# SAMSUNG

# E-MANUAL

Thank you for purchasing this Samsung product. To receive more complete service, please register your product at

www.samsung.com

Model \_\_\_\_\_Serial No.\_\_\_\_\_

To directly go to the page that provides instructions on how to use the manual for visually impaired users, select the Menu Learning Screen link below. "Menu Learning Screen" Link

### **Contents**

### **Quick Guides**

Connecting the Samsung Smart Remote to the TV

Using Smart Hub

Using the Ambient Mode

- 10 Screen states related to Ambient Mode
- 11 Changing the content and settings for Ambient Mode

Using the Shortcuts

- 14 Adding channels
- 14 Moving channels
- 14 Removing a channels

Using Voice Interaction

- 15 Running Voice Interaction
- 16 Learning about Voice Command Guide
- 17 Read Before Using Voice Interaction

Updating the TV's Software

- 18 Updating the TV's software to the latest version
- 18 Updating the TV automatically

**Getting Support** 

- 19 Getting support through Remote Management
- 20 Finding the contact information for service
- 20 Requesting service

### Connections

Connection Guide

Connecting an Antenna (Aerial)

Connecting to the Internet

- 23 Connecting to your Internet network
- 25 Checking the Internet connection status
- 25 Resetting Your Network

- 25 Turning on the TV with a Mobile Device
- 25 Connecting an IP control device to the TV
- 25 Setting up an Internet connection over IPv6
- 26 Changing the name of the TV on a network

Troubleshooting Internet Connectivity Issues

26 Troubleshooting Internet connectivity issues

Connecting Video Devices

- 28 Connecting with an HDMI cable
- 29 Connecting with a component cable (Only for models with COMPONENT IN / AV IN)
- 30 Connecting with a composite cable (Only for models with COMPONENT IN / AV IN)

Audio Input and Output Connections

- 31 Connecting with an HDMI (ARC) cable
- 31 Connecting with a digital audio (optical) cable
- 31 Connecting through a wireless network
- 32 Connecting Bluetooth Devices

Connecting a Computer

32 Connecting through the HDMI port — Screen Sharing (HDMI)

Connecting Your Mobile Device

- Connecting to the TV via the SmartThings app
- 34 Bidirectionally mirroring your TV and mobile device using the SmartThings app
- 34 Managing a Mobile Device

Switching between external devices connected to the TV

- 35 Changing the input signal
- 35 Editing the name and icon of an external device
- 36 Using additional functions

**Connection Notes** 

- 37 Connection notes for HDMI
- 38 Connection notes for audio devices
- 39 Connection notes for computers
- 39 Connection notes for mobile devices

### Remote Control and Peripherals

About the Samsung Smart Remote (QLED TV)

About the Samsung Smart Remote (UHD TV)

Connecting the Samsung Smart Remote to the TV

Controlling External Devices with the Samsung Smart Remote - Using the Universal Remote

Using Anynet+ (HDMI-CEC)

48 Connecting an external device through Anynet+ and using their menus

Controlling the TV with a Keyboard or Mouse

- 49 Connecting a USB keyboard or mouse
- 49 Connecting a Bluetooth keyboard or mouse
- 50 Using the keyboard and mouse
- 51 Setting up the input devices

Entering Text using the On-Screen Virtual Keyboard

53 Entering Text using the remote control's microphone and the on-screen Virtual keyboard

### **Smart Features**

#### Smart Hub

- 55 Displaying the Home Screen
- 59 Launching Smart Hub automatically
- 59 Launching the last used app automatically
- 59 Testing Smart Hub connections
- 59 Resetting Smart Hub

Using a Samsung account

- 60 Creating and managing your Samsung account
- 61 Signing in to a Samsung account

Using the Ambient Mode

- 63 Screen states related to Ambient Mode
- Changing the content and settings for Ambient Mode

Using the Apps Service

- 67 Installing and running an app
- 68 Managing purchased or installed apps

Using the Gallery App

Using the Universal Guide App

Using the SmartThings App

Using the e-Manual

- 73 Launching the e-Manual
- 74 Using the buttons in the e-Manual

Using the Internet

Playing pictures/video/music

76 Playing media content

Using Voice Interaction

- 77 Running Voice Interaction
- 78 Learning about Voice Command Guide
- 79 Read Before Using Voice Interaction

### TV Viewing

Viewing Digital Broadcast Information at a Glance

80 Using the guide

**Recording Programmes** 

- 82 Recording programmes
- 83 Managing the schedule recording list
- 84 Viewing recorded programmes
- 84 Setting up a schedule recording start

Setting Up a Schedule Viewing

- 84 Setting up a schedule viewing for a channel
- 85 Editing a schedule viewing

#### Using Timeshift

# Buttons and functions available while recording a programme or Timeshift

#### Using the Channel List

#### Editing channels

- 89 Removing registered channels
- 89 Editing registered channels

#### Creating a Personal Favourites List

- 90 Registering channels as favourites
- 90 Viewing and selecting channels on Favourites lists only

#### Editing a Favourites List

- 91 Adding channels to favourites list
- 91 Removing channels from a favourites list
- 91 Rearranging a favourites list
- 91 Renaming a favourites list

### **TV-Viewing Support Functions**

- 92 Changing the broadcast signal
- 92 Scanning for available channels
- 93 Checking digital channel signal info and strength
- 93 Restricting Viewing to Specific Channels
- 93 Using Mark Adult Channels
- 93 Selecting the broadcasting audio option
- 94 Using Programme Rating Lock
- 94 Configuring advanced broadcasting settings
- 94 Reading digital text
- 95 Selecting the broadcast audio language
- 95 Tuning broadcast signals manually
- 96 Fine-tuning analogue broadcasts
- 96 Transferring channel list
- 96 Enabling/Disabling Edit Channel Numbers
- 96 Deleting CAM operator profile
- 97 Setting satellite system
- 97 Changing teletext language
- 97 Showing TVkey Interface menu
- 98 Showing common interface menu

### Picture and Sound

#### Adjusting the Picture Quality

- 99 Choosing a picture mode
- 100 Configuring advanced picture settings

#### Setting the Viewing Environment for External Devices

- 101 Playing games on an optimised screen
- 102 Configuring game mode details
- 103 Viewing UHD videos
- 103 Using HDMI black level

#### Picture Support Functions

- 104 Viewing a picture-in-picture (PIP)
- 104 Changing the picture size
- 105 Changing the picture size automatically
- 105 Changing the picture size in 4:3 or Screen Fit mode
- 105 Fitting the picture to the screen
- 105 Adjusting the picture size and/or position

#### Configuring a Sound Mode and Expert Settings

- 106 Choosing a sound mode
- 106 Configuring advanced sound settings

#### Using the Sound Support Functions

- 107 Selecting speakers
- 107 Listening to the TV through Bluetooth devices
- 108 Listening to the TV through a Samsung audio device that supports the Wi-Fi function

### System and Support

#### Using the Time Functions and the Timers

- 109 Setting the current time
- 110 Using the timers

#### Using the Auto Protection Time and Energy Saving Functions

- 111 Setting the Auto Protection Time
- 111 Reducing the energy consumption of the TV

#### Updating the TV's Software

- 112 Updating the TV's software to the latest version
- 112 Updating the TV automatically

#### Protecting the TV from Hacking and Malicious Code

113 Scanning the TV and connected storage for malicious code

#### **Using Other Functions**

- 113 Running the accessibility functions
- 113 Running Accessibility Shortcuts
- 114 Enabling voice guides for the visually impaired
- 114 Audio Description
- 115 White text on black background (high contrast)
- 115 Setting the screen to a black and white tone
- 115 Inverting the screen colour
- 115 Enlarging the font (for the visually impaired)
- 116 Learning about the remote control (for the visually impaired)
- 116 Learning about the TV menu
- 116 Watching TV broadcasts with subtitles
- 117 Listening to the TV through Bluetooth devices (for the hearing impaired)
- 117 Configuring advanced system settings
- 118 Restoring the TV to the factory settings

#### HbbTV

#### Using a TV Viewing Card ("CI or CI+ Card")

- 120 Connecting the "CI or CI+ Card" via COMMON INTERFACE slot with the CI CARD Adapter
- 121 Connecting the "CI or CI+ Card" via COMMON INTERFACE slot
- 121 Using the "CI or CI+ Card"

#### Teletext Feature

- 122 On the Samsung Smart Remote
- 124 On the standard remote control
- 125 Typical Teletext page

### Troubleshooting

#### **Getting Support**

- 126 Getting support through Remote Management
- 127 Finding the contact information for service
- 128 Requesting service

#### Diagnosing TV operational issues

#### There Is a Problem with the Picture

129 Testing the picture

I Can't Hear the Sound Clearly

132 Testing the sound

There Is a Problem with the Broadcast

My Computer Won't Connect

The TV Won't Connect to the Internet

The Schedule Recording/Timeshift Function Isn't Working

Anynet+ (HDMI-CEC) Isn't Working

I Have Trouble Launching/Using Apps

My File Won't Play

I Want to Reset the TV

Other Issues

### **Precautions and Notes**

#### Before Using the Recording and Timeshift Functions

- 140 Before using the recording and schedule recording functions
- 142 Before using the timeshift function

Supported broadcasting audio options

Read Before Using Apps

Read Before Using the Internet

145 Read before setting up a wireless Internet connection

#### Read Before Playing Photo, Video, or Music Files

- 146 Limitations on use of photo, video, and music files
- 147 Supported external subtitles
- 147 Supported internal subtitles
- 148 Supported image formats and resolutions
- 148 Supported music formats and codecs
- 149 Video codecs supported by NU7100 model series or higher
- 150 Video codecs supported by NU7090 model series or lower

#### Read After Installing the TV

- 152 Picture sizes and input signals
- 152 Installing an anti-theft lock

#### Supported Resolutions for UHD Input Signals

- 153 If HDMI UHD Color is set to Off
- 153 If HDMI UHD Color is set to On

#### Supported Resolutions for FreeSync

#### Read Before Connecting a Computer (Supported Resolutions)

- 154 IBM
- 154 MAC
- 155 VESA DMT
- 156 VESA CVT
- 156 CTA-861

#### Supported Resolutions for Video Signals

- 157 CTA-861
- 158 VESA CVT

#### Read Before Using Bluetooth Devices

159 Restrictions on using Bluetooth

# Buttons and functions available while playing multimedia content

#### Licence

### **Accessibility Guidance**

#### Menu Learning Screen

#### Using the Remote control

- 164 Orientation of the Samsung Smart Remote
- 164 Description of the Samsung Smart Remote

#### Using the accessibility menu

- 166 Accessibility Shortcuts menu
- 167 Step by Step instructions to run the options
- 169 Setting accessibility settings using Voice Interaction

#### Using the TV with Voice Guide on

170 Watching TV

#### Using the guide

#### Setting Up a Schedule Viewing

175 Cancelling a scheduled viewing

#### Using the Channel List

178 Creating a Personal Favourites List

#### Recording

- 180 Using the instant and schedule recording options from the guide screen:
- 181 Using the Instant and Schedule Recording options from the programme info window
- 181 Changing the recording time
- 182 Viewing recorded programmes
- 182 Deleting a recorded programme

### Using Smart Hub

- 183 Smart Hub
- 184 Using the Home Screen in Smart Hub

#### Launching the e-Manual

#### Using Voice Interaction

188 Running Voice Interaction

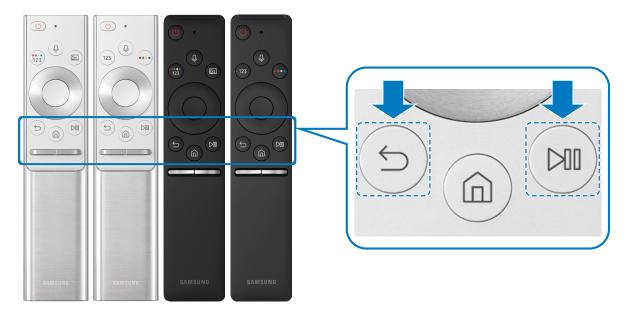
# **Quick Guides**

You can learn quickly how to run and use the frequently used functions, such as Voice Interaction, Ambient Mode, and Smart Hub.

# Connecting the Samsung Smart Remote to the TV

Connect the Samsung Smart Remote to your TV to operate the TV.

When you turn on the TV for the first time, the Samsung Smart Remote pairs to the TV automatically. If the Samsung Smart Remote does not pair to the TV automatically, point it at the remote control sensor of the TV, and then press and hold the and buttons simultaneously for 3 seconds or more.

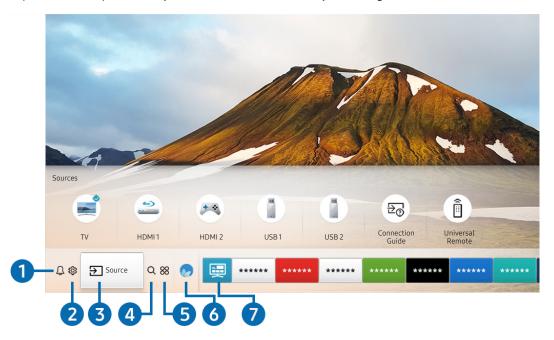


- The images, buttons, and functions of the Samsung Smart Remote may differ by model.
- For more information about the Samsung Smart Remote that comes with the QLED TV, refer to "About the Samsung Smart Remote (QLED TV)".
- For more information about the Samsung Smart Remote that comes with the UHD TV, refer to "About the Samsung Smart Remote (UHD TV)".
- The Samsung Smart Remote may not be supported depending on the model or geographical area.

# **Using Smart Hub**

Connect to Smart Hub for apps, games, movies, and more.

Enjoy the multiple functions provided by Smart Hub simultaneously on a single screen.



The image on your TV may differ from the image above depending on the model and geographical area.

When you press the fine button on your remote control, you can use the following functions and features.

### 

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when it is time to broadcast a scheduled programme or when an event occurs on a registered device.

For more information, refer to "Displaying the Home Screen".

### 2 Settings

When the focus is moved to the 🐯 icon, a list of quick settings icons appears above the top of the menu. You can quickly set frequently used functions by clicking the icons.

### 3 Source

You can select an external device connected to the TV.

For more information, refer to "Switching between external devices connected to the TV".

### 4 Q Search

You can search data for channels, programmes, movie titles, and apps from Smart Hub.

To use this feature, the TV must be connected to the Internet.

### 6 % APPS

You can enjoy a wide range of content including news, sports, weather, and games by installing the corresponding apps on your TV.

- To use this feature, the TV must be connected to the Internet.
- For more information, refer to "Using the Apps Service".

### 6 Ambient Mode

In Ambient Mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient Mode, press the button. To return to the TV mode, press the button. To shut off the TV, press the button.

If you press the button when the TV is turned off, the TV turns on in Ambient Mode.

- If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering Ambient Mode.
- Because this function is a QLED TV-specific function, it may not be supported depending on the model.
- For more information about the **Ambient Mode**, refer to "Using the Ambient Mode".

### Universal Guide

**Universal Guide** is an app that allows you to search for and enjoy various content such as TV shows, dramas, movies, and music in one place. **Universal Guide** can recommend content tailored to your preferences and notify you of new drama series.

- For more information about the **Universal Guide**, refer to "<u>Using the Universal Guide App</u>".
- Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.

# Using the Ambient Mode

Learn about the functions available in Ambient Mode, which is a QLED TV-specific function.



In Ambient Mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient Mode, press the button. To return to the TV mode, press the button. To shut off the TV, press the button.

If you press the button when the TV is turned off, the TV turns on in Ambient Mode.

- If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering **Ambient Mode**.
- Because this function is a QLED TV-specific function, it may not be supported depending on the model.

### Screen states related to Ambient Mode

Ambient Mode

In Ambient Mode, you can set up and enjoy visual information and design. In this state, less power is consumed and brightness is automatically adjusted by the illuminance sensor.

Getting dark state

In Ambient Mode, the TV screen changes automatically according to the surroundings. When the surroundings get dark, the TV screen becomes darker. When the surroundings get bright before the TV screen turns completely black or when the remote control or the Voice Interaction function is operated, the TV screen returns to Ambient Mode.

- You can change the auto brightness setting for **Ambient Mode**. For more information, refer to "Setting up the Ambient Mode details".
- In this state, the TV is ready to process voice guides and voice commands.
- Black screen state

In Ambient Mode, if the surroundings get to a specific level of darkness, the TV turns soft-off. To turn the screen back on in Ambient Mode, press the button on the remote control.

- You can change the auto brightness setting for **Ambient Mode**. For more information, refer to "Setting up the Ambient Mode details".
- In this state, the TV cannot process voice guides and voice commands.

#### TV off state

To enter **Ambient Mode** when the TV is turned off, press the button on the remote control. To enter TV mode when the TV is turned off, press the button. In TV mode, you can watch broadcasts or enjoy the content on the external devices connected.

### Changing the content and settings for Ambient Mode



The image on your TV may differ from the image above depending on the model and geographical area.

When you press the or button in Ambient Mode, the Ambient Mode browser screen appears. In the Ambient Mode browser screen, you can select content and change the Ambient Mode settings.

### Setting up the content for Ambient Mode

The Ambient Mode browser screen displays content at the top and categories at the bottom. Use the left or right directional buttons in the content list at the top to move the focus to content you want, and then press the Select button. The selected content is played in Ambient Mode.

In the future, more content that you can set up in the Ambient Mode browser will be provided.

You can select the following categories and content:

- Décor: Provides beautiful screens.
- Info: Provides information such as weather, news headlines, and more.
  - This function may not be supported depending on the geographical area.
- Photo: Allows you to set a picture stored in your mobile device as the wallpaper of the Ambient Mode screen. You can configure special layouts with your photos.
  - To save photos from your mobile device to the TV and import them in **Ambient Mode**, use the SmartThings app on your mobile device.

### Setting up the Ambient Mode details

In the **Ambient Mode** browser screen, move the focus to **3**, and then press the Select button. You can change the following settings:

- Brightness: Adjust the screen brightness for Ambient Mode.
- Colour Tone: Adjust the colours of the screen for Ambient Mode.
- Auto Brightness: Change the auto brightness setting for Ambient Mode.
  - When this function is set to **Off**, the brightness level of the TV screen is not automatically adjusted according to the ambient light level.
- Ambient Off Timer: Set the time that the Ambient Mode screen turns off automatically.
  - If there is no remote control input for the set time, the screen goes off. To turn the screen back on in **Ambient Mode**, press the button on the remote control.

### Changing the background colour of Ambient Mode

To change the background colour of **Ambient Mode**, move the focus to  $\[ \]$  in the **Ambient Mode** browser screen, and then press the Select button. You can change the background colour or pattern. Move the focus to a colour or pattern you want, and then press the Select button.

Take a picture of a wall using the SmartThings app on your mobile device to set it as the background of **Ambient Mode**.

This function may have a delay in image transmission and optimisation depending on the network conditions.

# Using the Shortcuts

You can easily use the contents of Sources without running a series of commands.

To display the Shortcuts menu screen, press and hold the button for 1 second or more.

To return to the TV mode, press the 5 button.

Because this function is a QLED TV-specific function, it may not be supported depending on the model.



The image on your TV may differ from the image above depending on the model and geographical area.

### Sources

You can select an external device connected to the TV.

### 2 Channels

Press the (+) button to add a broadcast channel. You can move or remove added broadcast channels.

### 3 ☐ e-Manual

Displays the e-Manual guide.

### 4 Settings

Displays the main on-screen menu.

### 5 Terrestrial, Cable, Satellite, or Service Provider

Choose the broadcast type of the content: Terrestrial, Cable, Satellite, or Service Provider.

This function may not be supported depending on the incoming broadcast signal.

### Adding channels

- 1. Press +.
- 2. Move to the desired location.
- 3. Press the Select button.

The target channel is added in the bookmark area.

### Moving channels

- 1. Move the focus to the channels to move.
- 2. Press the down directional button.
- 3. Select Move.
- 4. Move the selected channels to the desired location.
- 5. Press the Select button.

The selected channels is moved.

### Removing a channels

- 1. Move the focus to the channels to remove.
- 2. Press the down directional button.
- 3. Select Remove.

The selected channels is removed.

# **Using Voice Interaction**

#### Speak into the microphone on your Samsung Smart Remote to control your TV.

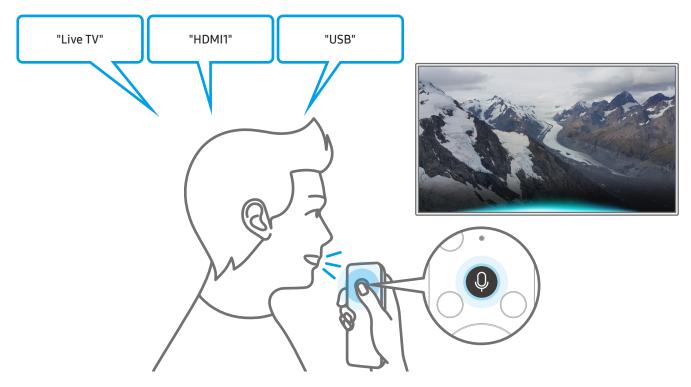
- This function may not be supported depending on the model or geographical area.
- The supported language may differ depending on the geographical area.

### **Running Voice Interaction**

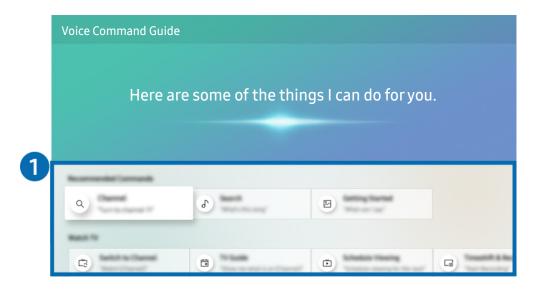
Press and hold the button on your Samsung Smart Remote, say a command, and then release the button. The TV recognises the voice command.

To view the **Voice Interaction** guide, press the **U** button once:

- When you press the button for the first time, the Using Voice Interaction button appears at the bottom of the screen. Press the Select button. The Using Voice Interaction popup window appears and a tutorial on using Voice Interaction is shown.
- When you press the button, the Enter Voice Command Guide button appears at the bottom of the screen. Press the Select button to go to the Voice Command Guide screen.



# Learning about Voice Command Guide



The image on your TV may differ from the image above depending on the model and geographical area.

### 1 Voice Command Guide

You can learn the voice commands to use the **Voice Interaction** in various situations. Use the directional buttons to move to the desired command, and then press the Select button. You can operate the TV with various voice commands.

To view a tutorial on **Voice Interaction**, use the directional buttons to move to the bottom, and then select the **View Tutorial** item.

### Read Before Using Voice Interaction

#### Precautions for Voice Interaction

- The supported voice interaction languages and features may differ depending on the geographical area.
- If the language set differs from the language of your country, some features are not available.
- Voice Interaction is available only when the TV is connected to the Internet.
- Even if the TV is connected to the Internet, there may be no response due to a Voice Interaction server error.
- The existing functional specifications may be changed if Voice Interaction is updated.
- **Voice Interaction** is available only on TVs that support it and come with remote controls that have a microphone.
- Symbols including "-" and special characters are not supported. Consequently, if a word or sentence contains numeric values or symbols, the function may not operate properly.
- Searched results may not provide complete results.
- You may be required to pay for some apps. Consequently, you may encounter a service application or contract.
- To change the current channel by saying channel names as voice commands, you must finish Set Up Your Service Provider. If Set Up Your Service Provider is not completed, you can complete it using the following menu.
  - ♠ > ♦ Settings > General > Start Setup (ry Now)
- To use the voice text input function and Smart search function, you must consent to provisions allowing third parties to collect and use your voice data.
- To use the Voice Interaction function, you must:
  - Agree to Smart Hub's Terms of Use
  - Agree to a guidance regarding the collection and use of personal information for the Smart Hub service.
  - Consent to the collection and use of personal information for the voice interaction-based service.

