3 format to 14:9. Not recommended for HD or PC.

#### Movie expand 16:9

Scale 4:3 format to 16:9. Not recommended for HD or PC.

#### Wide screen

Stretches the picture to a 16:9 format.

#### Full

Automatically enlarges the picture to fill the screen. Picture distortion is minimal, subtitles remain visible. Not suitable for PC input. Some extreme picture content can still show black bars. Picture content aspect ratio may change.

#### Unscaled

Provide maximum detail for PC.

---

### Other Picture Settings

**Quick settings** > **TV options** > **Picture** and press **OK**.

#### Backlight

Adjust the video backlight intensity.

#### Brightness

Set the level of brightness of the picture signal.

**Note:** Setting of brightness much away from reference value (50) may result lower contrast.

#### Contrast

Adjust the contrast value of the picture.

### Saturation

Adjust the colour saturation value of the picture.

### HUE

Adjust the hue value of the picture.

### Sharpness

Adjust the level of sharpness in fine detail of the picture.

### Gamma

Set a non-linear setting for picture luminance and contrast. This is a setting intended for expert users.

### Colour Temperature

Set the picture to a preset colour temperature or adjust the setting yourself.

### Advanced video

Set the advance settings.

- DNR:  
Digital Noise Reduction, image noise reduction filters to reduces the image noise.
- MPEG NR:  
MPEG Noise Reduction feature to improve the quality of pictures by reducing the noise without compromising the picture resolution.
- Adaptive Luma Control:  
Dynamic video contrast enhancement to adjust the Luma level of the picture signal automatically. If the PC Mode setting is On, this feature will be off.
- Local Contrast Control:  
Enhance the contrast level in local area for the image.
- PC Mode:  
Switch TV to PC mode to have original picture look.

### Colour Tuner

Fine tune the colour setting yourself.

### 11 Point White Balance Correction

Customise the whitepoint balance based on the selected colour temperature of the picture.

### Reset to Default

Reset the current picture settings to default.

6.3

## Sound Settings

### Sound Style

Quick settings > TV options > Sound > Sound style > and press OK.

For easy sound adjustment, you can select a preset setting with sound style.

- User - The sound preferences you set during the first start up
- Standard - Most neutral sound setting
- Vivid - Ideal for daylight viewing
- Sport - Ideal for sports programmes
- Movie - Ideal for watching movies
- Music - Ideal for listening to music
- News - Ideal for speech

### Other Sound Settings

Quick settings > TV options > Sound and press OK.

#### Balance, Bass, Treble

Adjust the levels of these options according to your personal preference.

#### Sound Surround

Switch on or off the surround sound.

#### Equalizer Detail

Adjust the level of equaliser for your preference.

#### Speakers

Set the TV to play the sound on TV or on the connected audio system.

You can select where you want to hear the TV sound and how you want to control it.

- If you select **TV speakers**, the TV speakers are always on.
- If you select **HDMI sound system**, the TV speakers are muted.
- If you select **TV speakers off**, you permanently switch off the TV speakers.

#### Digital Output

Digital output settings are available for optical and HDMI ARC sound signals.

Set the audio out signal of the TV to fit the sound capabilities of the connected Home Theatre System.

#### SPDIF Delay

For some Home Theatre Systems you might need to adjust the audio sync delay to synchronise the audio to the video. Select 0 if a sound delay is set on your Home Theatre System.



## Auto Volume Control

Adjust large sound level differences between channels and inputs automatically.

### Reset to Default

Reset the current sound settings to default.

---

6.4

## Accessibility Settings

With Audio description switched on, the TV is prepared for use of the deaf, hard of hearing, blind or partially sighted people.

### Accessibility for blind or partially sighted people

Quick settings > TV options > Accessibility Settings > Audio Type

Digital TV channels can broadcast special audio commentary describing what is happening on screen. You can set the audio type with below settings.

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

### Visually Impaired

When Audio Description is on, more Visually Impaired options are available. Set the speaker, headphone volume of the normal audio with the audio commentary or set the extra audio effects in the commentary audio. You can adjust the effect with below settings.

- Speaker
- Headphone
- Volume
- Pane and Fade
- Audio for Visually Impaired
- Fader Control

### AC4 Dialogue Enhancement

Turn on/off or set the level of dialogue enhancement to increase the intelligibility of dialogue and commentary when the audio stream is AC4 type.