### Requirements for using Voice Interaction

- The voice interaction rate differs with the volume/tone, pronunciation, and ambient sound environment (TV sound and ambient noise).
- The optimal volume for voice commands is between 75 dB and 80 dB.

# Updating the TV's Software

View your TV's software version and update it if necessary.



### Updating the TV's software to the latest version

DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. Video and audio settings will be reset to their defaults after a software update.

### Updating through the Internet





Updating from the Internet requires an active Internet connection.

### Updating through a USB device



After downloading the update file from the Samsung website and storing it on a USB device, connect the USB device to the TV to update.



To update using a USB flash drive, download the update package from Samsung.com to your computer. Then, save the update package in the USB device's top-level folder. Otherwise, the TV will not be able to locate the update package.

### Updating the TV automatically



If the TV is connected to the Internet, you can have the TV update its software automatically while you are watching the TV. When the background update is completed, it is applied the next time the TV is turned on.

If you agree to the Smart Hub terms and conditions, Auto update is set to On automatically. If you want this function disabled, use the Select button to turn it off.

This function may take a longer time if another network function is running concurrently.

This function requires an Internet connection.

# **Getting Support**

Get help directly from Samsung if you have a problem with your TV.

### Getting support through Remote Management

> Settings > Support > Remote Management (ry Now)

After consenting to our service agreement, you can use **Remote Management** to access Remote Support and have a Samsung service technician diagnose your TV, correct problems, and update your TV's software remotely via the web. You can also turn **Remote Management** on and off.

- This function requires an Internet connection.
- You can also start this function by pressing and holding the button for 5 or more seconds.

### What is Remote Support?

Samsung Remote Support service offers you one-on-one support with a Samsung Technician who can remotely:

- Diagnose your TV
- Adjust the TV settings for you
- Perform a factory reset on your TV
- Install recommended firmware updates

### How does Remote Support Work?

You can easily get Samsung Remote Support service for your TV:

- 1. Call the Samsung Contact Centre and ask for remote support.
- 2. Open the menu on your TV and go to the Support section. ( > Settings > Support)
- 3. Select Remote Management, then read and agree to the service agreements. When the PIN screen appears, provide the PIN number to the technician.
- 4. The technician will then access your TV.

### Finding the contact information for service



You can view the address of the Samsung website, the call centre phone number, your TV's model number, your TV's software version, Open Source Licence and other information you may need to get service support from a Samsung call agent or the Samsung website.

- You can also view information by scanning the QR code of your TV.
- You can also start this function by pressing and holding the button for 5 or more seconds. For standard remote control, press and hold the (Play) button for 5 or more seconds. Continue holding the button until the customer information pop-up window appears.

### Requesting service

> Settings > Support > Request Support (ry Now)

You can request service when you encounter a problem with the TV. Select the item matching the problem that you encountered, and then select **Request Now** or **Schedule Appointment** > **Send**. Your service request will be registered. The Samsung Contact Centre will contact you to set up or confirm your service appointment.

- This function may not be supported depending on the geographical area.
- ✓ You must agree to the terms and conditions for the service request.
- This function requires an Internet connection.

# Connections

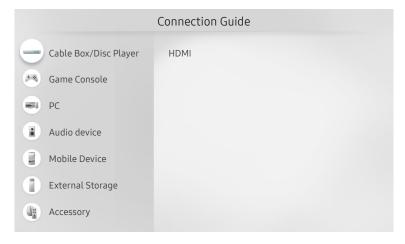
You can watch live broadcasts by connecting an antenna and antenna cable to your TV and can get access to the Internet by using a LAN cable or wireless router. Using various connectors, you can also connect external devices.

# **Connection Guide**

You can view detailed information about external devices that can be connected to the TV.



It guides you the way to connect various external devices such as the cable box, game console, and PC through pictures. If you select the connection method to an external device, the information details appear.

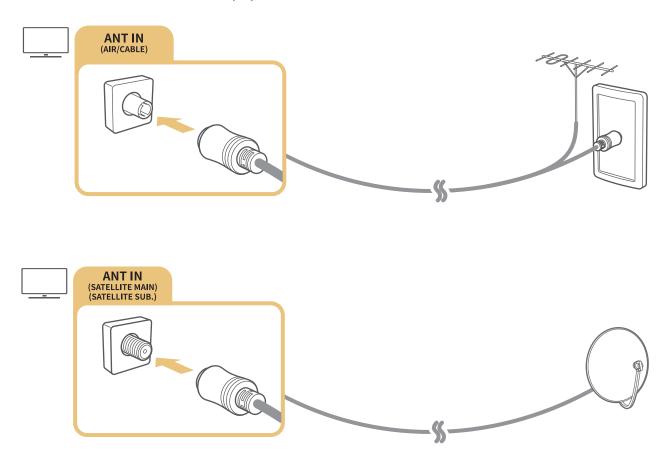


The image on your TV may differ from the image above depending on the model and geographical area.

# Connecting an Antenna (Aerial)

### You can connect an antenna cable to your TV.

An antenna connection is not necessary if you connect a cable box or satellite box.



It is best to connect the both connectors using a Multi-Switch or DiSEqC. Switch, etc and to set Aerial Connection Type to Dual Oscillator.

- A connection method may differ with the models.
- The DVB-T2 system may not be supported depending on the geographical area.
- Depending on the model or geographical area.

# Connecting to the Internet

You can get access to the Internet through your TV.

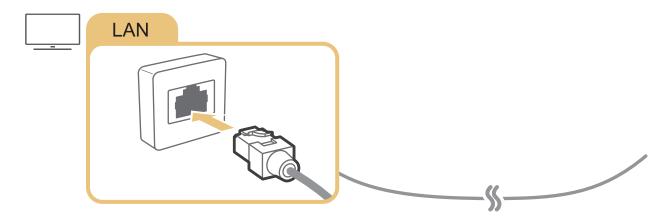
# Connecting to your Internet network

> Settings > General > Network > Open Network Settings (ry Now)

Connect to an available network.

### Establishing a wired Internet connection

If you connect a LAN cable, the TV automatically accesses the Internet.



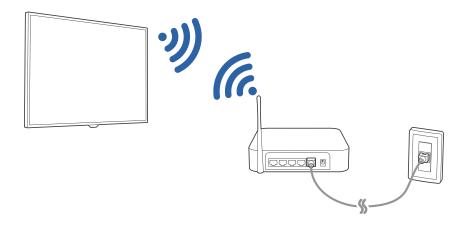
- - \* Shielded Twist Pair
- The TV will not be able to connect to the Internet if your network speed is below 10 Mbps.

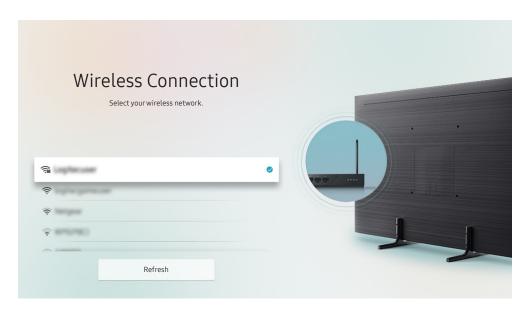
### Establishing a wireless Internet connection



### 

Make sure that you have the wireless router's SSID (name) and password settings before attempting to connect, and then follow the directions on the screen.





- The image on your TV may differ from the image above depending on the model and geographical area.
- If no wireless router is found, select Add Network at the bottom of the list and enter the network name (SSID).
- If your wireless router has a WPS or PBC button, select **Use WPS** at the bottom of the list, and then push the WPS or PBC button on your router within 2 minutes. The TV will connect automatically.

### Checking the Internet connection status



⋒ > 🕸 Settings > General > Network > Network Status (ry Now)

View the current network and Internet status.

### Resetting Your Network



Restore the network settings to the factory defaults.

### Turning on the TV with a Mobile Device



You can turn on the TV with your mobile device when both of them are connected to the same network.

### Connecting an IP control device to the TV



You can connect an IP control device to the TV remotely to manage your IP device.

- To use this function. **Power On with Mobile** must be turned on.
- Turning this feature on may allow other IP control devices to control your TV. We recommend turning this feature on only if an authorised third-party custom controller is installed and configured specifically for a Samsung TV and if your Wi-Fi network is password protected.
- This function may not be supported depending on the model or geographical area.

### Setting up an Internet connection over IPv6

### Configuring the IPv6 connection settings





This function may not be supported depending on the model or geographical area.

### Checking an Internet connection set up over IPv6





This function may not be supported depending on the model or geographical area.

### Changing the name of the TV on a network



⋒ > 🕸 Settings > General > System Manager > Device Name (ry Now)

You can change the name of the TV on the network. Select **User Input** at the bottom of the list and change the name.

# **Troubleshooting Internet Connectivity Issues**

If your TV won't connect to the Internet, try the solutions below.

### Troubleshooting Internet connectivity issues (Ty Now)



After reading the following content, troubleshoot the Internet connection issue. If the problem persists, contact your Internet Service Provider.

#### No network cable found

Make sure that the LAN cable is plugged in on both ends. If it is plugged in, make sure that the router is turned on. If the router is on, try turning it off and then on.

### Wireless network connection failed

If a selected wireless router is not found, go to Open Network Settings, and then select the correct router.



#### Unable to connect to a wireless router

- 1. Check if the router is turned on. If it is, turn it off and then on.
- 2. Enter the correct password if required.

### IP auto setting failed

- 1. Configure the settings in IP Settings.
  - (n) > (2) Settings > General > Network > Network Status > IP Settings
- 2. Make sure that the DHCP server is enabled on the router, and then unplug the router and plug it back in.
- 3. Reset the router if required.
  - For wireless connection, enter the correct password if required.

#### Unable to connect to the network

- 1. Check all IP Settings.
- 2. After checking the DHCP server status (must be active) on the router, remove the LAN cable, and then connect it again.
  - For wireless connection, enter the correct password if required.

### Connected to a local network, but not to the Internet

- 1. Make sure that the Internet LAN cable is connected to the router's external LAN port.
- 2. Check the DNS values in IP Settings.

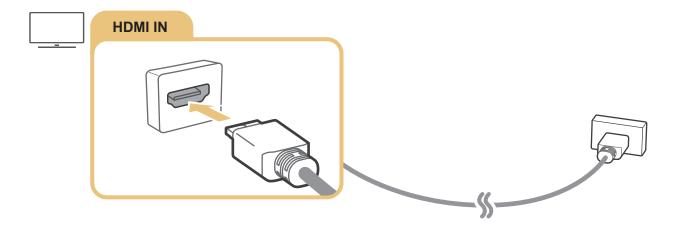
### Network setup is complete, but unable to connect to the Internet

If the problem persists, contact your Internet Service Provider.

# **Connecting Video Devices**

Make the correct video connections between your TV and your external devices.

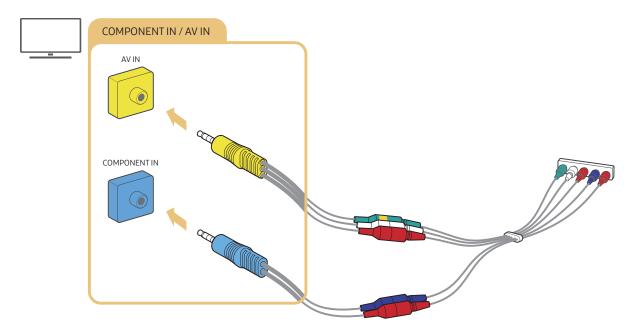
# Connecting with an HDMI cable



# Connecting with a component cable (Only for models with COMPONENT IN / AV IN)

A Component connection lets you enjoy video resolutions up to 1080p. To watch video from most DVD and Blu-ray players, use the Component connection.

Review the illustration below, and then connect Component IN and AV IN on the TV to Component OUT on the external device by using the provided component and AV adaptors. Make sure to connect the same colour connectors together. (blue to blue, yellow to yellow, etc.)

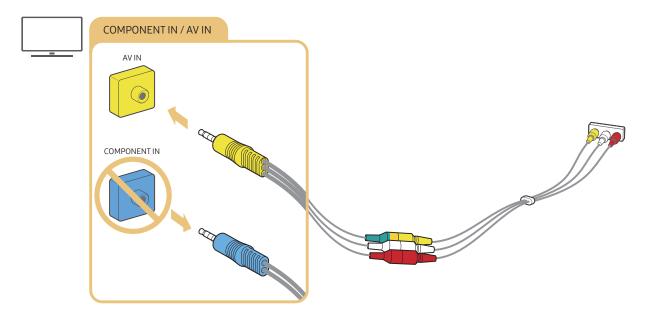


To use component equipment, connect both the component adapter (blue) and the AV adapter (yellow).

# Connecting with a composite cable (Only for models with COMPONENT IN / AV IN)

Through the AV connection, you can enjoy the resolution up to 576i.

Review the illustration below, and then connect AV IN on the TV to AV OUT on the external device using the provided AV adapter and composite cable. When connecting the cables, be sure to match the colours of the cables to the colours of the ports.



Connect AV (composite) equipment to AV In only. Do not connect to Component In.

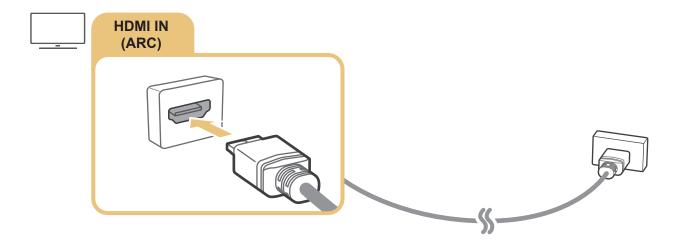
# **Audio Input and Output Connections**

Make the correct audio connections between your TV and your external devices.

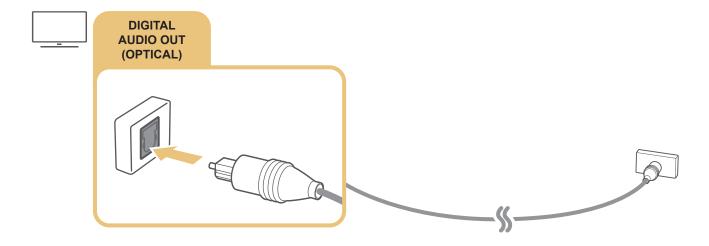


For more information about how to select external speakers, refer to "Selecting speakers".

# Connecting with an HDMI (ARC) cable



# Connecting with a digital audio (optical) cable



### Connecting through a wireless network

You can connect the TV to a Samsung audio device that supports the Wi-Fi function through your wireless network. The two devices must be connected to the same network. For more information about how to connect and use a Samsung audio device that supports the Wi-Fi function, refer to its user manual.

### **Connecting Bluetooth Devices**

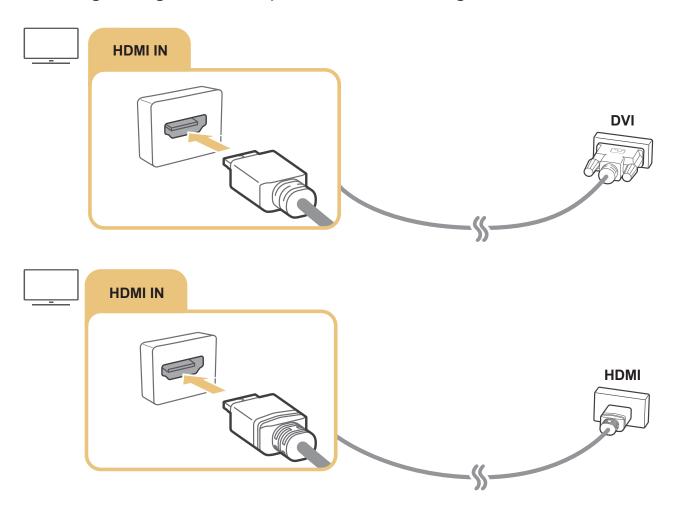
For more information about how to connect and use external speakers, refer to the Connection Guide ( > > Source > Connection Guide > Audio device > Bluetooth) and their user manuals.

This function may not be supported depending on the model or geographical area.

# Connecting a Computer

Use the TV as a computer monitor or connect the TV to a computer via your network and access the computer's content.

### Connecting through the HDMI port — Screen Sharing (HDMI)



When you have connected a PC, go to > Source, and then select the PC icon from the external device icon list. For more information about the port settings, refer to "Editing the name and icon of an external device".

# Connecting Your Mobile Device

Connect your mobile device to the TV on the same network to control the TV with the mobile device or enjoy the content of the mobile device on the TV.

Use the SmartThings app on your mobile device to quickly and easily connect to the TV and control its main settings. In addition, you can remotely check and control the statuses of various devices such as Samsung smart devices, home appliances, and speakers registered to the server.

- Make sure that your TV supports SmartThings. You can check it with the **Supported Device** menu in the SmartThings app.
- To use the SmartThings app, you must be signed in to your Samsung account on the TV.
- This function may not be supported depending on the TV model or mobile device.
- The supported functions may differ depending on the version of the SmartThings app.

You can install the SmartThings app from App Store or Google Play Store.

### Connecting to the TV via the SmartThings app

- 1. Turn on the TV.
- 2. Start the SmartThings app on your mobile device.
- 3. Tap Add Device on the dashboard of the SmartThings app. Connectable TVs are searched for.
- 4. From the search results, select the model of your TV.
- 5. Enter the PIN number displayed on the TV screen.

Once the TV is registered with your Samsung account, you can use the SmartThings app to control the TV.

- If your TV is not found on your mobile device, turn both of them off and on, and then try again.
- If you have more than one TV, you can easily select the TV you want by setting different TV names at > System Manager > Device Name.

# Bidirectionally mirroring your TV and mobile device using the SmartThings app

Bidirectional mirroring refers to either outputting the same screen and sound of a mobile device on a TV or outputting the same screen and sound of a TV on a mobile device. You can use the SmartThings app to enjoy the screen and sound of the TV on your mobile device or to play the screen and sound of your mobile device on the TV.

Start the SmartThings app on your mobile device. Tap your TV from the dashboard or device. You can use the following functions:

- You can enjoy the screen and sound of the mobile device on your TV.
  - After you connect a mobile device that supports screen mirroring to your TV, you can use screen mirroring to enjoy the screen and sound of the mobile device on your TV wirelessly and play the video, audio, or photo files currently playing on the mobile device on your TV.
- You can enjoy TV screen and sound on your mobile device.
- You can only listen to the TV sound on your mobile device.
- You can add a new device through the SmartThings app on your mobile phone. Please refer to the user guide in the SmartThings app for more details.
- This function may not be supported depending on the TV model or mobile device.
- The supported functions may differ depending on the version of the SmartThings app.
- If there is no TV found, try again after turning both off and on.
- If you have multiple TVs, assign a different name to each TV in > Settings > General > System Manager > Device Name to make selection easy.

### Managing a Mobile Device

- - Access Notification
     Set whether to display a notification when a mobile device attempts to connect to the TV.
  - Device List

View, edit, or remove a list of mobile devices registered to the TV.

# Switching between external devices connected to the TV

You can switch between TV programmes and the content of external devices.

### Changing the input signal



When you select a connected external device on the Source screen, the output of the selected device is displayed on the TV's screen.

On the standard remote control, press the **SOURCE** button.

- To control a device (Blu-ray player, game console, etc.) that supports universal remote control with the TV's remote control, connect the device to an HDMI port on the TV, and then turn on the device. Lets you switch to the output of the device automatically or lets you configure universal remote control for the device automatically. To configure the device for universal remote control automatically, point the TV's remote control at the device.
- When a USB device is connected to the USB port, a pop-up message appears that lets you switch easily to the media content listed on the device.
- This function may not be supported depending on the device and geographical area.

### Editing the name and icon of an external device



Source

You can change the port name for a connected external device or add it to Home Screen.



The image on your TV may differ from the image above depending on the model and geographical area.

- 1. Move the focus to a connected external device.
- 2. Press the Up directional button. The following functions become available.
  - Available functions may differ depending on the port type.

### Universal Remote

You can control external devices connected to the TV using the remote control. To control external devices, register them by following the instructions on the screen.

- This function may not be supported depending on the model or geographical area.
- For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".

### 2 Edit

You can rename each port with the name of an input device or the desired name in order to make it easier to change the input mode.

### **3** Information

You can view the detailed information about the external devices connected to the TV.

### 4 Add to Home

You can add the port of an external device to the Home Screen for quick switching.

### Using additional functions

You can use the following features on the **Source** screen.

- Connection Guide: The guide to device connections.
- Universal Remote: The function that lets you register external devices to your Samsung Smart Remote and control them using the standard remote control.
  - This function may not be supported depending on the model or geographical area.
  - For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".

#### **Connection Notes**

#### When connecting an external device, note the following.

- The number of connectors and their names and locations may differ with the model.
- Refer to the external device's operating manual when connecting it to the TV. The number of external device connectors and their names and locations may differ with the manufacturer.

#### Connection notes for HDMI

- The following types of HDMI cables are recommended:
  - High-Speed HDMI Cable
  - High-Speed HDMI Cable with Ethernet
- Use an HDMI cable with a thickness of 0.66 inches (17 mm) or less.
- Using a non-certified HDMI cable may result in a blank screen or a connection error.
- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- This TV does not support HDMI Ethernet Channel. Ethernet is a Local Area Network (LAN) built with coaxial cables standardised by the IEEE.
- Use a cable shorter than 10 feet (3 m) to get the best UHD contents viewing quality.
- Many computer graphics adaptors do not have HDMI ports, but have DVI ports instead. If your PC does not support HDMI video out, connect your PC with an HDMI-DVI cable.
  - For more information, refer to "Connecting a Computer".

- For the One Connect supported models, when the TV is connected to other equipment such as DVD/BD or STB via HDMI, network standby mode will be automatically activated. In this network standby mode, the TV continues to detect and connect HDMI Devices. This function can be deactivated by pressing the following buttons on the remote control.
  - On the Samsung Smart Remote: Select VOL button. > (up directional button) > (left directional button) > (up directional button) > (down directional button) > Select VOL button. > .
  - On the standard remote control: Select ⋈ button. > (up directional button) > (left directional button) > (up directional button) > Select ⋈ button. > Select RETURN button.
  - If the function is deactivated and TV is turn off, the function is automatically activated again when the TV is next switched on.

#### Connection notes for audio devices

- For better audio quality, it is a good idea to use an AV receiver.
- If you connect an external audio device using an optical cable, the **Sound Output** setting is automatically changed to the connected device. However, to make this happen, you must turn on the external audio device before connecting the optical cable. To manually change the **Sound Output** setting, do one of the following:
  - Use the Quick Settings screen to change to the connected device:
     Use the Select button to select Audio Out/Optical on the Sound Output menu. ( > Sound Output).
  - Use the Settings screen to change to the connected device:
     Select Audio Out/Optical on the Sound Output menu. ( > Settings > Sound > Sound Output).
- An unusual noise coming from a connected audio device while you are using it may indicate a problem with the audio device itself. If this occurs, ask for assistance from the audio device's manufacturer.
- Digital audio is only available with 5.1 channel broadcasts.

#### Connection notes for computers

- For the resolutions supported by the TV, refer to "Read Before Connecting a Computer (Supported Resolutions)".
- As long as file sharing is activated, unauthorised access may occur. When you do not need to access data, disable file sharing.
- If you want to connect your PC and TV wirelessly, both of them must be connected to each other on the same network.
- When sharing content with other network-based devices such as those in an IP (Internet Protocol) storage system, sharing may not be supported due to the network's configuration, quality, or functionality, for example, if the network has an NAS (Network-Attached Storage) device.

#### Connection notes for mobile devices

- To use the Smart View function, the mobile device must support a sharing function such as Screen Mirroring
  or Smart View. To check whether your mobile device supports the sharing function, please visit the mobile
  device manufacturer's website.
- To use Wi-Fi Direct, the mobile device must support the Wi-Fi Direct function. Please check if your mobile device supports Wi-Fi Direct.
- The mobile device and your Smart TV must be connected to each other on the same network.
- The video or audio may stop intermittently, depending on network conditions.
- When sharing content with other network-based devices such as those in an IP (Internet Protocol) storage system, sharing may not be supported due to the network's configuration, quality, or functionality, for example, if the network has an NAS (Network-Attached Storage) device.

# Remote Control and Peripherals

You can control TV operations with your Samsung Smart Remote. Pair external devices such as a keyboard for ease of use.

# About the Samsung Smart Remote (QLED TV)

Learn about the buttons on the Samsung Smart Remote that comes with the QLED TV.



Button	Description
(Voice Interaction)	Runs <b>Voice Interaction</b> . Press and hold the button, say a command, and then release the button to run <b>Voice Interaction</b> .
	When you press the button, the Enter Voice Command Guide menu appears at the bottom of the screen.
	The supported languages and features for voice interaction may differ depending on the geographical area.
	Each time you press this button, the coloured buttons window and the virtual numeric pad are displayed alternately.
	<ul> <li>Use these coloured buttons to access additional options that are specific to the feature in use.</li> </ul>
(Colour / Number button)	<ul> <li>Press to bring up the virtual numeric pad on the screen. Use the numeric keypad to enter numeric values. Select numbers and then select <b>Done</b> to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc.</li> </ul>
	TTX menu appears on the TV screen. For more information, refer to " <u>Teletext Feature</u> ".
	and then select a specific colour by using the directional pad (up/down/left/right). Use
	this to access additional options that are specific to the feature in use.
	In TV mode, press the button to enter <b>Ambient Mode</b> .
	If you press the button when the TV is turned off, the TV turns on in Ambient Mode.
(Ambient Mode)	When pressed for 1 second or more, the Shortcuts menu screen appears.
	This function may not be supported depending on the model or geographical area.
1 Directional pad (up/down/left/right)	Moves the focus.
2 Select	Selects or runs a focused item. When pressed while you are watching content, detailed programme information appears.

Button	Description
(Return)	Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a programme, the previous channel appears.
(Smart Hub)	Press to return to the Home Screen.
(Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.
VOL (Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 1 second or more, the Accessibility Shortcuts appears.
CH (Channel)	Move the button up or down to change the channel. To see the <b>Guide</b> screen, press the button. When pressed for 1 second or more, the <b>Channel List</b> screen appears.  Press and hold the button up or down to quickly change the channel.

- Use the Samsung Smart Remote less than 6 m from the TV. The usable distance may vary with the wireless environmental conditions.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model.
- To use the Samsung Smart Remote to control a compatible external device that does not support HDMI-CEC (Anynet+), you must configure universal remote control for the device. For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".
- To use the Samsung Smart Remote to control a compatible external device that does support HDMI-CEC (Anynet+), connect the device to an HDMI port on the TV using an HDMI cable. For more information, refer to "Using Anynet+ (HDMI-CEC)".
- This function may not be supported depending on the model or geographical area.

# About the Samsung Smart Remote (UHD TV)

Learn about the buttons on the Samsung Smart Remote that comes with the UHD TV.



Button	Description
(Voice Interaction)	Runs Voice Interaction. Press and hold the button, say a command, and then release the button to run Voice Interaction.
	When you press the button, the <b>Enter Voice Command Guide</b> menu appears at the bottom of the screen.
	The supported languages and features for voice interaction may differ depending on the geographical area.
123 (Number button)	When pressed, the virtual numeric pad appears on the screen so that you can enter a numeric value using it.
	Select numbers and then select <b>Done</b> to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc.
	When pressed for 1 second or more for a channel that supports the teletext service, the TTX menu appears on the TV screen. For more information, refer to "Teletext Feature".
(Colour button)	Use these coloured buttons to access additional options that are specific to the feature in use.
1 Directional pad (up/ down/left/right)	Moves the focus.
2 Select	Selects or runs a focused item. When pressed while you are watching content, detailed programme information appears.

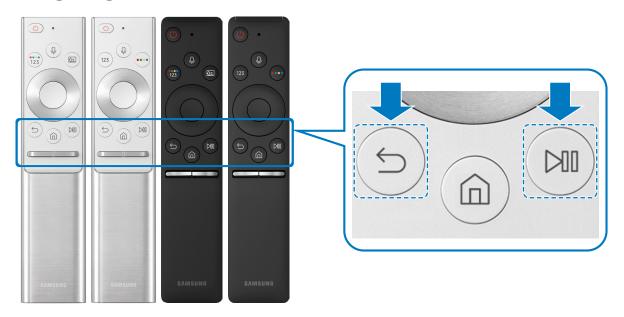
Button	Description
(Return)	Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a programme, the previous channel appears.
(Smart Hub)	Press to return to the Home Screen.
(Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.
VOL (Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 1 second or more, the Accessibility Shortcuts appears.
CH (Channel)	Move the button up or down to change the channel. To see the <b>Guide</b> screen, press the button. When pressed for 1 second or more, the <b>Channel List</b> screen appears.  Press and hold the button up or down to quickly change the channel.

- Use the Samsung Smart Remote less than 6 m from the TV. The usable distance may vary with the wireless environmental conditions.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model.
- To use the Samsung Smart Remote to control a compatible external device that does not support HDMI-CEC (Anynet+), you must configure universal remote control for the device. For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".
- To use the Samsung Smart Remote to control a compatible external device that does support HDMI-CEC (Anynet+), connect the device to an HDMI port on the TV using an HDMI cable. For more information, refer to "Using Anynet+ (HDMI-CEC)".
- This function may not be supported depending on the model or geographical area.

# Connecting the Samsung Smart Remote to the TV

#### Connect the Samsung Smart Remote to your TV to operate the TV.

When you turn on the TV for the first time, the Samsung Smart Remote pairs to the TV automatically. If the Samsung Smart Remote does not pair to the TV automatically, point it at the remote control sensor of the TV, and then press and hold the and buttons simultaneously for 3 seconds or more.



- The images, buttons, and functions of the Samsung Smart Remote may differ by model.
- The Samsung Smart Remote may not be supported depending on the model or geographical area.

# Controlling External Devices with the Samsung Smart Remote - Using the Universal Remote

Control the TV and connected external devices with the Samsung Smart Remote.

# 

You can control external devices connected to the TV using the remote control. To control external devices, register them by following the instructions on the screen.

- This function may not be supported depending on the model or geographical area.
- You can also use the **Anynet+ (HDMI-CEC)** function to operate external Samsung devices with your TV's remote control without any additional setup.
- Certain external devices connected to the TV may not support the universal remote feature.
- Do not place any obstacles in front of an external device. It may cause signals from the remote control to be transmitted improperly.
- The TV memorises both the external device and its connection port (HDMI 1, HDMI 2, etc.).
- For models that came with One Connect, if you have difficulty in controlling external devices with the Universal Remote, try adjusting the positions of the One Connect and the external devices.

# Using Anynet+ (HDMI-CEC)

#### Control an external device connected via Anynet+ (HDMI-CEC) with the remote control.

You can use the TV's remote control to control external devices that are connected to the TV by an HDMI cable and that support Anynet+ (HDMI-CEC). Note that you can only set up and operate Anynet+ (HDMI-CEC) with the remote control.

# Connecting an external device through Anynet+ and using their menus

- > Settings > General > External Device Manager > Anynet+ (HDMI-CEC) (ry Now
  - 1. Set Anynet+ (HDMI-CEC) to On.
- 2. Connect an HDMI-CEC-compliant device to the TV.
- 3. Turn on the connected external device. The device is automatically connected to the TV. After connection is finished, you can access the menu of the connected device on your TV screen using your TV remote and control the device.
- The connecting process can take up to 2 minutes to complete.

#### Read before connecting an Anynet+ (HDMI-CEC) device

- Anynet+ (HDMI-CEC)-enabled devices must be connected to the TV with an HDMI cable. Note that some HDMI cables may not support Anynet+ (HDMI-CEC).
- You can configure the TV's Universal Remote to control third-party cable boxes, Blu-ray players, and home theatres that do not support HDMI-CEC. For more information, refer to "Controlling External Devices with the Samsung Smart Remote Using the Universal Remote".
- Anynet+ cannot be used to control external devices that do not support HDMI-CEC.
- The TV remote control may not work under certain circumstances. If this occurs, set up the device as an Anynet+ (HDMI-CEC)-enabled device again.

- Anynet+ (HDMI-CEC) works only with external devices that support HDMI-CEC and only when those devices are either in standby mode or turned on.
- Anynet+ (HDMI-CEC) can control up to 12 compliant external devices (up to 3 of the same type) except for home theatres. Anynet+ (HDMI-CEC) can control only one home theatre system.
- To listen to 5.1 channel audio from an external device, connect the device to the TV via an HDMI cable and connect a 5.1 home theatre system directly to the external device's digital audio output connector.
- If an external device has been set up for both Anynet+ and a universal remote control, the device can be controlled only with the universal remote control.

# Controlling the TV with a Keyboard or Mouse

Connecting a keyboard or mouse to make it easier to control the TV.



You can connect a keyboard or mouse to make it easier to control the TV.

### Connecting a USB keyboard or mouse

Plug the keyboard or mouse cable into the USB port.

If you connect a mouse, it is available only in the **Internet** app.

#### Connecting a Bluetooth keyboard or mouse

# > Settings > General > External Device Manager > Input Device Manager > Bluetooth Device List

- This function may not be supported depending on the model or geographical area.
- If your device was not detected, position the keyboard close to the TV, and then select Refresh. The TV scans for available devices again.
- If you connect a mouse, it is available only in the **Internet** app.

# Using the keyboard and mouse

Button	Description
Directional keys	Moves the focus
Windows key	Displays the TV settings
Enter key	Selects or runs a focused item
ESC key	Returns to the previous screen
F1 / F2 / F3 / F4 key	Colour buttons — M / M / M
F5 key	Displays the Home Screen
F6 key	Displays the Source screen
F7 key	Displays the Channel List
F8 key	Mutes the sound
F9 / F10 key	Adjusts the volume
F11 / F12 key	Changes the channel
Page Up / Page Down	Scrolls a web page displayed on the Internet app.
Left-click	Available only in the Internet app. You can click a menu or link to start a function as you do on a PC.
Right-click	Available only in the Internet app. You can use the following functions:
	The options displayed on the menu may differ depending on the selected item.
	<ul><li>Open</li><li>Open Link in New Tab</li></ul>
	Enable Scroll Mode

The key operations may differ on some apps.

# Setting up the input devices

#### Setting up the keyboard

You can set up the keyboard with the following functions:

- Keyboard Language
- Keyboard type

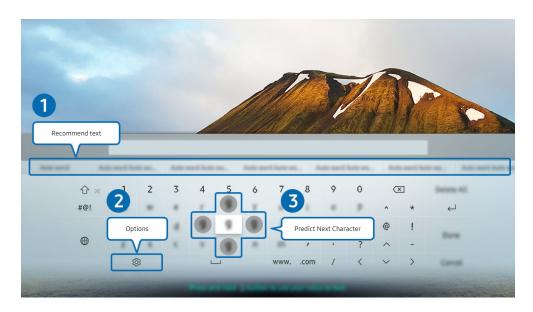
#### Setting up the mouse

You can set up the mouse with the following functions:

- Primary Button
- Pointer Speed

# Entering Text using the On-Screen Virtual Keyboard

Use the Virtual keyboard to enter text on your TV.



The image on your TV may differ from the image above depending on the model and geographical area.

#### Recommend text

When you type a word you want to search for, this function shows related suggestions from which you can choose one.

#### 2 Options

Select 🕸 on the Virtual keyboard screen. The following options are available:

- The options available may differ depending on the function running currently.
  - Recommend text
  - Reset Recommended Text Memory
  - Predict Next Character (when using direction buttons)
  - Language

#### 3 Predict Next Character

Each time you type a character on the Virtual keyboard, the next characters predicted to be typed is displayed, and you can use the directional buttons on the remote control to select one from them.

# Entering Text using the remote control's microphone and the on-screen Virtual keyboard

When the Virtual keyboard is on the screen, press and hold the button on the Samsung Smart Remote, speak into the microphone on the Samsung Smart Remote, and then release the button. What you say appears on the screen as text.



This function may not be supported depending on the model or geographical area.

# **Smart Features**

You can enjoy various apps with Smart Hub.

# **Smart Hub**

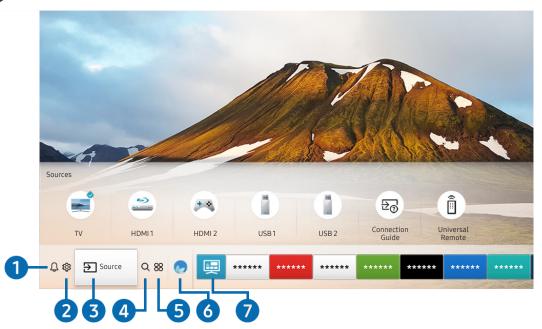
#### View descriptions of Smart Hub's basic functions.

From Smart Hub, you can use the Internet search function, install and use various apps, view photos and videos or listen to music stored on external storage devices, and perform more functions.

- Some of the **Smart Hub** services are paid services.
- To use **Smart Hub**, the TV must be connected to the Internet.
- Some Smart Hub features may not be supported depending on the service provider, language, or geographical area.
- Smart Hub service outages can be caused by disruptions in your Internet service.
- You can view the entire text of the Terms & Policy document by navigating to > Settings > Support > Terms & Policy. (Try Now)
- If you want to stop using Smart Hub, you can cancel the agreement. To cancel the Smart Hub service agreement though it is a required one, select Reset Smart Hub ( Settings > Support > Self Diagnosis > Reset Smart Hub).

#### Displaying the Home Screen

Press the fabruary button.



The image on your TV may differ from the image above depending on the model and geographical area.

On the Home Screen, you can easily run the apps you have used previously or frequently. The apps can also be moved or deleted from the screen.

#### 

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when it is time to broadcast a scheduled programme or when an event occurs on a registered device.

If you move the focus to **Notification**, and then press the Select button, a notification window appears on the right and the following functions are available:

- III Delete All
  - You can delete all your notifications.
- ☼ Settings
  - You can select services you want to be notified about.
  - When you select Allow sound, notifications are displayed with a notification sound.

#### ② 袋 Settings

When the focus is moved to the 🐯 icon, a list of quick settings icons appears above the top of the menu. You can quickly set frequently used functions by clicking the icons.

#### Picture Mode

You can select the picture mode that provides the best viewing experience. To change the picture mode, press the Select button. To make fine adjustments, press the up directional button, and then select **Picture Setup**.

#### Sound Mode

You can select a sound mode to optimise your listening experience. To change the sound mode, press the Select button. To make fine adjustments, press the up directional button, and then select **Equaliser Setup**.

#### Sound Output

You can select which speakers the TV uses for audio output. To change the audio output, press the Select button. To connect to a Bluetooth speaker, press the up directional button, and then select \$ Speaker List.

Connecting to a Bluetooth speaker may not be supported depending on the model or geographical area.

#### Subtitle

You can watch TV broadcasts with subtitles. To activate/deactivate the **Subtitle** function, press the Select button. To run **Accessibility Shortcuts**, press the up directional button, and then select **Accessibility Shortcuts**.

#### Audio Language

You can change the audio language you want to hear. To make fine adjustments, press the up directional button, and then select **Go to Audio Options**.

#### PIP

While using a connected external device, you can watch a TV broadcast in a small picture-in-picture (PIP) window. To make fine adjustments, press the up directional button, and then select PIP Setup.

This function may not be supported depending on the model or geographical area.

#### Network

You can view the current network and Internet status. Press the up directional button, and then select **Network Status** or **Network Settings**.

- Pressing Settings displays all setting menus available.
- This function may not be supported depending on the model or geographical area.

#### 3 Source

You can select an external device connected to the TV.

For more information, refer to "Switching between external devices connected to the TV".

#### 4 Q Search

You can search the apps or games in Smart Hub services.

To use this feature, the TV must be connected to the Internet.

#### 6 % APPS

You can enjoy a wide range of content including news, sports, weather, and games by installing the corresponding apps on your TV.

- To use this feature, the TV must be connected to the Internet.
- For more information, refer to "Using the Apps Service".

#### 6 Ambient Mode

In Ambient Mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient Mode, press the button. To return to the TV mode, press the button. To shut off the TV, press the button.

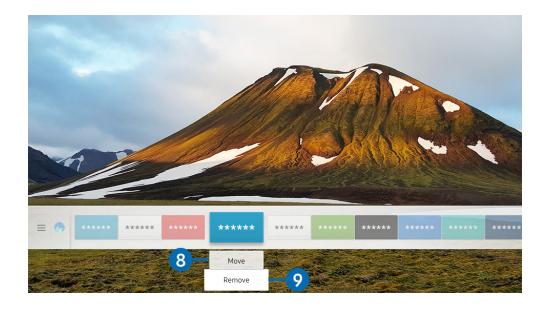
If you press the button when the TV is turned off, the TV turns on in Ambient Mode.

- If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering Ambient Mode.
- Because this function is a QLED TV-specific function, it may not be supported depending on the model.
- For more information about the **Ambient Mode**, refer to "Using the Ambient Mode".

#### Universal Guide

**Universal Guide** is an app that allows you to search for and enjoy various content such as TV shows, dramas, movies, and music in one place. **Universal Guide** can recommend content tailored to your preferences and notify you of new drama series.

- For more information about the **Universal Guide**, refer to "<u>Using the Universal Guide App</u>".
- Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.



The image on your TV may differ from the image above depending on the model and geographical area.

#### 8 Moving an item on the Home Screen

Move the focus to the app you want to move, press the down directional button on the remote control, and then select Move. Move the app to the desired position by pressing the left or right directional button, and then press the Select button. The selected app is moved on the Home screen.

#### 9 Removing an item on the Home Screen

Move the focus to the app you want to delete, press the down directional button on the remote control, and then select **Remove**. The selected app is deleted.

You can add the apps you want to use often to the Home Screen using APPS. To add your favourite apps to the Home Screen, refer to "Managing purchased or installed apps".

#### Launching Smart Hub automatically



⋒ > 🕸 Settings > General > Smart Features > Autorun Smart Hub (ry Now)

When you set Autorun Smart Hub to On, the TV displays the Home Screen automatically when you turn the TV on. You can also turn on or off this function, use the Select button.

# Launching the last used app automatically



If Autorun Last App is set to On, the last used app is automatically run when you turn on the TV. You can also turn on or off this function, use the Select button.



This function may not be supported depending on the app.

#### **Testing Smart Hub connections**



> Settings > Support > Self Diagnosis > Start Smart Hub Connection Test (ry Now)

### **Resetting Smart Hub**





You can reset the Smart Hub settings. To reset Smart Hub, enter the PIN. The default PIN is "0000" (for France and Italy: "1111"). You can set the PIN in 🍙 > 🔯 Settings > General > System Manager > Change PIN.

# Using a Samsung account

Create and manage your own Samsung account.

#### Creating and managing your Samsung account

- You can view the entire text of the Terms and Privacy Policy in > Settings > General > System Manager > Samsung Account > My Account > Terms & Conditions, Privacy Policy after logging in to your Samsung account.
- You can also create a Samsung account at http://account.samsung.com. Once you have an account, you can use the same ID on both the TV and the Samsung website.
- Add Account appears or not, depending on whether you are logged in to your Samsung account.

#### Creating a new account

To create a new Samsung account, follow the instructions on the screen.

- For more information about the terms, select View Details.
- To protect personal information, select **Profile image selection and password entry (High security)** in the field below the password entry bar.
- If you want the TV to log you into your account automatically whenever you turn on the TV, click Sign me in automatically.

#### Creating a Samsung account using a Facebook account

> Settings > General > System Manager > Samsung Account > (Add Account) > Create with Facebook

#### Creating a Samsung account using a PayPal account

> Settings > General > System Manager > Samsung Account > (Add Account) > Create with PayPal

This function may not be supported depending on the model or geographical area.

#### Signing in to a Samsung account

#### Changing and adding information to a Samsung account

profile

To change the account information, you must be logged in to your Samsung account.

#### Managing payment information saved on the TV

Info

0

To manage the payment information, you must be logged in to your Samsung account.

#### Configure the Sync Internet settings

Internet

Once you sign in to your Samsung account and configure the sync Internet settings, you can share your favourites that you registered using other devices.

To configure the **Sync Internet** settings, you must be logged in to your Samsung account.

#### Deleting a Samsung account from the TV

#### 

- To remove account information, you must be logged in to your Samsung account.
- Although you delete your Samsung account, you are not unsubscribed yet. To unsubscribe from your Samsung Account, visit the Samsung Accounts website (http://account.samsung.com).

#### Signing out of your Samsung account

To sign out of your Samsung account, move the focus to your account at > Settings > General > System Manager > Samsung Account, and then press the Select button. Or move to My Account ( > Settings > General > System Manager > Samsung Account > My Account), and then select Sign out.

#### Viewing the user agreement and privacy policy

To view the user agreement and privacy policy, you must be logged in to your Samsung account.

# Using the Ambient Mode

Learn about the functions available in Ambient Mode, which is a QLED TV-specific function.



In Ambient Mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient Mode, press the button. To return to the TV mode, press the button. To shut off the TV, press the button.

If you press the button when the TV is turned off, the TV turns on in Ambient Mode.

- If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering **Ambient Mode**.
- Because this function is a QLED TV-specific function, it may not be supported depending on the model.
- To activate the 
   and 
   menus, first select a content item in Ambient Mode.

#### Screen states related to Ambient Mode

Ambient Mode

In Ambient Mode, you can set up and enjoy visual information and design. In this state, less power is consumed and brightness is automatically adjusted by the illuminance sensor.

Getting dark state

In Ambient Mode, the TV screen changes automatically according to the surroundings. When the surroundings get dark, the TV screen becomes darker. When the surroundings get bright before the TV screen turns completely black or when the remote control or the Voice Interaction function is operated, the TV screen returns to Ambient Mode.