---

6.5

## Power Settings

Quick settings > TV options > Power.

### Set Sleep timer

Power > Sleep timer.

TV switches to standby mode automatically after a

preset time.

### Set screen off to save energy consumption

Power > Picture off.

Select Picture off, the TV screen is switched off, to switch the TV screen back on, press any key on the remote control.

### Set TV switch off timer

Power > Switch off timer.

Select Switch off timer, the TV switches off automatically at a preset time to save energy.

### No signal auto power off

Power > No signal auto power off.

Press **Navigation keys** up or down to set the value. Select **Off** to deactivate the automatic switch off.

\* If you use the TV as a monitor or use a digital receiver to watch TV (a Set-Top Box - STB) and you do not use the remote control of the TV, you should deactivate this automatic switch off, to set the value to **Off**.

### Set auto sleep timer

Power > Auto sleep.

TV switches to sleep mode automatically after a preset time if the TV does not receive any command from remote control.

### Set Power saving

Power > Power saving

- Select **On** to reduce power consumption. The TV will automatically adjust the brightness and TV panel setting according to your selection.
- Select **Off** for optimal picture quality with as brighter screen. This may increase power consumption.

---

6.6

## Advanced Options

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## Audio

Set audio preference language

Quick settings > TV options > Advanced Options > Audio Language/Primary Audio/Secondary Audio or Audio Channel.

The TV channels can broadcast audio with several spoken languages for a programme. You can set a preferred primary and secondary audio language. If audio in one of these languages is available, the TV will switch to this audio.

---

## Blue Mute

Quick settings > TV options > Advanced Options > Blue Mute.

Switch the blue mute on or off.

---

## Interaction Channel

Quick settings > TV options > Advanced Options > Interaction Channel.

Switch the interaction channel on or off.

---

## MHEG PIN Protection

Quick settings > TV options > Advanced Options > MHEG PIN Protection.

Set to turn on or off the Pin protection of MHEG feature.

---

## HBBTV Settings

Quick settings > TV options > Advanced Options > HBBTV settings.

Switch on HbbTV

HBBTV settings > On.

Set the HbbTV History Tracking

HBBTV settings > Do Not Track.

Set the options according to your preference.

Set the HbbTV Cookies

HBBTV settings > Cookie Settings.

Set the options according to your preference.

## Set other options

HBBTV settings > Persistent Storage, Block Tracking Sites, or Device ID.

Select one of the options and switch it to on or off.

## Reset HbbTV Device ID

HBBTV settings > Reset Device ID.

You can reset your TV unique device identifier. A new identifier will be created. This will replace your Device ID with a new identifier.

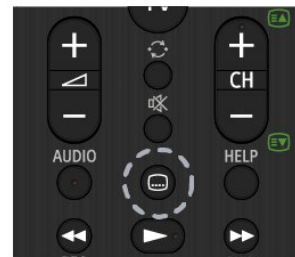
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## Subtitle

Quick settings > TV options > Advanced Options > Subtitle.

Digital channels can offer several subtitle languages for a programme. You can set a preferred primary and secondary subtitle language. If subtitles in one of these languages are available, the TV will show the subtitles you selected.

Press **Subtitle** key on the remote control to display the subtitle page.



---

## Teletext

Quick settings > TV options > Advanced Options > Teletext.

Some digital TV broadcasters have several Text languages available.

Alternatively, press **Teletext** key on the remote control to display the text page.



---

## BISS Key

Quick settings > TV options > Advanced Options > BISS Key.

Set to add BISS Key.

---

## System information

Quick settings > TV options > Advanced Options > System information.

To check the system information, including Signal level, Frequency, Service ID, and etc.

---

6.7

## Other settings

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### Device Preferences

Quick settings > TV options > Settings > Device Preferences.

#### About

To show the information about this TV or perform Factory reset operation for the TV.

#### Date & time

Adjust the date and time settings.

#### Timer

Set TV switch on or off timer.

#### Language

Set or change the menu language.

#### Keyboard

Set the on-screen keyboard type.

#### Inputs

Rename the Inputs name and adjust the settings for Consumer Electronic Control (CEC).