- You can change the auto brightness setting for **Ambient Mode**. For more information, refer to "Setting up the Ambient Mode details".
- In this state, the TV is ready to process voice guides and voice commands.
- Black screen state

In Ambient Mode, if the surroundings get to a specific level of darkness, the TV turns soft-off. To turn the screen back on in Ambient Mode, press the button on the remote control.

- You can change the auto brightness setting for **Ambient Mode**. For more information, refer to "Setting up the Ambient Mode details".
- In this state, the TV cannot process voice guides and voice commands.

#### TV off state

To enter **Ambient Mode** when the TV is turned off, press the button on the remote control. To enter TV mode when the TV is turned off, press the button. In TV mode, you can watch broadcasts or enjoy the content on the external devices connected.

# Changing the content and settings for Ambient Mode



The image on your TV may differ from the image above depending on the model and geographical area.

When you press the or button in Ambient Mode, the Ambient Mode browser screen appears. In the Ambient Mode browser screen, you can select content and change the Ambient Mode settings.

#### Setting up the content for Ambient Mode

The Ambient Mode browser screen displays content at the top and categories at the bottom. Use the left or right directional buttons in the content list at the top to move the focus to content you want, and then press the Select button. The selected content is played in Ambient Mode.

In the future, more content that you can set up in the Ambient Mode browser will be provided.

You can select the following categories and content:

- Décor: Provides beautiful screens.
- Info: Provides information such as weather, news headlines, and more.
  - This function may not be supported depending on the geographical area.
- Photo: Allows you to set a picture stored in your mobile device as the wallpaper of the Ambient Mode screen. You can configure special layouts with your photos.
  - To save photos from your mobile device to the TV and import them in **Ambient Mode**, use the SmartThings app on your mobile device.

#### Setting up the Ambient Mode details

In the **Ambient Mode** browser screen, move the focus to **3**, and then press the Select button. You can change the following settings:

- Brightness: Adjust the screen brightness for Ambient Mode.
- Colour Tone: Adjust the colours of the screen for Ambient Mode.
- Auto Brightness: Change the auto brightness setting for Ambient Mode.
  - When this function is set to **Off**, the brightness level of the TV screen is not automatically adjusted according to the ambient light level.
- Ambient Off Timer: Set the time that the Ambient Mode screen turns off automatically.
  - If there is no remote control input for the set time, the screen goes off. To turn the screen back on in **Ambient Mode**, press the button on the remote control.

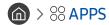
#### Changing the background colour of Ambient Mode

To change the background colour of **Ambient Mode**, move the focus to  $\centsymbol{\begin{align*}{c}} \centsymbol{mode} in the$ **Ambient Mode**browser screen, and then press the Select button. You can change the background colour or pattern. Move the focus to a colour or pattern you want, and then press the Select button.

Take a picture of a wall using the SmartThings app on your mobile device to set it as the background of **Ambient Mode**.
This function may have a delay in image transmission and optimisation depending on the network conditions.

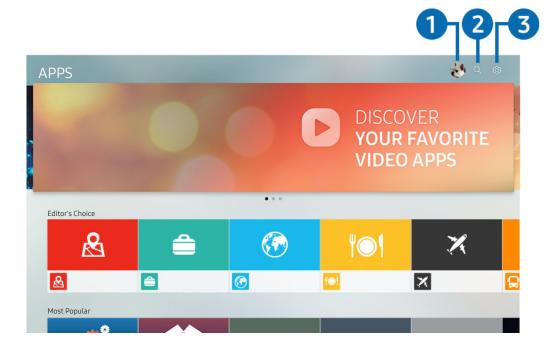
# Using the Apps Service

Download and run various apps from Smart Hub.



You can enjoy a wide range of content including news, sports, weather, and games by installing the corresponding apps on your TV.

- To use this feature, the TV must be connected to the Internet.
- When Smart Hub is launched for the first time, the default apps are automatically installed. The default apps may differ depending on the geographical area.



- The image on your TV may differ from the image above depending on the model and geographical area.
- 1 & Sign In

Go to the Samsung Account screen to create a new account or sign in to your account.

2 Q App Search

You can search for available apps.

③ Settings

You can manage the installed apps.

#### Installing and running an app

#### Installing an app

- 1. Move to the app you want to install, and then press the Select button. The detailed information screen appears.
- 2. Select Install. When the installation is completed, the Open menu appears.
- 3. Select Open to run the app immediately.
- You can view installed apps on the **Settings** screen.
- If the TV's internal memory is insufficient, you can install some specific apps on a USB device.
- You can run an app installed on a USB device only when the USB device is connected to the TV. If the USB device is disconnected while an app is running, the app is terminated.
- You cannot run an app installed on a USB device on a PC or another TV.

#### Launching an app

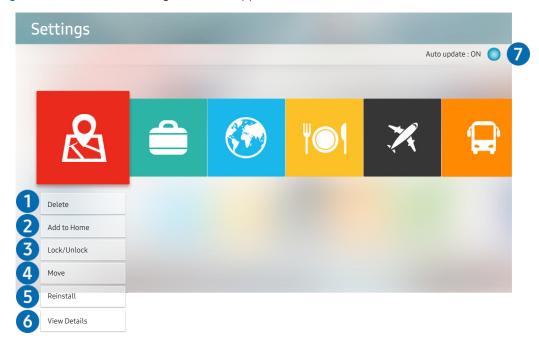
You can run the app desired from **Downloaded App**.

The icons below appear within the selected app's icon and indicate the following:

- ①: The app is installed on a USB device.
- ①: The app has a password.
- ©: The app needs to be updated.
- ②: The app supports mirroring function.

# Managing purchased or installed apps

Select Settings on APPS. You can manage installed apps.



The image on your TV may differ from the image above depending on the model and geographical area.

#### Removing an app

- 1. Move the focus to an app to delete.
- 2. Select Delete.

The selected app is deleted.

Ensure that the related app data is also removed when you remove an app.

## 2 Adding apps to the Home Screen

- 1. Move the focus to an app to add.
- 2. Select Add to Home.
- 3. After the Home screen appears, move the selected app to the desired location.
- 4. Press the Select button.

The selected app is added to the Home Screen.

#### 3 Locking and unlocking apps

- 1. Move the focus to an app to lock or unlock.
- Select Lock/Unlock.

The selected app is locked or unlocked.

To lock or unlock an app, enter the PIN. The default PIN is "0000" (for France and Italy: "1111"). You can set the PIN in > Settings > General > System Manager > Change PIN.

#### 4 Moving apps

- 1. Move the focus to an app to move.
- 2. Select Move.
- 3. Move the selected app to the desired location.
- 4. Press the Select button.

The selected app is moved.

This function may not be supported depending on the model or geographical area.

#### 6 Reinstalling an app

- 1. Move the focus to the app to install again.
- 2. Select Reinstall.

Reinstallation starts.

#### 6 Checking the app information details

- 1. Move the focus to the app to check.
- 2. Select View Details.

The app information screen appears.

✓ You can rate an app on the detailed information screen using the left or right directional button on the remote.

#### Automatically updating apps

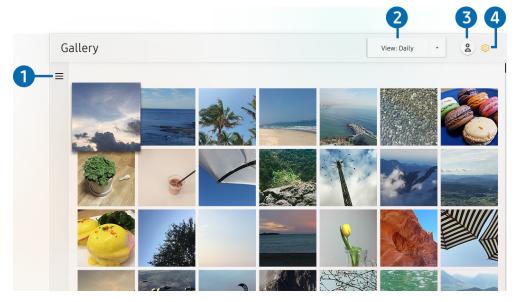
Installed apps can be automatically updated. If you do not want apps automatically updated, set Auto update to OFF.

Automatic update is enabled only when the TV is connected to the Internet.

# Using the Gallery App

View photos and videos synchronised with the Samsung Cloud.





The image on your TV may differ from the image above depending on the model and geographical area.

You can enjoy various content synchronised with a mobile device that supports the Samsung Cloud. The available content types are photos, videos, stories, and other content shared through your groups.

If you have shared content from your groups, you can access them in notifications.

To use the Gallery app, you must be signed in to your Samsung account.

#### 

Move to  $\equiv$  at the top left of the screen using the directional buttons on the remote control to view the content synchronised with the Samsung Cloud by category.

# 2 View: Daily / View: Monthly

Sort the content by day or month.

#### 3 🖄 Sign In

Go to the Samsung Account screen to create a new account or sign in to your account.

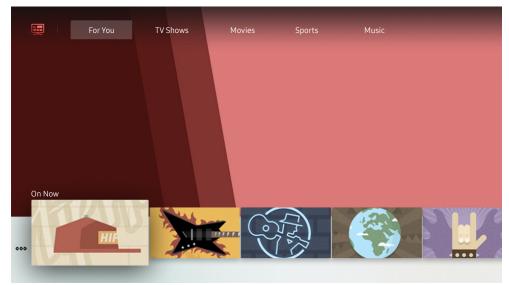
# 

Restrict access to the Gallery app to protect your privacy, or view the user agreement and privacy policy.

# Using the Universal Guide App

Search for and enjoy content such as TV shows, dramas, movies, sports broadcasts, and music.





The image on your TV may differ from the image above depending on the model and geographical area.

**Universal Guide** is an app that allows you to search for and enjoy various content such as TV shows, dramas, movies, and music in one place. **Universal Guide** can recommend content tailored to your preferences and notify you of new drama series.

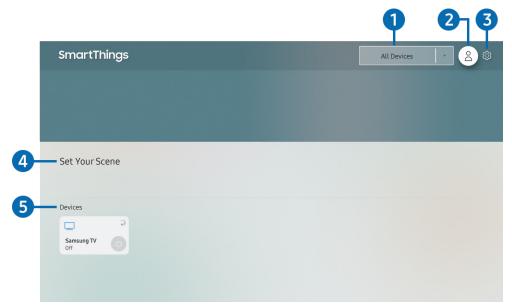
You can use this feature on your mobile with Samsung SmartThings app.

- To enjoy the content from these apps on your TV, they must be installed on the TV.
- When you watch some paid content, you may need to make a payment using their associated app.
- Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.

# Using the SmartThings App

Monitor and configure the smart devices you have connected to the SmartThings service.

# > SmartThings



The image on your TV may differ from the image above depending on the model and geographical area.

From the TV, you can monitor and configure your smart devices connected to the SmartThings service via the SmartThings app installed on them. You can receive notifications about the statuses of your smart devices.

- To use this function, you must be logged in to your Samsung account.
- This function may not be supported depending on the model or geographical area.

#### 1 Location selection list

Press the Select button to identify all connected devices or the devices specific to a location.

2 Sign In

Go to the Samsung Account screen to create a new account or sign in to your account.

③ Settings

Turn notifications on or off for the connected smart devices.

4 Set Your Scene

Create a custom mode to easily control multiple devices with a single command.

6 Device list

View a list of the connected smart devices and their statuses.

You can add a new device through the SmartThings app on your mobile phone. Please refer to the user guide in the SmartThings app for more details.

## Using the e-Manual

Control and read the manual embedded in your TV.

## Launching the e-Manual

You can view the embedded e-Manual that contains information about your TV's key features.

- Alternatively, you can download a copy of the e-Manual from Samsung's website.
- Words in blue (e.g., Picture Mode) indicate a menu item.

## Using the buttons in the e-Manual

- Q (Search): Select an item from the search results to load the corresponding page.
- A-Z (Index): Select a keyword to navigate to the relevant page.
  - The menus may not appear depending on the geographical area.
- (Recent pages): Select a topic from the list of recently viewed topics.
- (Try Now): Allows you to access the corresponding menu item and try out the feature right away.
- (Link): Access an underlined topic referred to on an e-Manual page immediately.
- Some menu screens cannot be accessed from the e-Manual.

## Using the Internet

Surf the Internet on your TV.

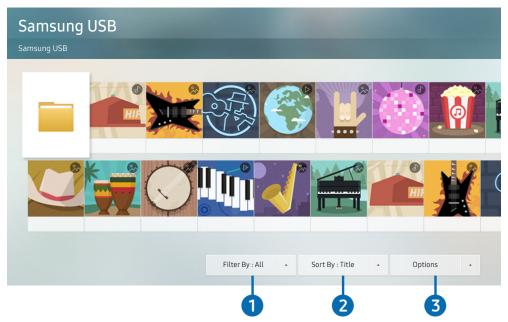


When you run Internet, you can see recently viewed web sites or featured recommendations. When you select a desired web site, you can get immediate access to it.

- You can use the **Internet** more easily after connecting a keyboard and mouse.
- You can scroll web pages with the Directional pad.
- The web pages may differ from those on a PC.
- For more information about the Internet, refer to "Read Before Using the Internet".

## Playing pictures/video/music

Play media content stored on your TV, USB devices, smartphones, cameras, PCs, etc.



The image on your TV may differ from the image above depending on the model and geographical area.

You can play media content saved on storage devices, such as USB devices, mobile devices, and cameras, on the TV.

- You cannot play media content if the content or the storage device is not supported by the TV. For more information, refer to "Read Before Playing Photo, Video, or Music Files".
- Backup important files before connecting a USB device. Samsung is not responsible for damaged or lost files.
- To connect the TV to a mobile device, refer to "Connecting Your Mobile Device".

You can use the following functions on the media content list screen of a storage device.

### 1 Filter By

Filters the media content by type of media.

### 2 Sort By

Sorts the content list.

This function may not be supported depending on the type of external device.

### Options

Deletes or plays the selected media content in the media content list. When you select **Refresh**, the content list is reloaded

You can delete only the recorded content. To delete content, change the Filter By option to Recorded.

## Playing media content

### Playing multimedia content on a PC or mobile device

- 1. Select a device with media content in  $\bigcirc$  > Source. The media content list in the device appears.
- 2. Select a media content item from the list.

The content is played.

- For more information about buttons, refer to "Buttons and functions available while playing multimedia content".
- The content may not be played depending on the encoding method or file format. Furthermore, several functions may be restricted.
- © Content on devices connected to the TV via your network may not play smoothly due to the network communication problems. If this occurs, use a USB device.
- For more information about connection to mobile device, refer to "Connecting Your Mobile Device".

### Playing multimedia content on a USB device

- 1. Connect a USB device to the USB port. When a pop up message appears on the screen, select **Browse** to easily move to the list of multimedia content list stored on the device.
- 2. Select a content item to play from the list.

The content is played back.

## **Using Voice Interaction**

#### Speak into the microphone on your Samsung Smart Remote to control your TV.

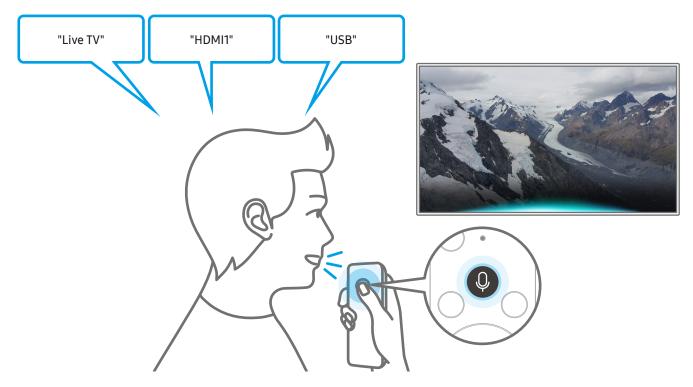
- This function may not be supported depending on the model or geographical area.
- The supported language may differ depending on the geographical area.

## **Running Voice Interaction**

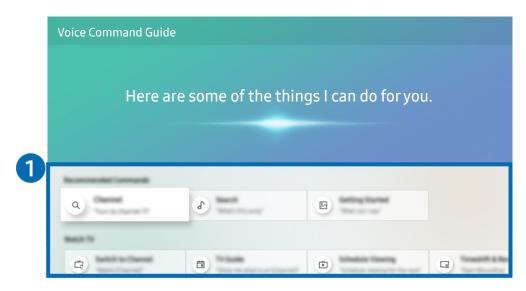
Press and hold the button on your Samsung Smart Remote, say a command, and then release the button. The TV recognises the voice command.

To view the **Voice Interaction** guide, press the **U** button once:

- When you press the button for the first time, the Using Voice Interaction button appears at the bottom of the screen. Press the Select button. The Using Voice Interaction popup window appears and a tutorial on using Voice Interaction is shown.
- When you press the button, the Enter Voice Command Guide button appears at the bottom of the screen. Press the Select button to go to the Voice Command Guide screen.



## Learning about Voice Command Guide



The image on your TV may differ from the image above depending on the model and geographical area.

### 1 Voice Command Guide

You can learn the voice commands to use the **Voice Interaction** in various situations. Use the directional buttons to move to the desired command, and then press the Select button. You can operate the TV with various voice commands.

To view a tutorial on **Voice Interaction**, use the directional buttons to move to the bottom, and then select the **View Tutorial** item.

### Read Before Using Voice Interaction

#### Precautions for Voice Interaction

- The supported voice interaction languages and features may differ depending on the geographical area.
- If the language set differs from the language of your country, some features are not available.
- Voice Interaction is available only when the TV is connected to the Internet.
- Even if the TV is connected to the Internet, there may be no response due to a Voice Interaction server error.
- The existing functional specifications may be changed if Voice Interaction is updated.
- **Voice Interaction** is available only on TVs that support it and come with remote controls that have a microphone.
- Symbols including "-" and special characters are not supported. Consequently, if a word or sentence contains numeric values or symbols, the function may not operate properly.
- Searched results may not provide complete results.
- You may be required to pay for some apps. Consequently, you may encounter a service application or contract.
- To change the current channel by saying channel names as voice commands, you must finish Set Up Your Service Provider. If Set Up Your Service Provider is not completed, you can complete it using the following menu.
  - ♠ > ♦ Settings > General > Start Setup (ry Now)
- To use the voice text input function and Smart search function, you must consent to provisions allowing third parties to collect and use your voice data.
- To use the Voice Interaction function, you must:
  - Agree to Smart Hub's Terms of Use
  - Agree to a guidance regarding the collection and use of personal information for the Smart Hub service.
  - Consent to the collection and use of personal information for the voice interaction-based service.

#### Requirements for using Voice Interaction

- The voice interaction rate differs with the volume/tone, pronunciation, and ambient sound environment (TV sound and ambient noise).
- The optimal volume for voice commands is between 75 dB and 80 dB.

# TV Viewing

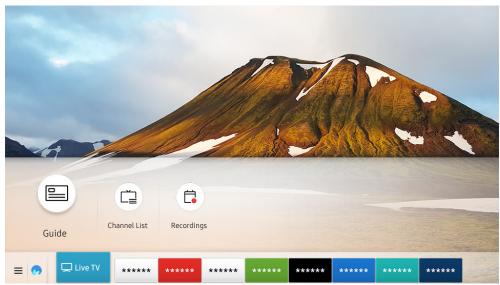
You can use convenient features while watching TV. Additionally, you can edit the channel list or create favourite channel lists.

## Viewing Digital Broadcast Information at a Glance

See an overview of each channel's programme lineup.

## Using the guide





The image on your TV may differ from the image above depending on the model and geographical area.

In the **Guide**, you can see the daily programme schedules for each broadcaster, see programme information, choose a programme to watch, and set up a schedule viewing or recording.

- The **Guide** also appears when you press the **CH** button while watching TV.
- On standard remote control, press the **GUIDE** button.
- To see information about analogue channels and use the analogue channel functions of the **Guide**, you must finish the service provider settings in initial setup.
- To view the Guide, you must first set the TV's clock ( Settings > General > System Manager > Time > Clock).

To start Scheduled viewing, Scheduled recording, and other function for a programme listed in the **Guide**, first move the cursor to it and then press and hold Select button on the remote control to use follows functions:

- Record: You can record the programme that you are currently watching or a programme on another channel.
  - This function may not be supported depending on the model or geographical area.
- Schedule Viewing: You can schedule viewing of a broadcast scheduled programme.
  - This function may not be supported depending on the model or geographical area.
  - For more information about watching or **Schedule Viewing**, refer to "Setting Up a Schedule Viewing".
- Schedule Recording: You can schedule recording of a broadcast scheduled programme.
  - This function may not be supported depending on the model or geographical area.
  - For more information about recording or **Schedule Recording**, refer to "Recording Programmes".
- Edit Recording Time: You can change the start and end times of scheduled programme recordings.
  - This function may not be supported depending on the model or geographical area.
- Stop: You can stop the recording function that is currently running.
- Cancel Scheduled Viewing / Cancel Scheduled Recording: You can cancel scheduled viewings and recordings.
  - This function may not be supported depending on the model or geographical area.
- View Details: You can see detailed information about the selected programme. The information may differ with the broadcast signal. If information is not provided with the programme, nothing appears.

To move to the **Channel Filter** or **Schedule Manager** screen: Press the 123 or 150 button. (If the remote control button is 123, press it twice.)

- Channel Filter: You can view channels and programmes categorised by the types defined in Channel List.
- Schedule Manager: You can see the Schedule Manager or Recording & Schedule Manager screen.
- Aerial Type: You can change the broadcast signal to receive.
  - This function may not be supported depending on the incoming broadcast signal.
- This function may not be supported depending on the model or geographical area.

## **Recording Programmes**

#### Record a current or upcoming programme using a USB device instead of a video recorder.

- Read all precautions before using the recording feature. Refer to "Before Using the Recording and Timeshift Functions" for more information.
- You can record only the programmes that have been received through an aerial.
- The appears next to the programmes and channels scheduled for recording.
- This function may not be supported depending on the model or geographical area.
- If you go to > Live TV while no USB device is connected, the Schedule Manager screen appears in place of the Recordings screen.

## Recording programmes

### Using the instant and schedule recording options from the guide screen

Instant Recording

Select a live programme from the **Guide**, press and hold the Select button, and then select **Record** from the pop-up menu to start recording immediately.

Schedule Recording

Select a programme scheduled to be broadcast, press the Select button, and then select **Schedule Recording** to set up a schedule recording of the scheduled programme.

### Using the instant and schedule recording options while watching a programme

Instant Recording

If you select **Record** after pressing the property of the select **Record** after pressing the button while watching a broadcast, recording starts.

• Schedule Recording

Press the Select button while watching a programme to display the programme info window. Use the left or right directional button to select a scheduled programme. Press the Select button, and then select **Schedule Recording** to set up a schedule recording of the scheduled programme.

#### Scheduling a video recording after entering the date and time

(a) > Live TV > Schedule Manager or Recordings > Schedules > Add Recording

To schedule a recording, set the values for Aerial, Channel, Repeat, Date, Start Time, and End Time of the broadcast programme to record, and then select Save.

- The menus may not appear depending on the model or geographical area.

## Managing the schedule recording list

(a) > Live TV > Schedule Manager or Recordings > Schedules

You can change scheduled recording information or cancel scheduled recordings.

- The menus may not appear depending on the model or geographical area.
- You can schedule up to 30 recordings or viewings at once using Schedule Recording and Schedule Viewing.

### Setting the Schedule Recording Time

(a) > Live TV > Schedule Manager or Recordings > Schedules > Edit

You can set the start and end times for a schedule recording. You can set the start time up to 10 minutes before the programme starts and the end time up to 10 minutes after the programme ends.

The menus may not appear depending on the model or geographical area.

### Canceling a schedule recording

- (a) > Live TV > Schedule Manager or Recordings > Schedules > Delete
- The menus may not appear depending on the model or geographical area.

### Checking scheduled recordings

- (a) > Live TV > Schedule Manager or Recordings > Schedules > View Details
- The menus may not appear depending on the model or geographical area.

### Viewing recorded programmes

\[
 \text{Live TV > Schedule Manager or Recordings > Recordings
 \]

Select a file containing a recording from the list. The file is played back.

- Buttons that appear may differ depending on the file being played. For more information about control buttons, refer to "Buttons and functions available while recording a programme or Timeshift".
- This function may not be supported depending on the model or geographical area.
- The menus may not appear depending on the model or geographical area.

### Setting up a schedule recording start



- Start Recording Early: You can set the time to start the recording earlier than the broadcast start time in the programme guide.
- Continue Recording After: You can set the time to end the recording later than the broadcast end time in the programme guide.
- Symbol Information: Provide users with the information of the symbol and the explanation about an icon used in the schedule manager.
  - The menus may not appear depending on the model or geographical area.

## Setting Up a Schedule Viewing

Configure the TV to show a specific channel or programme at a specific time and date.

- The Pappears next to programmes that have been configured for a schedule viewing.
- To set up a schedule viewing, you must first set the TV's clock ( Settings > General > System Manager > Time > Clock).

## Setting up a schedule viewing for a channel

#### Using the schedule viewing options from the guide screen

On the Guide screen, select a programme you would like to view, press the Select button, and then select Schedule Viewing in the pop-up menu that appears.

#### Using the schedule viewing options in the programme info window

Press the Select button while watching TV. The Programme Info window appears. Select a programme that will be broadcast using the left or right directional buttons. Press the Select button, and then select **Schedule Viewing** to schedule viewing of that programme.

#### Using schedule viewing to view programmes at a specified time on a specified date

> Live TV > Schedule Manager or Recordings > Schedules > Add Viewing

To schedule a Viewing, set the values for Aerial, Channel, Repeat, Date, and Start Time of the broadcast programme to record, and then select Save.

Check the current time in > Settings > General > System Manager > Time > Clock.

The menus may not appear depending on the model or geographical area.

### Editing a schedule viewing

- (a) > Live TV > Schedule Manager or Recordings > Schedules
- You can set up a maximum total of 30 Schedule Viewing and Schedule Recording entries.
- The menus may not appear depending on the model or geographical area.

### Setting the Schedule Viewing Time

> Live TV > Schedule Manager or Recordings > Schedules > Edit

You can set the start time of a schedule viewing. If you choose a programme from the **Guide**, the **Start Time** can be set up to 10 minutes before the programme.

The menus may not appear depending on the model or geographical area.

#### Canceling a scheduled viewing

- (a) > Live TV > Schedule Manager or Recordings > Schedules > Delete
- The menus may not appear depending on the model or geographical area.

### Checking scheduled viewings

- (a) > Live TV > Schedule Manager or Recordings > Schedules > View Details
- The menus may not appear depending on the model or geographical area.

## **Using Timeshift**

#### Play, pause, or rewind live TV.

You can pause and rewind live TV by using Timeshift. Activating this function disables the Broadcasting function.



To activate the **Timeshift** function while watching TV, press the button and then select **Timeshift**, or press the button.

- To use Timeshift, you must connect a USB device for recording.
- Read all precautions before using the Timeshift function. For more information, refer to "Before Using the Recording and Timeshift Functions".
- This function may not be supported depending on the model or geographical area.

## Buttons and functions available while recording a programme or Timeshift

Review available buttons and functions of how they are used while recording a programme or Timeshift.

- The available buttons and functions may differ with the functions.
- This function may not be supported depending on the model or geographical area.

When you press the down directional button, the control bar appears and the following options are available:

• Edit Recording Time

You can set for what period of time the programme will be recorded.

This function is only available when a programme is being recorded.

Record

You switch from the Timeshift function to the recording function. When switching to the recording function, you can include the content recorded by the Timeshift function into the new recording.

This function is only available when the Timeshift function is running.

#### Go to Live TV

Select to return to the current scenes of the programme when the recording or Timeshift function is playing its past scenes.

#### Stop Recording / Stop Timeshift

Ends the recording or Timeshift function.

#### Info

Displays the programme info window about the programme on which the recording or Timeshift function is working.

#### Pause / Play

You can use the following functions when the video is paused. (Note that with the video paused, the TV does not play audio.)

- Slow Rewind or Slow Forward: Allows you to play the video slowly (1/8, 1/4, 1/2) backward or forward by selecting the 
   or 
   or potion. To increase the rewind or forward speed in slow mode up to 3 times, select the option repeatedly. To return to normal speed, select the poption.
  - When the **Slow Rewind** function is activated, you can view the difference between the current recording time and the current rewind time.
- Jump Backward / Jump Forward: Press the up directional button to move the focus to the playback control bar, and then select the left or right directional button in the playback control bar to move backward or forward by 10 seconds in the video.
  - When the Jump Backward function is activated, you can view the difference between the current recording time and the current rewind time.

#### Rewind / Fast Forward

This function is not available while you are watching a programme that is currently being broadcast.

## Using the Channel List

Change the channel or check programmes on other digital channels.



Using the **Channel List**, you can change the channel or check programmes on other digital channels while watching TV. On standard remote control, press the **CH LIST** button.

The All screen contains the following icons:

- A favourite channel
- A locked channel.

If you press the right directional button when viewing the Channel List screen, you can use the following functions:

All

Displays the channels that have been automatically searched.

#### TV PLUS

While the TV is connected to the Internet, you can watch popular programmes or highlights for each theme through a virtual channel at any time. As with regular channels, the TV provides the daily programme schedules for TV PLUS.

This function may not be supported depending on the model or geographical area.

#### Favourites

Displays Favourites 1 to Favourites 5.

#### Channel Type

Sorts the list so that it includes channels of a selected type. However, **Channel Type** can only be used channels contain the type information.

This function may not be supported depending on the incoming broadcast signal.

#### Sort

Sorts the list by Number or by Name.

This option is only available on digital channels and may not always be available.

#### Terrestrial, Cable, or Satellite

Allows you to choose between Terrestrial, Cable, and Satellite.

- This function may not be supported depending on the incoming broadcast signal.
- This function may not be supported depending on the model or geographical area.

## **Editing channels**

Edit the channels stored on your TV.

> Live TV > Channel List > All > Edit Channels

The Edit Channels screen icons indicate the following:

- : A favourite channel
- a : A locked channel.

### Removing registered channels

To remove a channel, select it from the Edit Channels screen, and then select Delete. Removed channels do not appear in the Channel List.

## Editing registered channels

You can access the following options by selecting All > Edit Channels:

Locking or unlocking a channel

After selecting a target channel in Edit Channels, select Lock or Unlock. Then the channel is locked or unlocked. A locked channel cannot be viewed.

- If you want to set the password, set (in )> (is Settings > Broadcasting > Apply Channel Lock to On.
- For more information about how to set your password, refer to "Setting up a password".
- Changing a channel name

After selecting a channel to change in Edit Channels, select Rename channel to change the channel name.

- This function is only available for selected channels.
- This function is only available for analogue broadcasts.
- Change Number

After selecting a channel to change in Edit Channels, select Change Number to change the channel number.

- This function may not be supported depending on the model or geographical area.
- When a channel number is changed, its channel information is not updated automatically.

#### Restore TV PLUS

You can re-scan and store TV PLUS channels that have been received.

- If there are TV PLUS channels on the TV, after deleting the stored channels, the system stores the newly scanned channels.
- If the TV has saved TV PLUS channels, Restore TV PLUS deletes the existing list, and then saves the newly scanned channels
- This function may not be supported depending on the model or geographical area.

## Creating a Personal Favourites List

Designate frequently watched channels as favourite channels.

Favourite channels are highlighted in the **Edit Channels** and **Channel List** screens with the symbol. You can create up to five favourites lists so that your family can create their own personal favourites list.

## Registering channels as favourites

### (ii) > Live TV > Channel List

- 1. Press the right directional button on your remote control.
- 2 Select Favourites.
- 3. Select one of the five favourites lists.
- 4 Move to Edit Favourites.
- 5. Select a channel to add to the favourites list.
- 6. Select ∑icon.

The selected channel is registered in the favourites list.

## Viewing and selecting channels on Favourites lists only

## 

- 1. Press the right directional button on your remote control.
- 2. Select Favourites.
- 3. Select the desired list among the five favourites lists on the screen.

The channels in the selected favourites list appear.

Only favourites lists that contain registered channels will display channels.

## **Editing a Favourites List**

Use the functions that are available while watching TV.



After pressing the right directional button on your remote control, select Favourites > Favourites 1 - Favourites 5 > Edit Favourites. The Edit Favourites screen appears.

## Adding channels to favourites list

Select channels to add and select the  $\bigcirc$  icon. The selected channels are added to Favourites.

## Removing channels from a favourites list

Select channels in a favourites list, and then select the | con.

## Rearranging a favourites list

Select one or more channels, and then select **Change order**. The **Change order** highlight appears. Press the up/down directional buttons to indicate the new location for the channels. Press the Select button to set the channels into their new location.

### Renaming a favourites list

Select the favourites list you want to rename, and then select **Rename Favourites**. Enter a new name using the onscreen keyboard that appears, and then select **Done**.

## **TV-Viewing Support Functions**

Use the functions that are supported by digital or analogue channels.

## Changing the broadcast signal



After pressing the right directional button on your remote control, and then move the focus to **Terrestrial** or **Cable**, press the Select button.

You do not need to use this function if your TV is connected to a cable box or satellite box.

## Scanning for available channels

- This function may not be supported depending on the model or geographical area.
- If the TV is connected to a cable box or satellite box, you do not need to do this.
- The DVB-T2 system may not be supported depending on the geographical area.
- The Auto Tuning Settings may not appear depending on the model or geographical area.

### Selecting the cable network search option

♠ > ☼ Settings > Broadcasting > (Auto Tuning Settings) > Cable Search Option

Sets additional search options such as the frequency and symbol rate for a cable network search.

- This function may not be supported depending on the model or geographical area.
- The Auto Tuning Settings may not appear depending on the model or geographical area.

### Scanning for available channels on standby mode

♠ > ☼ Settings > Broadcasting > (Auto Tuning Settings) > Standby Auto Tuning

Automatically scan for channels while your TV is in standby mode.

- This function may not be supported depending on the model or geographical area.
- The Auto Tuning Settings may not appear depending on the model or geographical area.

#### Setting the Wake-up time



Schedule timer to turn the TV on and scan channels automatically.

- This function may not be supported depending on the model or geographical area.
- The Auto Tuning Settings may not appear depending on the model or geographical area.

### Checking digital channel signal info and strength



- If your TV is attached to a separate, over-the-air antenna, you can use the signal strength information to adjust the antenna for increased signal strength and improved HD channel reception.
- Signal Information is only available for digital channels.
- This function may not be supported depending on the model or geographical area.

## Restricting Viewing to Specific Channels



By selecting the menu, you can turn on or off the Apply Channel Lock function.

### Using Mark Adult Channels



Enables or disables all adult services. When disabled, adult services will not be available.

This function may not be supported depending on the model or geographical area.

### Selecting the broadcasting audio option



Set audio options for stereo or bilingual broadcasts. For more information, refer to "Supported broadcasting audio options".

This function may not be supported depending on the model or geographical area.

### Using Programme Rating Lock

- This function may not be supported depending on the model or geographical area.

This function is useful for controlling what children watch on TV. Programme Rating Lock Settings does not, however, block programmes originating from external sources, such as Blu-ray players, DVD players, or USB files.

Every time you access Programme Rating Lock Settings, you must enter the security PIN. You must also enter this PIN to watch a blocked programme. The default PIN is "0000" (for France and Italy: "1111"). To change the PIN, go to

- 🝙 > 🕸 Settings > General > System Manager > Change PIN.
- For more information about how to set your password, refer to "Setting up a password".
- The **Broadcasting** is not available in HDMI or Component mode.
- Programme Rating Lock may not be supported depending on your input signal.

### Configuring advanced broadcasting settings

> Settings > Broadcasting > Expert Settings (ry Now)

### Reading digital text

You can use this function when you watch a broadcast that includes both text and multimedia content.

- This function is only available in UK.
- Multimedia and Hypermedia Information Coding Experts Group (MHEG) is an International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including Video-On-Demand (VOD), Interactive TV (ITV), Electronic Commerce (EC), tele education, teleconferencing, digital libraries and network games.

### Selecting the broadcast audio language

This is the language you will hear while watching TV if the language is included in the broadcast signal. Audio Options functions differently for analogue and digital channels.

This function may not be supported depending on the model or geographical area.

#### Selecting a Language

You can change the audio language you want to hear.

The available language may differ with the broadcast.

#### Selecting a Audio Format

You can change the audio format you want to hear.

- The supported audio format may differ with the broadcast programme.
- This option is only available on digital channels.

## Tuning broadcast signals manually

You can scan for all the channels manually and store the scanned channels in the TV. To stop scanning, select Stop.

This function may not be supported depending on the model or geographical area.

### Tuning digital channels

💧 > 🕸 Settings > Broadcasting > Expert Settings > Manual Tuning > Digital Channel Tuning

Select New > Search to scan for digital channels automatically and store the scanned channel list in the TV.

#### Tuning analogue channels

♠ > お Settings > Broadcasting > Expert Settings > Manual Tuning > Analogue Channel Tuning

Select New and configure Programme, Colour System, Sound System, Channel, and Search to scan for analogue channels. Then, select Store to store the scanned channels in the TV.

This function is only available for analogue broadcasts.

## Fine-tuning analogue broadcasts

- > Settings > Broadcasting > Expert Settings > Fine Tune (ry Now)
- This function is only available for analogue broadcasts.

## Transferring channel list

You can import or export the channel list to a USB storage. To use this function, the PIN number is required.

- Import from USB: Imports channel list from a USB storage.
- Export to USB: Exports channel list saved in the TV to a USB storage.
- This function is available when USB is connected.
- This function may not be supported depending on the model or geographical area.

## **Enabling/Disabling Edit Channel Numbers**

♠ > ♦ Settings > Broadcasting > Expert Settings > Edit Channel Numbers

Use this to change channel number. When channel number is changed, channel information is not updated automatically.

This function may not be supported depending on the model or geographical area.

## Deleting CAM operator profile

- This function may not be supported depending on the model or geographical area.

### Setting satellite system



You can configure a set of satellite dish settings before performing a channel scan.



This function may not be supported depending on the model or geographical area.

### Changing teletext language



You can set or change the teletext language. To watch the teletext broadcast in your preferred language, select a language to use in Primary Teletext Language. If this language is not supported, you can watch the teletext broadcast in your secondary preferred language set in Secondary Teletext Language.



This function may not be supported depending on the model or geographical area.

## Showing TVkey Interface menu



Show TVkey Interface menu information.

- TVkey Menu: Show TVkey Interface menu.
- Guide: Select the guide you want to use when watching with TVkey.
- **Delete TVkey Operator Profile:** Show the TVkey operator list to delete.
- This function may not be supported depending on the model or geographical area.

### Showing common interface menu

### ♠ > ♦ Settings > Broadcasting > Common Interface

You can view information about common interfaces.

#### CI Menu

Enables the user to select from the CAM-provided menu. Select the CI menu based on the menu PC Card.

#### Application Info

Displays information about the CAM inserted into the CI slot and about the "CI or CI+ CARD" inserted into the CAM. You can install the CAM any time, with or without the TV turned on.

#### CICAM PIN Manager

Manages Common Interface Common Access Module (CICAM) PIN. Save PIN or change stored PIN and then set other PIN options.

This function may not be supported depending on the model or geographical area.

#### Descramble Mode

#### CAM video transcoding

Configures the setting to transcode the video codec from the CAM automatically. Turn it Off if you do not want to use it.



You must use a CAM that supports video codec transcoding.

# Picture and Sound

You can change the settings for the picture and the sound according to your preference.

## Adjusting the Picture Quality

Change the Picture Mode and adjust Expert Settings.

## Choosing a picture mode



> Settings > Picture > Picture Mode (ry Now)

You can select the Picture Mode that provides the best viewing experience.

Dynamic

Makes the picture brighter and clearer in bright viewing environments.

Standard

Is the default mode suitable for general viewing environments.

Natural

Reduces eye strain for a comfortable viewing experience.

Movie

Is suitable for watching TV or movies in a dark room.

This function may not be supported depending on the model.

### Configuring advanced picture settings



Configure the screen settings to your taste by using the following functions:

- Backlight (ry Now)
- Brightness (Try Now)
- Contrast Try Now
- Sharpness (ry Now)
- Colour (Try Now)
- Tint (G/R) (Try Now)
- Apply Picture Settings (ry Now)
- Digital Clean View (Try Now)
- Auto Motion Plus Settings Try Now
  - When LED Clear Motion is set to On, the screen appears darker than when it is Off.
- Local Dimming
  - Controls the brightness of individual areas on the screen to maximise contrast automatically.
  - This function may not be supported depending on the model or geographical area.
- Contrast Enhancer (Try Now)
- HDR+ Mode

Automatically provide an optimal HDR effect based on the video source.

The HDR (High Dynamic Range) technology implements video images that are very similar to the images seen through human eyes by finely adjusting the contrast of the source.

This function may not be supported depending on the model or geographical area.

- Film Mode (ry Now)
  - This function is only available when the input signal is TV, AV, Component (480i, 576i, 1080i), or HDMI (1080i).
- Colour Tone (ry Now)
- White Balance Try Now
- Gamma (Try Now)
- RGB Only Mode (ry Now)
- Colour Space Settings (ry Now)
- Reset Picture Try Now

## Setting the Viewing Environment for External Devices

You can optimise the TV for viewing specific video formats.

## Playing games on an optimised screen

You can enable the game mode to optimise the TV's settings for playing video games with a gaming console, such as a PlayStation $^{\text{TM}}$  or Xbox $^{\text{TM}}$ .

- The Game Mode Settings may not appear depending on the model or geographical area.
- The game mode is not available for normal TV viewing.
- The screen may shake somewhat.
- When Game Mode is enabled, Picture Mode and Sound Mode are switched to Game automatically.
- To use other external device on the same port, remove the game console connection, turn off the function, and then connect the external device to the port.

## Configuring game mode details

### Configuring Game Motion Plus

> Settings > General > External Device Manager > Game Mode Settings > Game Motion Plus Settings

You can configure the Game Motion Plus settings.

This function may not be supported depending on the model or geographical area.

### Setting the FreeSync function

You can play your gaming experience more pleasantly by eliminating screen tearing and stuttering.

- Be sure to set this function for only the external devices that support the FreeSync feature of AMD.
- For an optimised game environment, set the resolution of the external device to 1080p at 120 Hz. For more information, refer to "Supported Resolutions for FreeSync".
- If the resolution is not supported, the operation may not be smooth.
- When the FreeSync options are set or the FreeSync function is operated for an external device, the screen may flicker.
- 🙋 Slight brightness changes may occur during FreeSync operation due to frequency variation of the external device.
- Before playing a game, set FreeSync to On.
- This function may not be supported depending on the model or geographical area.

### Viewing UHD videos



If an external UHD player is connected to the TV, use the HDMI UHD Color function to convert the TV's HDMI connector to a mode optimised for the UHD 50P/60P signals.

- If you move to the HDMI connector with which you want to use the **HDMI UHD Color** function and press the Select button to set the function to **On**, the TV screen flickers.
- The HDMI connection with **HDMI UHD Color** set to **Off** supports up to UHD 50P/60P 4:2:0 input signals, while the HDMI connection with **HDMI UHD Color** set to **On** supports up to UHD 50P/60P 4:4:4 and 4:2:2 input signals. For more information, refer to "Supported Resolutions for UHD Input Signals".
- When you connect the TV to an external device that supports only the UHD 24 or 30 Hz frequency or any FHD frequency, the HDMI UHD Color function may not be available. In this case, set HDMI UHD Color to Off.

## Using HDMI black level

Use HDMI Black Level to adjust the black level to compensate for low black levels, low contrast, or dull colours generated by external devices connected to the TV via an HDMI cable.

This function is only available when the input signal, connected to the TV via an HDMI connector, is set to RGB444.

## **Picture Support Functions**

Configure the picture settings for your TV.

## Viewing a picture-in-picture (PIP)



While viewing video from an external device such as a Blu-ray player on the main screen, you can watch a TV broadcast in a picture-in-picture (PIP) window.

- This function may not be supported depending on the model or geographical area.
- PIP is not available while **Smart Hub** is active.
- Playing a game or using the karaoke function on the main screen can result in lower PIP picture quality.
- The PIP function is only available under the following conditions: 1) The main screen's source is a Component or HDMI connection. 2) The input resolution is less than FHD (Full HD).
- The PIP window supports digital channels only and does not support UHD channels.

### Changing the picture size

> Settings > Picture > Picture Size Settings > Picture Size (ry Now)

You can change the size of the picture displayed on the TV screen.

- 16:9 Standard
- Custom
- 4:3
- Supported picture sizes differ with the input signal. For more information about supported picture sizes, refer to "Picture sizes and input signals".

### Changing the picture size automatically

- > Settings > Picture > Picture Size Settings > Auto Wide (ry Now
- This function may not be supported depending on the model or geographical area.

## Changing the picture size in 4:3 or Screen Fit mode

> Settings > Picture > Picture Size Settings > 4:3 Screen Size (ry Now)

You can select a picture size suitable for your geographical area while you are watching TV in the 4:3 or Fit to screen mode. The supported screen sizes differ with the country and this function allows you to adjust the picture size in this case.

- The **4:3** mode is not available when an external device is connected to the TV via a Component connector or an HDMI connector.
- This function may not be supported depending on the model or geographical area.

### Fitting the picture to the screen

- This function may not be supported depending on the **Picture Size** setting.
- This function may not be supported depending on broadcasting signals.

## Adjusting the picture size and/or position

- > Settings > Picture > Picture Size Settings > Zoom and Position (ry Now)
- This function is available only if **Picture Size** is set to **Custom**.
- To change the picture position on analogue channels, first enlarge the picture and then change the position.

## Configuring a Sound Mode and Expert Settings

Change the Sound Mode and adjust Expert Settings.

## Choosing a sound mode



You can select a favourite sound mode suitable for the content type or the listening environment.

- Standard
- Optimised
- Amplify
- This function may not be supported depending on the model.
- When an external device is connected, **Sound Mode** may change accordingly.

## Configuring advanced sound settings

You can personalise the sound quality by adjusting the following settings.

- Balance (ry Now)
- Equaliser (ry Now)
- HDMI Input Audio Format Try Now
- Digital Output Audio Format (ry Now)
  - If you use a receiver that does not support Dolby Digital Plus, you will hear no sound if you select Dolby Digital+.
  - The Dolby Digital+ option is only available via ARC(HDMI) for external devices that support the format.
- Audio Delay (ry Now)
- Auto Volume
- Sound Feedback (ry Now
- Reset Sound (ry Now)
  - Standard audio signals are sampled at 48 kHz while HD audio signals are sampled at 96 kHz.
  - Some S/PDIF receivers may not be compatible with HD audio format.

## **Using the Sound Support Functions**

Configure the sound settings for your TV.

## Selecting speakers



You can select which speakers the TV uses for audio output.

External speakers may not be controlled with the Samsung Smart Remote. When an external speaker is enabled, some sound menus are not supported.