#### Power

Set the timers for saving energy.

#### Picture

Adjust the picture settings.

#### Sound

Adjust the sound settings.

#### Storage

Check the device storage.

#### Home screen

Customize the home screen. You can enable or disable the video and audio previews. Reorder the apps and games. Read the Open-source licenses.

#### Retail mode

Switch On or Off the retail mode. If you set the retail mode to on. You can set the retail message type and demo.

#### Google Assistant

Adjust the settings for Google Assistant. You can also view the Open-source licenses.

#### Chromecast built-in

Adjust the settings for Chromecast built-in. You can view the Open-source licenses and the version number.

#### Screen saver

Adjust the screen saver setting for your preference.

#### Location

Set the location status.

#### Usage & Diagnostics

Set to on for automatically send diagnostic information to Google, such as crash reports and usage data from your device, apps and Chromecast built in.

#### Accessibility

Activate special functions for hearing and visually impaired people.

## Reboot

Reboot your TV for better performance when needed.

---

## Remote and Accessories

Quick settings > TV options > Settings > Remote and Accessories.

You can select the stored bluetooth connection from the list.

If you cannot find your accessory, select **Add accessory** to search for bluetooth connections.

---

6.8

## Reboot

Quick settings > TV options > Settings > Device Preferences > Reboot.

### Note:

- Disconnect the external USB hard disc before rebooting.
- Wait for few seconds, the TV restart automatically.

This will remove unnecessary data and information in the memory.

If your TV runs low performance when using Apps, such as the video and audio are not synchronised or the App is running slow, reboot your TV for better performance.

---

6.9

## Factory Reset

Reset all settings value to original TV settings

Quick settings > TV options > Settings > Device Preferences > About > Factory reset.

This will erase all data from your device's internal storage, including: your Google account, system app data, download apps, and settings. All settings will be reset and installed channels will be erased.

---

6.10

## Clock and Language Settings

---

## Menu language

Change the language of the TV menu

Quick settings > TV options > Settings > Device Preferences > Language.

---

## Audio Language

Set audio preference language

Quick settings > TV options > Advanced Options > Audio Language/Primary Audio/Secondary Audio or Audio Channel.

The TV channels can broadcast audio with several spoken languages for a programme. You can set a preferred primary and secondary audio language. If audio in one of these languages is available, the TV will switch to this audio.

---

## Clock

Quick settings > TV options > Settings > Device Preferences > Date & time.

Correct clock automatically

Automatic date & time > Use network-provided time.

- The standard setting for the TV clock is automatic. The time information comes from the broadcasted UTC - Coordinated Universal Time information.

Correct clock manually

Automatic date & time > Off.

Select **Set date** and **Set time** to adjust the value.

### Note:

- If none of the automatic settings display the time correctly, you can set the time manually.
- If you schedule recordings from the TV Guide, we recommend not to change the time and date manually.

Set time zone or set a time offset for your region

Date & time > Set time zone.

Select the time zone of your preference.

Set display time format

Date & time > Use 24-hour format.

Set to the 24-hour format as your preference.

---

## Timer

Set TV switch on or off timer

Quick settings > TV options > Settings > Device Preferences > Timer.

Set Power On Timer or Power Off Timer to Off, On or Once.

# Help and Support

## Troubleshooting

### Switch On and Remote Control

#### The TV does not switch on

- Disconnect the power cable from the power outlet. Wait for one minute then reconnect it.
- Make sure that the power cable is securely connected.

#### Creaking sound at startup or switch off

When you are switching the TV on, off or to standby, you hear a creaking sound from the TV chassis. The creaking sound is due to the normal expansion and contraction of the TV as it cools and warms up. This does not affect performance.

#### TV does not respond to the remote control

The TV requires some time to start up. During this time, the TV does not respond to the remote control or TV controls. This is normal behaviour. If the TV continues to be unresponsive to the remote control, you can check if the remote control is working by means of a mobile phone camera. Put the phone in camera mode and point the remote control to the camera lens. If you press any key on the remote control and you notice the infra red LED flicker through the camera, the remote control is working. The TV needs to be checked. If you do not notice the flickering, the remote control might be broken or its batteries are low. This method of checking the remote control is not possible with remote controls which are wirelessly paired with the TV.