## Listening to the TV through Bluetooth devices



You can connect Bluetooth audio devices to the TV. They must be paired using the TV's Bluetooth function. For more information on pairing, refer to the Bluetooth audio device's operating manual.

- This function may not be supported depending on the model or geographical area.
- If the TV fails to find a Bluetooth audio device, place the device closer to the TV, and then select Refresh.
- When you turn on a paired Bluetooth audio device, the TV detects it automatically, and then displays a pop-up window. Use this pop-up window to activate/deactivate the Bluetooth audio device.
- The sound quality may be affected by the condition of the Bluetooth connection.
- Before using a Bluetooth audio device, refer to "Read Before Using Bluetooth Devices".

## Listening to the TV through a Samsung audio device that supports the Wi-Fi function

For more information about how to connect and use a Samsung audio device that supports the Wi-Fi function, refer to its user manual.

This function may not be supported depending on the model or geographical area.

## Using Samsung audio devices that support the Wi-Fi function to create a surround sound configuration



If you've connected one or more Samsung wireless audio devices that support the Wi-Fi function to the TV, you can create an optimal sound set up by configuring the surround effect settings. You can select any of the surround sound configurations, with or without a sound bar.

A surround sound configuration can be used if all of the following conditions are met:

- Two or more Samsung wireless speakers of the same type must be connected to the same wireless network.
- The Samsung audio devices that supports the Wi-Fi function, must be connected to the same wireless network as the TV.
- The surround sound configurations with a sound bar may not be supported depending on the product.
- If you activate the Screen Mirroring function while using the Samsung audio devices that supports the Wi-Fi function, the connection is disconnected.
- Lip syncs with mismatched video and audio time codes may occur depending on the device type.

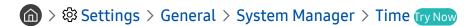
# System and Support

You can configure system and support settings such as clock, timers, energy usage and software updates.

# Using the Time Functions and the Timers

Set the current time and use the timer function.

# Setting the current time



You can set the **Clock** manually or automatically. Once the **Clock** is set, you can view the current time on the TV anytime.

You must set the clock in the following cases:

- The power cable is disconnected and then connected.
- The Clock Mode is changed from Auto to Manual.
- The TV is not connected to the Internet.
- No broadcast signals are received.

#### Setting the clock automatically

- This function works only when the TV is connected to the Internet or is receiving digital broadcasts through an antenna connected.
- The accuracy of the time information received may differ with the channel and signal.
- When watching TV by connecting a cable box or satellite box to the HDMI or Component port, you must set the current time manually.

#### Setting the clock manually

When Clock Mode is set to Manual, you can directly enter the current time. Select the Date and Time by using the arrow buttons on the remote control.

#### Adjusting the clock for DST and time zone

Sets the right time by setting Daylight Savings Time (DST) and your local time zone.

- This function is only available when the **Clock Mode** is set to **Auto**.
  - GMT

Selects your time zone.

DST

Automatically adjust for Daylight Saving Time (DST).

This function is only available when the **Clock Mode** is set to **Auto**.

#### Changing the current time



⋒ > 🕸 Settings > General > System Manager > Time > Clock > Time Offset

- Time Offset adjusts the time through a network connection. This function is only available if Clock Mode is set to Auto and the TV is connected to the Internet though a local area network.
- Time Offset adjusts the time if the TV fails to receive time information through normal digital broadcast signals.

### Using the timers

### Using the sleep timer



You can use this function to automatically shut off the TV after a pre-set period of time. You can set the sleep timer to up to 180 minutes to automatically turn off the TV.

#### Turning off the TV using the off timer



You can set Off Timer to shut off the TV automatically at a specific time. Off Timer is only available if the Clock has been set.

# Using the Auto Protection Time and Energy Saving Functions

Setting the Auto Protection Time and reduce the TV's energy consumption.

# Setting the Auto Protection Time

Activate a screensaver when your TV displays a still image for two hours or more.

### Reducing the energy consumption of the TV

You can adjust the brightness level of the TV, reduce overall power consumption, and prevent overheating.

• Ambient Light Detection (ry Now

Automatically adjusts the brightness level of the TV, according to the ambient light level, to reduce power consumption. If the Ambient Light Detection has adjusted the screen brightness to a too bright or dark level, you can select Minimum Backlight to manually adjust the minimum screen brightness.

Minimum Backlight (ry Now)

When the Ambient Light Detection is turned on, you can manually adjust the minimum brightness of the TV screen to consider the brightness level of the surroundings. This function acts only when the value is less than the setting in > Settings > Picture > Expert Settings > Backlight.

Energy Saving Mode (ry Now)

Allows you to select a brightness setting from the list to reduce the TV's power consumption.

Motion Lighting (ry Now)

Adjusts the brightness in response to on-screen movements to reduce power consumption.

Auto Power Off Try Now

Automatically turns off the TV to reduce unnecessary power consumption if there is no operation for 4 hours.

# Updating the TV's Software

View your TV's software version and update it if necessary.



### Updating the TV's software to the latest version

DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. Video and audio settings will be reset to their defaults after a software update.

#### Updating through the Internet





Updating from the Internet requires an active Internet connection.

#### Updating through a USB device



After downloading the update file from the Samsung website and storing it on a USB device, connect the USB device to the TV to update.



To update using a USB flash drive, download the update package from Samsung.com to your computer. Then, save the update package in the USB device's top-level folder. Otherwise, the TV will not be able to locate the update package.

## Updating the TV automatically



If the TV is connected to the Internet, you can have the TV update its software automatically while you are watching the TV. When the background update is completed, it is applied the next time the TV is turned on.

If you agree to the Smart Hub terms and conditions, Auto update is set to On automatically. If you want this function disabled, use the Select button to turn it off.

This function may take a longer time if another network function is running concurrently.

This function requires an Internet connection.

# Protecting the TV from Hacking and Malicious Code

Protect your TV from hacking attempts and malicious code.

You can use Smart Security to protect the TV from hacking and malicious code when it is connected to the Internet.

### Scanning the TV and connected storage for malicious code

If malicious code is found, the results of the scan will appear on the screen. This result window displays all malicious code found. You can quarantine (isolate) the code. Quarantining prevents it from executing.

- 1. Select all the malicious code to quarantine.
- 2. Select Isolate.

The selected malicious code is relocated to the Isolated List.

The Isolated List displays all quarantined malicious codes.

# **Using Other Functions**

View other functions.

# Running the accessibility functions

# **Running Accessibility Shortcuts**

The Accessibility Shortcuts provide access to the accessibility functions. To display the Accessibility Shortcuts, press and hold the Volume button for 1 second or more. You can easily turn on or turn off the functions such as Voice Guide, Audio Description, High Contrast, Greyscale, Colour Inversion, Enlarge, Learn TV Remote, Menu Learning Screen, Subtitle, Multi-output Audio, etc.

- On the standard remote control, press the AD/SUBT. button.
- Even if the Voice Guide is set to Off or muted, the voice guide for Accessibility Shortcuts is enabled.
- The menus may not appear depending on the model or geographical area.

### Enabling voice guides for the visually impaired



You can activate voice guides that describe the menu options aloud to aid the visually impaired. To activate this function, set Voice Guide to On. With Voice Guide on, the TV provides voice guides for channel change, volume adjust, information on current and upcoming programmes, schedule viewing, other TV functions, various content in the Internet, and in Search.

You can go to Voice Guide and press the Select button to turn the function on or off.

- The Voice Guide is provided in the language that is specified on the Language screen. However, some languages are not supported by Voice Guide even though they are listed in the Language screen. English is always supported.
- For more information about the TV language settings, refer to "Changing the menu language".

#### Changing the volume, speed, and pitch of the Voice Guide

You can configure the volume, speed, and pitch of the voice guide.

### **Audio Description**



You can use the Audio Stream for the Audio Description (AD) which is sent along with the Main audio from the broadcaster. Adjust the audio description volume using Audio Description Volume.

- This function is only available on digital channels.
  - **Audio Description**

Turns the audio description function on or off.

**Audio Description Volume** 

Adjusts the audio description volume.

### White text on black background (high contrast)



You can change Smart Hub and setting menu screens to white text on a black background or change the transparent TV menus to opaque so that text can be more easily read. To activate this function, set **High Contrast** to **On**.

If **High Contrast** is on, some **Accessibility** menus are not available.

### Setting the screen to a black and white tone

You can change the colour of the TV screen to a black and white tone to sharpen blurred edges caused by colours.

- If Greyscale is on, some Accessibility menus are not available.
- This function may not be supported depending on the model or geographical area.

## Inverting the screen colour

You can invert the colours of the text and background displayed on the TV screen to make it easier to read them.

- If Colour Inversion is on, some Accessibility menus are not available.
- This function may not be supported depending on the model or geographical area.

# Enlarging the font (for the visually impaired)

> Settings > General > Accessibility > Enlarge (ry Now)

You can enlarge the size of the font on the screen. To activate this function, set **Enlarge** to **On**.

### Learning about the remote control (for the visually impaired)



This function helps individuals with a visual impairment to learn the positions of the buttons on the remote control. When this function is activated, you can press a button on the remote control and the TV will tell you its name. Press the button twice to exit Learn TV Remote.

This function is only available when **Voice Guide** is enabled.

### Learning about the TV menu

Learn the menus on the TV screen. Once enabled, your TV will tell you the structure and features of the menus you select.

This function is only available when **Voice Guide** is enabled.

## Watching TV broadcasts with subtitles

Set Subtitle to On. Then you can watch the programme with the subtitle displayed.

- This function may not be supported depending on the model or geographical area.
- The TV cannot control or modify DVD or Blu-ray subtitles. To control DVD or Blu-ray subtitles, use the sub-title feature of the DVD or Blu-ray player and the player's remote control.
- Subtitle

Turns on or off the subtitle.

• Subtitle Mode

Sets the subtitle mode.

Subtitle Language

Sets the subtitle language.

The TV cannot control or modify DVD or Blu-ray subtitles. To control DVD or Blu-ray subtitles, use the subtitle feature of the DVD or Blu-ray player and the player's remote control.

#### Selecting the broadcasting subtitle language

You can select the default subtitle language. The list of modes may vary depending on the broadcast.

• Primary Subtitle Language

Sets the primary subtitle language.

• Secondary Subtitle Language

Sets the secondary subtitle language.

### Listening to the TV through Bluetooth devices (for the hearing impaired)

♠ > ♦ Settings > General > Accessibility > Multi-output Audio

You can turn on both the TV speaker and Bluetooth devices at the same time. When this function is active, you can set the volume of the Bluetooth devices higher than the volume of the TV speaker.

- This function may not be supported depending on the model or geographical area.
- When you connect Bluetooth devices to the TV, Multi-output Audio is activated. For more information about connecting Bluetooth devices to the TV, refer to "Listening to the TV through Bluetooth devices".

### Configuring advanced system settings

#### Changing the menu language

#### Setting up a password



The PIN input window appears. Enter a PIN. Enter it again to confirm it. The default PIN is "0000" (for France and Italy: "1111").

If you forget your PIN, you can reset it with your remote control. With the TV turned on, press the following buttons on the remote control in the order shown to reset the PIN to "0000" (for France and Italy: "1111").

On the Samsung Smart Remote: Select VOL button. > Volume Up > > Volume Down > > Volume Up >





On the standard remote control: Select ♂ button. > (♣) (Volume Up) > Select RETURN button. > (♣) (Volume Down) > Select **RETURN** button. > (+) (Volume Up) > Select **RETURN** button.

### Selecting Usage or Retail Mode



⋒ > 🕸 Settings > General > System Manager > Usage Mode (ry Now)

You can using the TV for retail environments by setting Usage Mode to Retail Mode.

- For all other uses, select Home Mode.
- With Retail Mode, some functions are disabled, and the TV automatically resets itself after a preset amount of time.

# Restoring the TV to the factory settings



You can restore all TV settings (excluding the Internet and network settings) to the factory defaults.

- 1. Select Reset. The security PIN entry window appears.
- 2. Enter the security PIN, and then select Yes. All settings are then reset. The TV turns off and on again automatically and displays the **Start Setup** screen.
- For more information on **Start Setup**, refer to the user manual that came with the TV.

### **HbbTV**

#### Access services from entertainment providers, online providers and CE manufactures through HbbTV.

- This function may not be supported depending on the model or geographical area.
- Some channels may not include the HbbTV service.

In some countries, HbbTV is disabled by default. In this case, HbbTV can be used by installing the HbbTV application (the HbbTV Installer Application) from Samsung APPS.

To set the HbbTV automatic start to on or off, access > Settings > Broadcasting > Expert Settings > HbbTV Settings and set HbbTV to on or off. (Depending on the geographical area.)

If you want this function enabled or disabled, use the Select button to turn it on or off.

- HbbTV is not available when Timeshift is running or when a recorded video is being played back.
- An application on HbbTV may malfunction temporarily depending on the circumstances of the broadcast station or application provider.
- An application on HbbTV usually operates only when the TV is connected to an external network. The application may malfunction depending on the network conditions.
- When the HbbTV application is installed and the broadcasting programme supports HbbTV, a red button appears on the screen.
- It is possible to use both Digital Teletext and Traditional Teletext in several limited channels by pressing the TTX/MIX button on the remote control in a toggling manner.
  - With the Samsung Smart Remote, long press the 123 or 123 button for over 1 second or press the 123 or 123 button and then select TTX/MIX on the pop-up list.
- When you press the TTX/MIX button once in HbbTV mode, digital TTX mode of HbbTV is activated.
- When you press the TTX/MIX button twice in HbbTV mode, Traditional Teletext mode is activated.

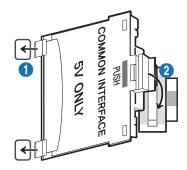
# Using a TV Viewing Card ("CI or CI+ Card")

Watches paid channels by inserting your TV viewing card into the COMMON INTERFACE slot.

- The 2 CI card slots may not be supported depending on the model.
- Turn the TV off to connect or disconnect a "CI or CI+ Card".
- The TV Viewing Card ("CI or CI+ Card") may not supported depending on the model.

# Connecting the "CI or CI+ Card" via COMMON INTERFACE slot with the CI CARD Adapter

#### Attaching the CI CARD Adapter via COMMON INTERFACE slot



To attach the CI CARD Adapter to the TV, follow these steps:

- 1 Insert the CI CARD Adapter into the two holes on the back of TV.
  - Please locate the two holes at the back of the TV next to the COMMON INTERFACE slot.
- Connect the CI CARD Adapter to the COMMON INTERFACE slot on the back of TV.

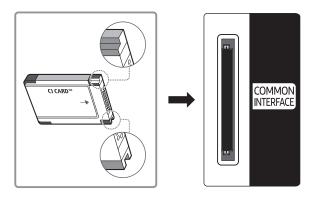
### Connecting the "CI or CI+ Card"

Connect the "CI or CI+ Card" to the COMMON INTERFACE slot as shown in the image below.



### Connecting the "CI or CI+ Card" via COMMON INTERFACE slot

Connect the "CI or CI+ Card" to the COMMON INTERFACE slot as shown in the image below.



## Using the "CI or CI+ Card"

To watch paid channels, the "CI or CI+ CARD" must be inserted.

- Samsung TV follow up CI+ 1.4 standard. When TV product display the pop-up message, it may happen due to CI+ 1.4 Version inconsistency. If you have a problem, please contact Samsung Call Centre.
  - Your Samsung TV conforms to the CI+ 1.4 standards.
  - Where a CI+ Common Interface module is incompatible with this device then please remove the module and contact the CI+ operator for assistance.
- If you don't insert the "CI or CI+ CARD", some channels will display the pop-up message.
- The pairing information containing a telephone number, the "CI or CI+ CARD" ID, the Host ID, and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
- When the configuration of channel information has finished, the message "Updating Completed" is displayed, indicating the channel list is updated.
- You must obtain a "CI or CI+ CARD" from a local cable service provider.
- When removing the "CI or CI+ CARD", carefully pull it out with your hands since dropping the "CI or CI+ CARD" may cause damage to it.
- Insert the "CI or CI+ CARD" in the direction marked on the card.
- The location of the COMMON INTERFACE slot may be different depending on the model.
- "CI or CI+ CARD" is not supported in some countries and regions; check with your authorised dealer.
- If you have any problems, please contact a service provider.
- Insert the "CI or CI+ CARD" that supports the current aerial settings. If not, the screen may not look normal.

### Teletext Feature

#### Learn how to use Teletext and run the functions provided by Teletext Service.

- This function is available only in the channel that supports the teletext service.
- This function may not be supported depending on the model or geographical area.
- To enter the Teletext feature,
  On the Samsung Smart Remote: Press the 123 or 123 button and then select TTX/MIX on the pop-up list.

On the standard remote control: Press the **TTX/MIX** button.

To exit from the Teletext feature,
On the Samsung Smart Remote: Press the TTX/MIX button on the pop-up list until a live TV programme appears.

On the standard remote control: Press the TTX/MIX button on the remote control until live TV appears.

The index page of the Teletext service gives you information on how to use the Service. For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

You can change Teletext pages by select numeric using your remote control.

### On the Samsung Smart Remote

TTX/MIX (Full TTX / Double TTX / Mix / Live TV): The teletext mode is activated in the channel that is being watched. Each time you press the TTX/MIX button, the teletext mode changes in the order of Full TTX  $\rightarrow$  Double TTX  $\rightarrow$  Mix  $\rightarrow$  Live TV.

- Full TTX: The teletext mode appears on the full screen.
- **Double TTX**: The teletext mode appears on the half screen along with the currently viewed channel on the other half.
- Mix: The teletext mode appears transparently on the currently viewed channel.
- Live TV: It returns to the live TV screen.

Colour buttons (red, green, yellow, blue): If the FASTEXT system is used by the broadcasting company, the different topics on a Teletext page are colour-coded and can be selected by coloured buttons. Press the colour corresponding to the topic of your choice. A new colour coded page appears. Items can be selected in the same way. To display the previous or next page, select corresponding coloured button.

- [i] Index: Displays the index (contents) page at any time while you are viewing Teletext.
- **Sub Page**: Displays the available sub-page.
- List/Flof: Selects the Teletext mode. If pressed during LIST mode, switches the mode to List save mode. In List save mode, you can save a Teletext page into a list using the (Store) button.
- **Store**: Stores the Teletext pages.
- Page Up: Displays the next Teletext page.
- Page Down: Displays the previous Teletext page.
- Reveal/Conceal: Displays or hides the hidden text (answers to quiz games, for example). To display the normal screen, press it again.
- Size: Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of the screen, press it again. For normal display, press it once again.
- Hold: Holds the display at the current page, in the case that there are several secondary pages that follow automatically. To undo, press it again.
- Cancel: Shrinks the Teletext display to overlap with the current broadcast.

#### On the standard remote control

On the standard remote control, the Teletext function icons are printed on some remote control buttons. To run a Teletext function, find its icon printed on a remote control button, and then press the found button.

#### **TTX/MIX**

Full TTX / Double TTX / Mix / Live TV: The teletext mode is activated in the channel that is being watched. Each time you press the  $\bigcirc$  button, the teletext mode changes in the order of Full TTX  $\rightarrow$  Double TTX  $\rightarrow$  Mix  $\rightarrow$  Live TV.

- Full TTX: The teletext mode appears on the full screen.
- **Double TTX**: The teletext mode appears on the half screen along with the currently viewed channel on the other half.
- Mix: The teletext mode appears transparently on the currently viewed channel.
- Live TV: It returns to the live TV screen.

Colour buttons (red, green, yellow, blue): If the FASTEXT system is used by the broadcasting company, the different topics on a Teletext page are colour-coded and can be selected by coloured buttons. Press the colour corresponding to the topic of your choice. A new colour coded page appears. Items can be selected in the same way. To display the previous or next page, select corresponding coloured button.

#### **SETTINGS**

Index: Displays the index (contents) page at any time while you are viewing Teletext.

#### PRE-CH

Sub Page: Displays the available sub-page.

#### **SOURCE**

List/Flof: Selects the Teletext mode. If pressed during LIST mode, switches the mode to List save mode. In List save mode, you can save a Teletext page into a list using the (Store) button.

#### **(≡◊)** CH LIST

Store: Stores the Teletext pages.

#### (<u>■1</u>) CH ∧

Page Up: Displays the next Teletext page.

#### (1-≡) CH ∨

Page Down: Displays the previous Teletext page.

#### **■? INFO**

**Reveal/Conceal**: Displays or hides the hidden text (answers to quiz games, for example). To display the normal screen, press it again.

#### **≡ •** E-MANUAL / REC



Depending on the model or geographical area.

**Size**: Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of the screen, press it again. For normal display, press it once again.

#### **■** RETURN

**Hold**: Holds the display at the current page, in the case that there are several secondary pages that follow automatically. To undo, press it again.

#### **EX** EXIT

Cancel: Shrinks the Teletext display to overlap with the current broadcast.

### Typical Teletext page



Part	Contents
А	Selected page number.
В	Broadcasting channel identity.
С	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

# Troubleshooting

If you have a problem with your TV, you can access various solutions while watching TV. If your problem is not addressed in the Troubleshooting section, contact the Samsung Call Centre.

# **Getting Support**

Get help directly from Samsung if you have a problem with your TV.

### Getting support through Remote Management



After consenting to our service agreement, you can use **Remote Management** to access Remote Support and have a Samsung service technician diagnose your TV, correct problems, and update your TV's software remotely via the web. You can also turn **Remote Management** on and off.

- This function requires an Internet connection.
- Vou can also start Remote Management function by pressing and holding the button for 5 or more seconds.

#### What is Remote Support?

Samsung Remote Support service offers you one-on-one support with a Samsung Technician who can remotely:

- Diagnose your TV
- Adjust the TV settings for you
- Perform a factory reset on your TV
- Install recommended firmware updates

#### How does Remote Support Work?

You can easily get Samsung Remote Support service for your TV:

- 1. Call the Samsung Contact Centre and ask for remote support.
- 2. Open the menu on your TV and go to the Support section. ( Sections > Support)
- 3. Select Remote Management, then read and agree to the service agreements. When the PIN screen appears, provide the PIN number to the technician.
- 4. The technician will then access your TV.

# Finding the contact information for service



You can view the address of the Samsung website, the call centre phone number, your TV's model number, your TV's software version, Open Source Licence and other information you may need to get service support from a Samsung call agent or the Samsung website.

- You can also view information by scanning the QR code of your TV.
- You can also start this function by pressing and holding the button for 5 or more seconds. For standard remote control, press and hold the (Play) button for 5 or more seconds. Continue holding the button until the customer information pop-up window appears.

### Requesting service



You can request service when you encounter a problem with the TV. Select the item matching the problem that you encountered, and then select Request Now or Schedule Appointment > Send. Your service request will be registered. The Samsung Contact Centre will contact you to set up or confirm your service appointment.

- You must agree to the terms and conditions for the service request.
- This function may not be supported depending on the geographical area.
- This function requires an Internet connection.

# Diagnosing TV operational issues

You can diagnose issues with your TV and Smart Hub and run reset functions.



You can use the Picture Test to help diagnose video issues and the Sound Test to diagnose sound issues. You can also view signal strength information for over-the-air digital signals, test the Smart Hub Internet connection, and run the Smart Hub and TV factory reset functions.

- **Start Picture Test**
- **Start Sound Test**
- **Signal Information**
- Start Smart Hub Connection Test
- Reset Smart Hub
- Reset

# There Is a Problem with the Picture

When the TV has trouble with the picture, these steps may help resolve the problem.

# Testing the picture



> Settings > Support > Self Diagnosis > Start Picture Test (ry Now)

Before you review the list of problems and solutions below, use **Start Picture Test** to determine if the problem is caused by the TV. **Start Picture Test** displays a high definition picture you can examine for flaws or faults.

The problem	Try this!
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of the energy efficiency features.  Disable Ambient Light Detection, Energy Saving Mode, or Motion Lighting.  • (a) > (a) Settings > General > Eco Solution > Ambient Light Detection  • (a) > (a) Settings > General > Eco Solution > Energy Saving Mode  • (a) > (b) Settings > General > Eco Solution > Motion Lighting
Component Connections/ Screen Colour	If the colour on your TV screen is not correct or the black and white colours are off, run Start Picture Test.  •
Screen Brightness	If the colours on your Samsung TV are correct but just a little too dark or bright, try adjusting the following settings first.  • ① > ② Settings > Picture > Expert Settings > Backlight  • ② Settings > Picture > Expert Settings > Contrast  • ② Settings > Picture > Expert Settings > Brightness  • ② Settings > Picture > Expert Settings > Sharpness  • ② Settings > Picture > Expert Settings > Colour  • ② Settings > Picture > Expert Settings > Colour  • ② Settings > Picture > Expert Settings > Tint (G/R)

The problem	Try this!
Blurring, or Juddering	If you notice blurring on the screen, use the Auto Motion Plus Settings function to resolve the issue.  • 🝙 > 🚱 Settings > Picture > Expert Settings > Auto Motion Plus Settings
	The second of th
	If your TV appears to turn off by itself, try disabling some of the TV's energy efficiency functions.
	See if <b>Sleep Timer</b> has been enabled. The <b>Sleep Timer</b> automatically turns the TV off after a specified period of time.
Unwanted Powering Off	• 🍙 > 👸 Settings > General > System Manager > Time > Sleep Timer
	If the Sleep Timer has not been enabled, see if Auto Power Off or Off Timer has been enabled and disable it.
	• 🔞 > 🕃 Settings > General > Eco Solution > Auto Power Off
	If you are having problems powering on your TV, there are a number of things to check before calling the service department.
Problems Powering On	Confirm that the TV's power cord is connected correctly at both ends and that the remote control is operating normally.
	Make sure that the antenna cable or cable TV cable is firmly connected.
	If you have a cable box or satellite box, confirm that it is plugged in and turned on.
	If your TV is not connected to a cable box or satellite box, run Auto Tuning.
Unable to find a Channel	• 🍙 > 👸 Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning
	The Auto Tuning Settings may not appear depending on the model or geographical area.
	Store displays are tuned to a digital HD channel.
	If you have an analogue cable box or satellite box, upgrade to a digital cable box or satellite box. Use HDMI or Component cables to deliver HD (high definition) picture quality.
	Many HD channels are upscaled from SD (Standard Definition) content. Look for a channel that is broadcasting HD content.
The TV image does not look	Cable/Satellite Subscribers: Try HD channels from the channel lineup.
as good as it did in the store.	<ul> <li>Terrestrial/Cable Antenna Connection: Try HD channels after running the Auto Tuning function.</li> </ul>
	• 🍙 > 👸 Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning
	The Auto Tuning Settings may not appear depending on the model or geographical area.
	Adjust the cable box or satellite box's video output resolution to 1080i or 720p.

The problem	Try this!
The picture is distorted.	The compression of video content may cause picture distortions, especially in fast moving pictures from sports programmes and action movies.  If the signal reception is weak or poor, screen distortion may be visible but it is not a malfunction.  Mobile phones used close to the TV (within 1 m) may cause noise on analogue and digital channels.
The colour is wrong or missing.	If you're using a Component connection, make sure that the Component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.
The colour is poor or the picture is not bright enough.	Go to Picture and then adjust the Picture Mode, Brightness, Sharpness, and Colour settings.  •
There is a dotted line on the edge of the screen.	Change Picture Size to 16:9 Standard.  • 🝙 > 👸 Settings > Picture > Picture Size Settings > Picture Size > 16:9 Standard
The picture is black and white.	If you are using AV or analogue equipment, disconnect the adapter from the Component (Blue) input port on the TV and connect it to the AV (Yellow) input port.

- If the test picture does not appear or there is noise or distortion, the TV may have a problem. Contact Samsung's Call Centre for assistance.
- If the test picture is displayed properly, there may be a problem with an external device. Please check the connections.
- If the problem persists, check the signal strength or refer to the external device's user manual.

# I Can't Hear the Sound Clearly

When the TV has difficulties with sound, these steps may help resolve the problem.

# Testing the sound



> Settings > Support > Self Diagnosis > Start Sound Test (ry Now)

If the TV plays the Start Sound Test melody without distortion, there may be a problem with an external device or the broadcast signal's strength.

The problem	Try this!
There is no sound or the sound is too low at maximum volume.	Check the volume control of the device (cable box or satellite box, DVD, Blu-ray, etc.) connected to your TV.
	Set Sound Output to TV Speaker.
	• 📵 > 段 Settings > Sound > Sound Output
The picture is good but there	If you are using an external device, check the device's audio output option. For example, you may need to change your cable box's audio option to HDMI if the box connected to your TV is using an HDMI cable.
is no sound.	To listen to computer sound, connect an external speaker to the computer's audio output connector.
	If your TV has a headphone jack, make sure there is nothing plugged into it.
	Reboot the connected device by disconnecting and then reconnecting the device's power cable.
No sound is heard.	Check whether the Digital Output Audio Format is set to Dolby Digital+. If you are using a receiver that does not support Dolby Digital Plus, you will hear no sound when you select Dolby Digital+.
	<ul> <li></li></ul>
	Run Start Sound Test.
	• 偷 > lostings > Support > Self Diagnosis > Start Sound Test
The speakers are making an odd sound.	Make sure that the audio cable is connected to the correct audio output connector on the external device.
	For antenna or cable connections, check the signal information. A low signal level may cause sound distortions.

# There Is a Problem with the Broadcast

When the TV has difficulties receiving broadcasts, these steps may help resolve the problem.

The problem	Try this!
"Weak or No Signal" displayed in TV mode/cannot find channel.	Select
The TV is not receiving all channels.	Confirm that the coaxial cable is securely connected to the TV.  Run Start Setup or Auto Tuning.  • 🝙 > 🐯 Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning  © The Auto Tuning Settings may not appear depending on the model or geographical area.
There are no subtitles with digital channels.	Go to Subtitle and change the Subtitle Mode.  • 🚳 > 🐯 Settings > General > Accessibility > Subtitle Settings > Subtitle > Subtitle Mode.  Some channels may not have subtitle data.
The picture is distorted.	The compression of the video content may cause picture distortions. This is especially true with fast moving pictures from sports programmes and action movies.  A weak signal can cause picture distortions. This is not a problem with the TV.
The picture quality is low.	Select high definition (HD) channels or programmes.

# My Computer Won't Connect

When the TV has difficulties connecting to a PC, these steps may help resolve the problem.

The problem	Try this!
The "Mode Not Supported" message appears.	Set your PC's output resolution so it matches a resolution supported by the TV.
The video is OK but there is no audio.	If you are using an HDMI connection, check the audio output setting on your PC.  If you are using an HDMI-to-DVI cable, a separate audio cable is required. Note that the HDMI-to-DVI connection is only supported by the HDMI (DVI) port and does not transmit audio. To listen to the computer sound, connect external speakers to the audio output connection of the computer.

# The TV Won't Connect to the Internet

When the TV has difficulties connecting to the Internet, these steps may help resolve the problem.

The problem	Try this!
The TV cannot connect to your network or apps (for Internet compatible models only).	Make sure the TV has a network connection.  ■ ♠ Settings > General > Network > Network Status  Contact your Internet service provider.
The wireless network connection failed.	Confirm your wireless modem/router is on and connected to the Internet.
The wireless network signal is too weak.	Position your wireless router, modem router, or access point in a central location. Avoid putting it in a corner.  Use a wireless repeater to get an instant boost in your wireless signal strength. Place the repeater halfway between your wireless router and your TV.

# The Schedule Recording/Timeshift Function Isn't Working

When Timeshift or Schedule recording aren't working, these steps may help resolve the problem.

The problem	Try this!
Schedule Recording cannot be used.	Check if there is a USB device connected to the TV.  Recording will automatically stop if the signal becomes too weak.  Check the free space on the USB device. The function will not work if there isn't enough storage space on the USB device.



This function may not be supported depending on the model or geographical area.

# Anynet+ (HDMI-CEC) Isn't Working

When Anynet+ (HDMI-CEC) isn't working, these steps may help resolve the problem.

The problem	Try this!
Anynet+ does not work.	Confirm that the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.  Check if the power cord of the Anynet+ device is properly connected.  Check the cable connections of the Anynet+ device.  Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been set to On.  • (a) > (3) Settings > General > External Device Manager > Anynet+ (HDMI-CEC)  Anynet+ may not function when some other functions are active, including Channel Search, Smart Hub, Initial Setup, etc.  If you have disconnected and then reconnected the HDMI cable, scan for devices again or turn your TV off and on.
I want to start Anynet+.	Move the focus to the Anynet+ device at
I want to exit Anynet+.	Set Anynet+ (HDMI-CEC) to Off.  • 🝙 > 🐯 Settings > General > External Device Manager > Anynet+ (HDMI-CEC)

The problem	Try this!
The message "Connecting to Anynet+ device" or "Disconnecting from Anynet+ device" appears on the screen.	You cannot use the remote control when the TV is configuring Anynet+ or switching to a viewing mode. Use the remote control after the TV has completed the Anynet+ configuration or has switched to a viewing mode.
The Anynet+ device won't play.	You cannot use the play function when <b>Start Setup</b> is in progress.
The connected device is not displayed.	Check whether the device supports Anynet+.  Check whether the HDMI cable is properly connected.  Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been set to On.  •
The TV audio is not being played through the receiver.	Connect an optical cable to the TV and the receiver.  ARC enables the TV to output digital sound via the HDMI (ARC) port.  However, ARC is only available when the TV is connected to an audio receiver that supports ARC.

# I Have Trouble Launching/Using Apps

When apps aren't working, these steps may help resolve the problem.

The problem	Try this!
I launched an app, but it's in English. How can I change the language?	Languages supported by the app may be different from the user interface language. The ability to change the language depends on the service provider.
My application is not working.	Check with the service provider.  Refer to the Help section on the application service provider's website.

# My File Won't Play

When files aren't playing, this may help resolve the problem.

The problem	Try this!	
Some files can't be played.	This problem may occur with high-bitrate files. Most files can be played back, but you might experience problems with high-bitrate files.	

# I Want to Reset the TV

Initialise the settings to factory defaults.

Reset	Path	Description	
Reset Settings	<ul><li>⋒ &gt; Ø Settings &gt;</li><li>Support &gt; Self Diagnosis</li><li>&gt; Reset</li></ul>	Resets Picture, Sound, Broadcasting, and all other settings, except for the network settings, to the default settings.	
Reset Smart Hub	<ul><li>⋒ &gt; Ø Settings &gt;</li><li>Support &gt; Self Diagnosis</li><li>&gt; Reset Smart Hub</li></ul>	Resets all Smart Hub settings to their factory defaults and deletes all information related to Samsung accounts, linked service accounts, Smart Hub service agreements, and Smart Hub applications.	
Reset Picture	> Settings > Picture > Expert Settings > Reset Picture	Resets current picture settings.	
Reset Sound	♠ > ₭ Settings > Sound > Expert Settings > Reset Sound	Resets current sound settings.	

# Other Issues

Use these procedures to resolve other issues that may occur.

The problem	Try this!		
The TV is hot.	Watching TV for an extended period of time causes the panel to generate heat. The heat from the panel is dissipated through internal vents running along the top of the TV. The bottom, however, may feel hot to the touch after extended use. Children watching TV need constant adult supervision to prevent them from touching the TV. This heat, however, is not a defect and does not affect the TV's functionality.		
The picture won't display in full screen.	HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content.  Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV.  Adjust the picture size options on your external device or set the TV to full screen.  •    Settings > Picture > Picture Size Settings		
The "Mode Not Supported" message appears.	The output resolution of the attached device is not supported by the TV. Check the TV's supported resolutions and adjust the external device's output resolution accordingly.		
The Subtitles item in the TV is greyed out.	When an external device is connected with an HDMI or Component cable, the <b>Subtitle</b> function is unavailable. Adjust the subtitle setting on the external device.		
The TV smells of plastic.	This smell is normal and will dissipate over time.		
Signal Information under Self Diagnosis isn't activated.	Verify that the current channel is a digital channel.  Signal Information is only available for digital channels.  • ♠ > ♦ Settings > Support > Self Diagnosis > Signal Information		
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.		
The stand is wobbly or crooked.	Make sure the indicator arrows on the stand and stand holder are properly aligned.		
The remote control and/or voice control does not work.	The TV ships with protective stickers covering some of the sensors. Make sure all of the stickers have been removed.		

The problem	Try this!		
The Broadcasting function has been deactivated.	Broadcasting is only available when the Source is set to TV.  Broadcasting cannot be accessed while you watch TV using a cable box or satellite box.  Broadcasting cannot be accessed while a recording is in progress or the Timeshift function is running.		
PIP is not available.	PIP is available only when an external device is connected with an HDMI or Component cable. Note that the function is unavailable when the Smart Hub is active.		
The settings are lost after 5 minutes or every time the TV is turned off.	If Usage Mode is set to Retail Mode, the TV's audio and video settings are automatically reset every 5 minutes.  Change Usage Mode to Home Mode.  • 🔞 > 🐯 Settings > General > System Manager > Usage Mode		
A POP (TV's internal banner ad) appears on the screen.	Change Usage Mode to Home Mode.  • ♠ > ♦ Settings > General > System Manager > Usage Mode		
The TV is making a popping noise.	The expansion and contraction of the TV's outer casing may cause a popping noise. This does not indicate a product malfunction. The TV is safe to use.		
Your TV utilises high-speed switching circuits and high levels of electrical cur Depending on the TV's brightness level, the TV may seem slightly noisier than conventional TV. Your TV has undergone strict quality control procedures that meet our deman performance and reliability requirements. Some noise coming from the TV is considered normal and is not an acceptable exchange or refund.			
Check the network connection status.  • • • Settings > General > Network > Network Status  If the TV is not connected to a network, connect it to a network.  The upgrade stops if you already have the latest software version.			

# **Precautions and Notes**

You can get instructions and information that you must read after installation.

# Before Using the Recording and Timeshift Functions

Read these instructions before using Recording and Timeshift.

8

This function may not be supported depending on the model or geographical area.

### Before using the recording and schedule recording functions

- Recording may not be supported depending on the model or geographical area.
  - To set up a Schedule Recording, you must first set the TV's clock. Set the Clock.
    - ⋒ > ۞ Settings > General > System Manager > Time > Clock
  - You can set up a maximum total of 30 Schedule Viewing and Schedule Recording entries.
  - Recordings are DRM-protected and therefore cannot be played back on a computer or on a different TV. In addition, these files cannot be played back on your TV if its video circuit has been replaced.
  - A USB hard drive with a speed of 5,400 rpm or above is recommended. However, RAID-type USB hard drives are not supported.
  - USB memory sticks are not supported.
  - The total recording capacity may differ with the amount of available hard drive space and the recording quality level.

- Schedule Recording requires at least 100 MB of free space on the USB storage device. Recording will stop if the available storage space falls below 50 MB while recording is in progress.
- If the available storage space falls below 500 MB while both the Schedule Recording and Timeshift functions are in progress, only the recording will stop.
- The maximum recording time is 720 minutes.
- Videos are played according to the TV settings.
- If the input signal is changed while recording is in progress, the screen will go blank until the change is made. In this case, recording will resume, but will not be available.
- When using the Record or Schedule Recording function, the actual recording may start a second or two later than the specified time.
- If the Schedule Recording function is operating while a recording is being made on an HDMI-CEC external device, the priority is given to the Schedule Recording.
- Connecting a recording device to the TV automatically deletes abnormally saved recorded files.
- If the Off Timer or Auto Power Off has been set, the TV will override these settings, continue to record, and turn off after the recording has ended.

  - 偷 > 锪 Settings > General > Eco Solution > Auto Power Off

### Before using the timeshift function

- Timeshift may not be supported depending on the model or geographical area.
- A USB hard drive with a speed of 5,400 rpm or above is recommended. However, RAID-type USB hard drives are not supported.
- USB memory sticks or flash drives are not supported.
- The total recording capacity may differ with the amount of available hard drive space and the recording quality level.
- If the available storage space falls below 500 MB while both the Schedule Recording and Timeshift functions are in progress, only the recording will stop.
- The maximum amount of time available for the Timeshift function is 90 minutes.
- The Timeshift function is not available for locked channels.
- Time-shifted videos are played according to the TV settings.
- The Timeshift function may be terminated automatically once it reaches its maximum capacity.
- The Timeshift function requires at least 1.5 GB of free space available on the USB storage device.

# Supported broadcasting audio options

Check the supported broadcasting audio options.

	Audio Type	Dual Sound	Default
A2 Stereo	Mono	Mono	Automatic change
	Stereo	Stereo, Mono	Automatic change
	Dual	Dual I, Dual II	Dual I
NICAM Stereo	Mono	Mono	Automatic change
	Stereo	Mono, Stereo	Automatic change
	Dual	Mono, Dual I, Dual II	Dual I

- If the **Stereo** signal is too weak and an automatic switching occurs, select **Mono**.
- Available only for the stereo signals.
- Available only when the input source is set to TV.

# **Read Before Using Apps**

#### Read this information before using Apps.

- Due to the product characteristics featured on Samsung Smart Hub, as well as limitations in available content, certain features, applications, and services may not be available on all devices or in all territories. Visit http:// www.samsung.com for more information on specific device information and content availability. Services and content availability are subject to change without prior notice.
- Samsung Electronics takes no legal responsibility whatsoever for any interruption of app services caused by the service provider for any reason.
- Application services may be provided in English only and available content may differ with the geographical area.
- For more information about applications, visit the applicable service provider's website.
- An unstable Internet connection may cause delays or interruptions. In addition, applications may terminate automatically depending on the network environment. If this occurs, check your Internet connection and try again.
- Application services and updates may become unavailable.
- Application content is subject to change by the service provider without prior notice.
- Specific services may differ with the version of the application installed on the TV.
- An application's functionality may change in future versions of the application. If this occurs, run the application's tutorial or visit the service provider's website.
- Depending on the service provider's policies, certain applications may not support multitasking.

# Read Before Using the Internet

#### Read this information before using the Internet.

- The Internet is not compatible with Java applications.
- File download is not supported.
- The Internet may not be able to access certain websites.
- The TV does not support playback of flash videos.
- E-commerce for online purchases is not supported.
- With websites that have scrollable windows, scrolling a window can result in corrupted characters.
- ActiveX is not supported.
- Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
- The response to remote commands and the resulting on-screen display may be delayed while a web page is loading.
- Loading a web page may be delayed or suspended completely with certain operating systems.
- The copy and paste operations are not supported.
- When composing an email or a simple message, certain functions such as the font size and colour selection may not be available.
- There is a limit to the number of bookmarks and the size of the log file that can be saved.
- The number of windows that can be opened concurrently differs with the search conditions and the TV model.
- The web browsing speed will differ with the network environment.
- Embedded videos in a web page cannot be played at the same time while the PIP (picture-in-picture) function is operating.
  - This function may not be supported depending on the model or geographical area.
- If the Clock has not been set, the browsing history will not be saved.
  - ♠ > ♦ Settings > General > System Manager > Time > Clock

- The browsing history is saved from latest to oldest, with the oldest entries being overwritten first.
- Depending on the types of video/audio codecs supported, it might not be possible to play certain video and audio files while playing HTML5 Video/Audio.
- Video sources from PC-optimised streaming service providers may not play properly on our proprietary Internet.

# Read before setting up a wireless Internet connection

#### Precautions for wireless Internet

- This TV supports the IEEE 802.11 a /b /g /n /ac communication protocols. Samsung recommends using IEEE 802.11n. Video files stored on a device connected to the TV via a Home Network may not play back smoothly.
  - Some of the IEEE 802.11 communication protocols may not be supported depending on the model.
- To use wireless Internet, the TV must be connected to a wireless router or modem. If the wireless router supports DHCP, the TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel that is not currently in use for the wireless router. If the channel set for the wireless router is currently being used by another device, the result is usually interference and/or a communications failure.
- Most wireless networks have an optional security system. To enable a wireless network's security system, you need to create a password using characters and numbers. This password is then needed to connect to a security-enabled AP.

## Wireless security protocols

The TV only supports the following wireless network security protocols.

- Authentication Modes: WEP, WPAPSK, WPA2PSK
- Encryption Types: WEP, TKIP, AES

The TV cannot connect to non-certified wireless routers.

In compliance with the newest Wi-Fi certification specifications, Samsung TVs do not support WEP or TKIP security encryption in networks running in the 802.11n mode. If the wireless router supports WPS (Wi-Fi Protected Setup), you can connect the TV to your network using PBC (Push Button Configuration) or a PIN (Personal Identification Number). WPS automatically configures the SSID and WPA key settings.

# Read Before Playing Photo, Video, or Music Files

Read this information before playing media content.

# Limitations on use of photo, video, and music files (Ty Now)

- The TV supports MSC (Mass Storage Class) USB devices only. MSC is a class designation for mass storage devices. Types of MSC devices include external hard drives, flash card readers, and digital cameras. (USB hubs are not supported.) These kinds of devices must be connected directly to the USB port. The TV may not be able to recognise a USB device or read the files on the device if it is connected with a USB extension cable. Do not disconnect USB devices while they are transferring files.
- When connecting an external hard drive, use the USB (HDD) port. We recommend that you use an external hard drive with its own power adapter.
- Certain digital cameras and audio devices may not be compatible with the TV.
- If there are multiple USB devices connected to the TV, the TV might not be able to recognise some or all the devices. USB devices that use high-power input should be connect to the USB [5V, 1A] port.
- The TV supports the FAT, exFAT, and NTFS file systems.
- After sorting files in the Folder view mode, the TV can display up to 1,000 files per folder. If the USB device contains more than 8,000 files and folders, however, some files and folders might not be accessible.
- Certain files, depending on how they are encoded, may not play on the TV.
- Certain files are not supported on all models.
- The UHD Video Pack content is not supported by the Samsung UHD TVs produced in 2017 or later.
- DivX and DTS codecs are not supported by the Samsung TV models released in 2018.