#### The TV goes back to standby after showing the Sony startup screen

When the TV is in standby, a Sony startup screen is displayed, then the TV returns to standby mode. This is normal behaviour. When the TV is disconnected and reconnected to the power supply, the startup screen is displayed at the next startup. To switch on the TV from standby, press power key on the remote control or on the TV.

#### The standby light keeps on blinking

Disconnect the power cable from the power outlet. Wait 5 minutes before you reconnect the power cable. For troubleshooting information, you can also refer to "Frequently Asked Questions" in our support site below.

<http://www.sony.net/androidtv-faq/>

## Channels

### No digital channels found during the installation

See the technical specifications to make sure that your TV supports DVB-T or DVB-C in your country. Make sure that all cables are properly connected and that the correct network is selected.

### Previously installed channels are not in the channel list

Make sure that the correct channel list is selected.

## Picture

### No picture / distorted picture

- Make sure that the antenna is properly connected to the TV.
- Make sure that the correct device is selected as the display source.
- Make sure that the external device or source is properly connected.

### Sound but no picture

- Change to other video sources and then change back to current source, then do picture style restore in Picture settings or do Factory reset in General settings option.

### Poor antenna reception

- Make sure that the antenna is properly connected to the TV.
- Loud speakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
- If reception on only one channel is poor, fine-tune this channel with Manual Installation.

### Poor picture from a device

- Make sure that the device is connected properly. Make sure the device's output video setting is the highest possible resolution if applicable.
- Restore picture style or change to other picture styles.

### Picture settings change after a while

Make sure that **Retail mode** is set to **Off**. You can change and save settings in this mode.

### A commercial banner appears

Make sure that **Retail mode** is set to **Off**. Press **Quick settings > TV options > Settings > Device Preferences > Retail mode** and press **OK**

### Picture does not fit the screen

- Change to a different picture format.
- Change **Display mode** to **Automatic**.

### Picture position is incorrect

- Picture signals from some devices may not fit the screen correctly. Check the signal output of the connected device.

- Change **Display mode** to **Automatic**.

#### **Computer picture is not stable**

- Make sure that your PC uses the supported resolution and refresh rate.
- Make sure HDMI video source is not supported HDR content.

---

## **Sound**

### **No sound or poor sound quality**

If no audio signal is detected, the TV automatically switches the audio output off — this does not indicate malfunction.

- Make sure that the sound settings are correctly set.
- Make sure that all cables are properly connected.
- Make sure that the volume is not muted or set to zero.
- Make sure that the TV audio output is connected to the audio input on the Home Theatre System. Sound should be heard from the HTS speakers.
- Some devices may require you to manually enable HDMI audio output. If HDMI audio is already enabled, but you still do not hear audio, try changing the digital audio format of the device to PCM (Pulse Code Modulation). Refer to the documentation accompanying your device for instructions.

---

## **HDMI and USB**

### **HDMI**

- Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from an HDMI device.
- If the TV does not recognise the HDMI device and no picture is displayed, switch the source from one device to another and back again.
- If the picture and sound of a device connected to HDMI is distorted, connect the device to another HDMI port on TV and power reboot your source device.
- If there are intermittent sound disruptions, make sure that output settings from the HDMI device are correct.
- If you use an HDMI-to-DVI adapter or HDMI-to-DVI cable, make sure that an additional audio cable is connected to AUDIO IN (mini-jack only), if available.

### **HDMI EasyLink does not work**

- Make sure that your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

### **No volume icon shown**

- When an HDMI-CEC audio device is connected and

you use the TV Remote Control to adjust the volume level from the device, this behaviour is normal.

### **Photos, videos and music from a USB device do not show**

- Make sure that the USB storage device is set to Mass Storage Class compliant, as described in the storage device's documentation.
- Make sure that the USB storage device is compatible with the TV.
- Make sure that the audio and picture file formats are supported by the TV.

### **Choppy playback of USB files**

- The transfer performance of the USB storage device may limit the data transfer rate to the TV which causes poor playback.

---

## **Network**

### **Wi-Fi network not found or distorted**

- Microwave ovens, DECT phones or other Wi-Fi 802.11b/g/n devices in your proximity might disturb the wireless network.
- Make sure that the firewalls in your network allow access to the TV's wireless connection.
- If the wireless network does not work properly in your home, try the wired network installation.

### **Internet does not work**

- If the connection to the router is OK, check the router connection to the Internet.
- Your router (broadband router) may be incorrectly setup to connect to your Internet service provider (such as an incorrect PPPoE setting). To setup your router correctly, refer to the router's instruction manual or website, or consult the router's manufacturer. If you are uncertain about the setup information of your provider (such as your account name and password), consult your provider.
- The TV may also be unable to connect to the Internet if the time on your TV is incorrect. Please check the time settings.

### **The PC and Internet connection are slow**

- Look in your wireless router's user manual for information on indoor range, transfer rate and other factors of signal quality.
- Use a high-speed (broadband) Internet connection for your router.

### **DHCP**

- If the connection fails, you can check the DHCP (Dynamic Host Configuration Protocol) setting of the router. DHCP should be switched on.

---

## Bluetooth

### Unable to pair

- Make sure the device is in pairing mode. Read the user manual of the device.
- Keep the wireless speaker as close to the TV as possible.
- Trying to pair several devices with the TV at the same time, may not work.

### Bluetooth lost connection

- Always position the wireless speaker within a range of 5 meters from the TV.

### Bluetooth Audio and Video synchronisation

- Before you purchase a wireless Bluetooth speaker, inform yourself about its quality of Audio to Video synchronisation, commonly called 'lip sync'. Not all Bluetooth devices perform correctly. Ask your dealer for advice.

---

## Wrong Menu Language

### Change the language back to your language

- 1 - Press **HOME** to go to Home screen.
- 2 - Press **Quick settings**.
- 3 - Press **Navigation key - down** for 4 times and press **OK**.
- 4 - Press **Navigation key - down** for 3 times and press **OK**.
- 5 - Select your language and press **OK**.
- 6 - Press **EXIT** to close the menu.

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7.2

## Support Site

For the latest information and Online Help Guide, please visit the **Sony support** website:

<https://www.sony.eu/support>

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7.3

## Terms of Use

### Pixel characteristics

This TV product has a high number of colour pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

### Europe – EU Declaration of Conformity / UK Declaration of Conformity

This device complies with the essential requirements of the Radio Equipment Directive (2014/53/EU) or

Radio Equipment Regulations 2017 (for UK). The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the Radio Equipment Directive.

This device also complies with the Erp Directive (2009/125/EC) and Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019 (for UK), and the RoHS directive (2011/65/EU) and Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (for UK).

If you want to get a copy of original DoC of this TV, please visit the following website  
<https://www.sony.eu/support>

### Radiation Exposure Statement:


This equipment complies with CE radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & body.

The frequency, mode and the maximum transmitted power in EU are listed below:

- 2400-2483.5MHz: < 20 dBm (EIRP)
- 5150-5250MHz: < 23 dBm (EIRP)
- 5250-5350MHz: < 23 dBm (EIRP)
- 5470-5725MHz: < 30 dBm (EIRP)
- 5725-5875MHz: < 13.98 dBm (EIRP)

The device is restricted to indoor use only when operating in the 5150 to 5350MHz frequency range.

									
AT	AL	BA	BE	BG	CH	CY	CZ	DE	
DK	EE	ES	FI	FR	UK	UK(NI)	EL		
HR	HU	IE	IS	IT	LI	LT	LU	LV	
MD	ME	MK	MT	NL	NO	PL	PT	RO	
RS	SE	SI	SK	TR					

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7.4

## Copyrights

### HDMI

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.





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## Dolby Audio

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## HEVC

Covered by one or more claims of the HEVC patents listed at [patentlist.accessadvance.com](http://patentlist.accessadvance.com).



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## Wi-Fi Alliance

The Wi-Fi CERTIFIED® Logo is a registered trademark of Wi-Fi Alliance®.



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## Kensington

(If applicable)

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## Other Trademarks

All other registered and unregistered trademarks are the property of their respective owners.

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7.5

## Disclaimer

Disclaimer regarding services and/or software offered by third parties

Services and/or software offered by third parties may be changed, suspended, or terminated without prior notice. Sony does not bear any responsibility in these sorts of situations.

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