# Supported external subtitles

Name	Format
MPEG-4 Timed text	.ttxt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass
SMPTE-TT Text	.xml

# Supported internal subtitles

Name	Container
Xsub	AVI
SubStation Alpha	MKV
Advanced SubStation Alpha	MKV
SubRip	MKV
VobSub	MKV
MPEG-4 Timed text	MP4
TTML in smooth streaming	MP4
SMPTE-TT TEXT	MP4
SMPTE-TT PNG	MP4

# Supported image formats and resolutions

File extension	Format	Resolution
*.jpg	JPEG	15360 x 8640
*.jpeg		
*.png	PNG	4096 x 4096
*.bmp	ВМР	4096 x 4096
*.mpo	MPO	15360 x 8640



# Supported music formats and codecs

File extension	Format	Codec	Note
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a			
*.mpa	MPEG4	AAC	
*.aac			
*.flac	FLAC	FLAC	Supports up to 2 channels
*.ogg	OGG	Vorbis	Supports up to 2 channels
*.wma	WMA	WMA	WMA is supported up to 10 Pro 5.1 channels, M2 profile. WMA1, WMA lossless / Voice are not supported.
*.wav	wav	wav	
*.mid	midi	midi	Supports type 0 and type 1. Seek is not supported. Supports USB device only.
*.ape	ape	ape	
*.aif	AIFF	AIFF	
*.aiff	All I	73.0.1	
*.m4a	ALAC	ALAC	

# Video codecs supported by NU7100 model series or higher

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs											
		H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 30 3840 x 2160: 60	60												
		HEVC (H.265 - Main, Main10)		60	80												
*.avi *.mkv		Motion JPEG	3840 x 2160	30	80												
*.asf *.wmv		MVC				Dolby Digital LPCM											
*.mp4 *.mov	AVI MKV	MPEG4 SP/ASP				ADPCM(IMA, MS)  AAC											
*.3gp *.vro	ASF MP4 3GP MOV FLV VRO VOB PS TS SVAF	ASF	ASF	ASF	Window Media Video v9 (VC1)		60		HE-AAC WMA								
*.mpg *.mpeg		MPEG2				Dolby Digital Plus MPEG(MP3)											
*.ts *.tp *.trp		VRO VOB PS TS	VRO VOB PS TS	MPEG1	1920 x 1080		20	MPEG-H AC-4									
*.mov				PS TS	PS TS	PS TS	PS TS	PS TS	PS TS	PS	PS	PS	Microsoft MPEG-4 v1, v2, v3				G.711(A-Law, μ-Law)
*.vob *.svi										Window Media Video v7 (WMV1), v8 (WMV2)		30		OPUS			
*.m2ts *.mts									H.263 Sorrenson								
		VP6															
*.webm	om WebM	VP8	1920 x 1080	60	20	Vorbis											
		VP9 (Supported up to profile 0, profile 2)	3840 x 2160	3840 x 2160: 60	80												
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6											

# Video codecs supported by NU7090 model series or lower

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs												
		H.264 BP/MP/HP	3840 x 2160	3840 x 2160: 30 1920 x 1080: 60	50													
		HEVC (H.265 - Main, Main10)		60	50													
*.avi *.mkv		Motion JPEG																
*.asf *.wmv		MVC				Dolby Digital LPCM												
*.mp4 *.mov	AVI MKV	MPEG4 SP/ASP				ADPCM(IMA, MS)  AAC												
*.3gp *.vro	.3gp ASF f.vro MP4 mpg 3GP mpeg MOV *.ts FLV *.tp VRO f.trp VOB .mov PS *.flv TS .vob SVAF *.svi m2ts	ASF Window Media Video v9 (VC1)		60		HE-AAC WMA												
*.mpg *.mpeg * ts		3GP MOV FLV VRO VOB PS TS	pg 3GP beg MOV cs FLV vRO rp VOB nov PS lv TS bb SVAF vi	MPEG2 1920 x 1080		20	Dolby Digital Plus MPEG(MP3)											
*.tp				VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	VRO VOB PS TS	MPEG1				MPEG-H AC-4				
*.mov										PS TS	PS	PS	PS	Microsoft MPEG-4 v1, v2, v3				G.711(A-Law, μ-Law)
*.vob											Window Media Video v7 (WMV1), v8 (WMV2)		30		OPUS			
*.m2ts *.mts									H.263 Sorrenson									
		VP6																
* wehm	*.webm WebM	VP8	1920 x 1080		20	Vorbis												
·WCDIII		VP9 (Supported up to profile 0, profile 2)	3840 x 2160	60	50	V 01 DI3												
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080		20	RealAudio 6												

### Other restrictions

- Codecs may not function properly if there is a problem with the content.
- Video content does not play or does not play correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.
- If the Index Table is has an error, the Seek (Jump) function will not work.
- When playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with the TV.
- HEVC codec is only available in MKV / MP4 / TS containers.
- The MVC codec is supported partly.

### Video decoders

- H.264 UHD is supported up to Level 5.1, and H.264 FHD is supported up to Level 4.1. (TV does not support FMO / ASO / RS)
- HEVC UHD is supported up to Level 5.1.
- VC1 AP L4 is not supported.
- GMC 2 or above is not supported.

## Audio decoders

- WMA is supported up to 10 Pro 5.1 channels, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB / WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital Plus is supported for up to 5.1 channels.
- The supported sample rates are 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, and 48 KHz, and differ with the codec.

# Read After Installing the TV

Read this information after installing the TV.

# Picture sizes and input signals

The Picture Size settings are applied to the current source. The applied Picture Size Settings will remain in effect whenever you select that source unless you change them.

Input signal	Picture size
Component	16:9 Standard, Custom, 4:3
Digital channel (720p)	16:9 Standard, Custom, 4:3
Digital channel (1080i, 1080p)	16:9 Standard, Custom, 4:3
Digital channel (3840 x 2160p @ 24/30 Hz)	16:9 Standard, Custom
Digital channel (3840 x 2160p @ 50/60 Hz)	16:9 Standard, Custom
Digital channel (4096 x 2160p)	16:9 Standard, Custom
HDMI (720p)	16:9 Standard, Custom, 4:3
HDMI (1080i, 1080p)	16:9 Standard, Custom, 4:3
HDMI (3840 x 2160p)	16:9 Standard, Custom
HDMI (4096 x 2160p)	16:9 Standard, Custom
USB (720p)	16:9 Standard, Custom, 4:3
USB (1080i/p @ 60 Hz)	16:9 Standard, Custom, 4:3
USB (3840 x 2160p @ 24/30 Hz)	16:9 Standard, Custom
USB (3840 x 2160p @ 60 Hz) USB (4096 x 2160p @ 24/30/60 Hz)	16:9 Standard, Custom

# Installing an anti-theft lock

An anti-theft lock is a physical device that can be used to protect the TV against theft. Look for the lock slot on the back of the TV. The slot has a cition next to it. To use the lock, wrap the lock cable around an object that is too heavy to carry and then thread it through the TV's lock slot. The lock is sold separately. The method of using an anti-theft lock may differ for each TV model. Refer to the lock's user manual for more information.



This function may not be supported depending on the model or geographical area.

# Supported Resolutions for UHD Input Signals

Check the supported resolution for UHD input signals.

• Resolution: 3840 x 2160p, 4096 x 2160p

An HDMI connection with **HDMI UHD Color** set to **Off** supports up to UHD 50P/60P 4:2:0 input signals, while an HDMI connection with **HDMI UHD Color** set to **On** supports up to UHD 50P/60P 4:4:4 and 4:2:2 input signals.

## If HDMI UHD Color is set to Off

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	-	-	-	0

## If HDMI UHD Color is set to On

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	0	0	0	0
	10 bit	-	-	0	0
	12 bit	-	-	0	0

# Supported Resolutions for FreeSync

Check the supported resolution for the FreeSync function.

• Settings of FreeSync mode: Off / Ultimate (48~120Hz) / Basic (90~120Hz)

The supported FreeSync modes may differ deepening on the external device.

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	SCAN
1920 x 1080	120 Hz	135.000	120.000	297.000	progressive

This function may not be supported depending on the model or geographical area.

# Read Before Connecting a Computer (Supported Resolutions)

## Check the supported resolution for PC input signals.

When you connect your TV to a computer, set the computer's video card to one of the standard resolutions listed in the tables below or on the next page. The TV will automatically adjust to the resolution you choose. Note that the optimal and recommended resolution is 3840 x 2160 at 60 Hz. Choosing a resolution not included in the tables can result in a blank screen or just the power indicator turning on. Refer to the user manual of your graphics card for compatible resolutions.



The native resolution is 3840 x 2160 at 60Hz with the **HDMI UHD Color** set to **On**. The native resolution is 3840 x 2160 at 30Hz with the **HDMI UHD Color** set to **Off**.

## **IBM**

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
720 x 400	70 Hz	31.469	70.087	28.322	-/+

## MAC

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
640 x 480	67 Hz	35.000	66.667	30.240	-/-
832 x 624	75 Hz	49.726	74.551	57.284	-/-
1152 x 870	75 Hz	68.681	75.062	100.000	-/-

# **VESA DMT**

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
640 x 480	60 Hz	31.469	59.940	25.175	-/-
640 x 480	72 Hz	37.861	72.809	31.500	-/-
640 x 480	75 Hz	37.500	75.000	31.500	-/-
800 x 600	60 Hz	37.879	60.317	40.000	+/+
800 x 600	72 Hz	48.077	72.188	50.000	+/+
800 x 600	75 Hz	46.875	75.000	49.500	+/+
1024 x 768	60 Hz	48.363	60.004	65.000	-/-
1024 x 768	70 Hz	56.476	70.069	75.000	-/-
1024 x 768	75 Hz	60.023	75.029	78.750	+/+
1152 x 864	75 Hz	67.500	75.000	108.000	+/+
1280 x 720	60 Hz	45.000	60.000	74.250	+/+
1280 x 800	60 Hz	49.702	59.810	83.500	-/+
1280 x 1024	60 Hz	63.981	60.020	108.000	+/+
1280 x 1024	75 Hz	79.976	75.025	135.000	+/+
1366 x 768	60 Hz	47.712	59.790	85.500	+/+
1440 x 900	60 Hz	55.935	59.887	106.500	-/+
1600 x 900	60 Hz	60.000	60.000	108.000	+/+
1680 x 1050	60 Hz	65.290	59.954	146.250	-/+
1920 x 1080	60 Hz	67.500	60.000	148.500	+/+

# **VESA CVT**

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
2560 x 1440	120 Hz	182.996	119.998	497.750	+ / -

The resolution may not be supported depending on the model.

# CTA-861

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
3840 x 2160	30 Hz	67.500	30.000	297.000	-/-
*3840 x 2160	60 Hz	135.000	60.000	594.000	-/-
**1920 x 1080	100 Hz	112.500	100.000	297.000	+/+
**1920 x 1080	120 Hz	135.000	120.003	297.000	+/+

\*: This resolution is only supported by HDMI 2.0 mode.

\*\*: The resolution may not be supported depending on the model.

# Supported Resolutions for Video Signals

Check the supported resolution for video signals.

# CTA-861

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
720 (1440) x 576i	50 Hz	15.625	50.000	27.000	-/-
720 (1440) x 480i	60 Hz	15.734	59.940	27.000	-/-
720 x 576	50 Hz	31.250	50.000	27.000	-/-
720 x 480	60 Hz	31.469	59.940	27.000	-/-
1280 x 720	50 Hz	37.500	50.000	74.250	+/+
1280 x 720	60 Hz	45.000	60.000	74.250	+/+
1920 x 1080i	50 Hz	28.125	50.000	74.250	+/+
1920 x 1080i	60 Hz	33.750	60.000	74.250	+/+
1920 x 1080	24 Hz	27.000	24.000	74.250	+/+
1920 x 1080	25 Hz	28.125	25.000	74.250	+/+
1920 x 1080	30 Hz	33.750	30.000	74.250	+/+
1920 x 1080	50 Hz	56.250	50.000	148.500	+/+
1920 x 1080	60 Hz	67.500	60.000	148.500	+/+
3840 x 2160	24 Hz	54.000	24.000	297.000	+/+
3840 x 2160	25 Hz	56.250	25.000	297.000	+/+
3840 x 2160	30 Hz	67.500	30.000	297.000	+/+

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
*3840 x 2160	50 Hz	112.500	50.000	594.000	+/+
*3840 x 2160	60 Hz	135.000	60.000	594.000	+/+
4096 x 2160	24 Hz	54.000	24.000	297.000	+/+
4096 x 2160	25 Hz	56.250	25.000	297.000	+/+
4096 x 2160	30 Hz	67.500	30.000	297.000	+/+
*4096 x 2160	50 Hz	112.500	50.000	594.000	+/+
*4096 x 2160	60 Hz	135.000	60.000	594.000	+/+
**1920 x 1080	100 Hz	112.500	100.000	297.000	+/+
**1920 x 1080	120 Hz	135.000	120.003	297.000	+/+

<sup>\*:</sup> This resolution is only supported by HDMI 2.0 mode.

# **VESA CVT**

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
2560 x 1440	120 Hz	182.996	119.998	497.750	+/-

The resolution may not be supported depending on the model.

<sup>\*\*:</sup> The resolution may not be supported depending on the model.

# Read Before Using Bluetooth Devices

### Read this information before using a Bluetooth device.

8

This function may not be supported depending on the model or geographical area.

## Restrictions on using Bluetooth

- You can't use Bluetooth devices and the Wi-Fi Speaker Surround Setup feature simultaneously.
- Compatibility issues may occur, depending on the Bluetooth device. (A Mobile exclusive headphone may not be available, depending on the environment.)
- Lip-sync errors may occur.
- The TV and Bluetooth device may disconnect, depending on the distance between them.
- A Bluetooth device may hum or malfunction:
  - When a part of your body is in contact with the receiving/transmitting system of the Bluetooth device or the TV.
  - When the device is subject to electrical variation from obstructions caused by a wall, corner, or office partitioning.
  - When the device is exposed to electrical interference from same frequency-band devices including medical equipment, microwave ovens, and wireless LANs.
- If the problem persists, we recommend you use a wired connection.
  - DIGITAL AUDIO OUT (OPTICAL) port
  - HDMI (ARC) port

# Buttons and functions available while playing multimedia content

Review available media playback, control, and record buttons and descriptions of how they are used.

Press the Select button while playing any video, photo, or recorded content. The following buttons appear.

- The provided buttons or functions may differ with the media content type.
- The available buttons and functions may differ with the content you are viewing or playing.

#### Pause / Play

Pauses or plays the multimedia content. You can use the following functions when the video is paused.

- Slow Rewind or Slow Forward: Allows you to play the video slowly backward or forward by selecting the

   or 
   option. To change the playback speed in 3 levels, press the option repeatedly. To return to normal speed, select the 
   option or press the button.
- Jump Backward / Jump Forward: Press the up directional button to move the focus to the playback control bar, and then select the left or right directional button in the playback control bar to move backward or forward by 10 seconds in the video.
- Move to a specific playback section, move up the focus on the playback bar, and then select one of the five thumbnails.
  - This function may not be supported depending on the file format.

#### Previous / Next

Displays the previous or the next multimedia content file.

#### Rewind / Fast Forward

Rewinds or fast forwards the multimedia content. To increase the rewind or fast forward speed up to 3 times faster than normal, select the button repeatedly. To return to normal speed, select the option or press the button.

#### 360 Auto Rotation

Automatically adjusts the video's viewing angle by analysing the amount of image changes during playback of a video file that provides a 360-degree view. When this function is started, the rotation starts in a short time.

- General
- Dynamic
- Natural
- The **360 Auto Rotation** function does not work in **General** mode.
- This function may not be supported depending on the file format.
- Video files that use the mjpeg codec do not support a 360-degree view.
- When a video does not support a 360-degree view, applying 360 rotation to it may cause the screen to look distorted.
- Videos may be interrupted if 360 rotation is applied during double speed playback.
- Videos that support a 360-degree view may be interrupted if 360 rotation is simultaneously applied with other functions during playback.

#### 360 Mode

Provides a 360-degree view for videos and photos.

- This function may not be supported depending on the file format.
- Video files using the mjpeg codec do not support a 360-degree view.
- When a video or photo does not support a 360-degree view, applying 360 rotation to it may cause the screen to look distorted.
- Videos may be interrupted if 360 rotation is applied during double speed playback.
- Videos that support a 360-degree view may be interrupted if 360 rotation is simultaneously applied with other functions during playback.

#### Repeat

Plays the current multimedia content repeatedly or all multimedia content files in the same folder repeatedly.

#### Shuffle

Plays music files in random order.

#### Picture Off

Plays multimedia content with the screen off.

### Fit to screen

Fits a photo to the screen.

### Zoom

Zooms a photo in by up to a factor of 4.

## • Rotate left / Rotate right

Rotates a photo left or right.

## • Background Music

During a slideshow, pauses or resumes the background music.

## Options

The available options may differ with the model and content.

Function	Description	
Slideshow Speed	Sets the slideshow speed.	
Slideshow Effect	Applies transition effects to the slide show.	
Background Music	Plays background music while the TV displays photos.  The music files must be saved in the same USB device as the photo files.  To pause the background music, select Background Music on the playback screen bottom.	
Subtitles	Controls video subtitles.  Subtitles: Turns the language of the subtitles on or off.  Sync: Adjusts the synchronisation when the video and the subtitles are not synchronised.  Reset Sync: Resets the subtitle synchronisation adjustment to 0.  Size: Changes the font size of the subtitles.  Encoding: Displays a list of encoding languages. Allows you to change the encoding language when subtitles are displayed incorrectly.  Edge Type: Adjusts the position of text and subtitle edges.  Edge Color: Changes the colour of subtitle edges.	
Rotate	Rotates the video.	
Audio Language	Changes the audio language you want to hear.  This function is only available if the video supports multi-track sound.	
Information	Displays detailed information about the current multimedia content.	

## Licence

Check the licence information and trademarks applied in your TV.

# **DOLBY** AUDIO™

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



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

#### **Open Source License Notice**

Open Source used in this product can be found on the following webpage. (http://opensource.samsung.com) Open Source License Notice is written only English.



Trademark: Rovi and Rovi Guide are trademarks of Rovi Corporation and/or its subsidiaries.

Licence: The Rovi Guide system is manufactured under licence from Rovi Corporation and/or its subsidiaries.

Patent: The Rovi Guide system is protected by patents and patent applications filed in the US, Europe, and other countries including one or more of the United States patents 6,396,546; 5,940,073; 6,239,794 issued to Rovi Corporation and/or its subsidiaries.

Disclaimer: Rovi Corporation and/or its subsidiaries and related affiliates are not in any way liable for the accuracy or availability of the programme schedule information or other data in the Rovi Guide system and cannot guarantee service availability in your area. In no event shall Royi Corporation and/or its related affiliates be liable for any damages in connection with the accuracy or availability of the programme schedule information or other data in the Rovi Guide system.







This licence may not be supported depending on the model or geographical area.

# Accessibility Guidance

Provides a menu and a remote control guide that aid the visually impaired.

# Menu Learning Screen

Learn the menus on the TV screen. Once enabled, your TV will tell you the structure and features of the menus you select.

# Using the Remote control

Guide for the Samsung Smart Remote.



The Samsung Smart Remote may not be supported depending on the model or geographical area.

# Orientation of the Samsung Smart Remote

Hold the remote control with the buttons facing towards you. The remote is slightly thinner towards the top and thicker towards the bottom.

# Description of the Samsung Smart Remote

From top to bottom and left to right:

- The button is at the top left.
- There is a small LED at the right side of the button, but you cannot find it by touching with hand.
- Below the LED is a round button which is the button.
- Of the two buttons below the button on the Samsung Smart Remote that comes with the QLED TV, the left one is the 123 button and the right one the button.
- Of the two buttons below the button on the Samsung Smart Remote that comes with the UHD TV, the left one is the 123 button and the right one the button.

- Underneath these two buttons is the directional button which consists of a large outer circle with a round button in the middle.
- Underneath the directional button are two buttons on the left and right hand sides and another button at the centre. The one on the left is the button and the one on the right is the button. The round button in the middle is the button.
- Underneath the button are two thin horizontal buttons. These are more protruded than the other buttons on the remote control. The one on the left is the volume button and the one on the right is the channel button. Push up from beneath or down from above to use these as rocker buttons to change the channel or volume.
  - Briefly press the VOL button to mute the sound.
  - Press and hold the VOL button to open the Accessibility Shortcuts menu.
  - Briefly press the CH button to open the Guide.
  - Press and hold the CH button to open the Channel List.
    - This function may not be supported depending on the model or geographical area.

#### The colour buttons

If you press the post or button while viewing a programme, the Record, Timeshift, Stop (when Timeshift is running), Info, red, green, yellow, blue, and Move to the top (or Move to the bottom) options appear.



This function may not be supported depending on the geographical area.

## The play/pause button

If you press the button while watching a TV programme, the screen you are watching stops and a control bar appears. You can select Rewind, Play, Pause, Fast Forward, Stop Timeshift, Record, Go to Live TV, or Info. You can press the up directional button to go to the playback screen and check the time that the actual broadcast programme is running and the timeshift time.

- This function may not be supported depending on the model or geographical area.
- You can use the **Slow Rewind** or **Slow Forward** functions when select the **Pause** option.
- To use Timeshift, you must connect a USB device for recording.

# Using the accessibility menu

View descriptions of accessibility menu functions.

This function may not be supported depending on the model or geographical area.

# Accessibility Shortcuts menu

Press and hold the VOL button to display the Accessibility Shortcuts menu.

The Accessibility Shortcuts menu allows you to turn Voice Guide on or off by changing the settings. Voice Guide speaks the menu items displayed on the screen so that people who cannot see the screen can easily use the TV.

The menu contains a number of items including:

- Voice Guide: This function works on every screen on the TV and when turned on speaks to identify items displayed on screen. For example, it tells you the selected volume, the current channel and programme information. It also reads out the programme information in the Electronic Programme Guide (EPG).
- **High Contrast**: This function allows you to display all menus with an opaque black background and a white font, providing maximum contrast.
- Enlarge: This function enlarges important elements on the screen such as the names of programmes.
- Learn TV Remote: Learn the names and functions of the buttons on remote control. On this screen, pressing the power button (top left button) will turn off the TV, but when any other button is pressed the TV will say the button name and briefly tell what that button does. This teaching mode helps you to learn the location and operation of the buttons on the remote without affecting normal TV operation. Press the button twice to exit Learn TV Remote.
- Menu Learning Screen: Learn the menus on the TV screen. Once enabled, your TV will tell you the structure and features of the menus you select.

## Opening the Accessibility Shortcuts menu

On the Samsung Smart Remote, there are two thin horizontal rocker buttons next to each other located slightly below the middle of the remote. The one on the left is the volume rocker button. Press and hold the volume rocker button to open the Accessibility Shortcuts menu.

If you press and hold the VOL button while Voice Guide is turned off, the Accessibility Shortcuts menu appears and Voice Guide starts. You can turn on or turn off the functions such as Voice Guide, Audio Description, High Contrast, Greyscale, Colour Inversion, Enlarge, Learn TV Remote, Menu Learning Screen, Subtitle, Multi-output Audio, and you can move to the Learn TV Remote and Menu Learning Screen pages.

1

**Learn TV Remote** and **Menu Learning Screen** are only available when **Voice Guide** is enable.

## Using the Accessibility Shortcuts menu

To use the Accessibility Shortcuts menu, you will need to locate the Directional and Select buttons. To learn where the buttons are located, refer to Learn TV Remote menu.

Use the up and down directional buttons to move between the menu items. Press the Select button to turn on or turn off the function indicated by the menu where you are located. Again, use the up and down directional to move between options and press Select to choose an option. To close this menu, use the right directional button to get to the Close option and select this, or press the button.

# Step by Step instructions to run the options

## Turning on Voice Guide

- 1. Press and hold the VOL button on the remote. The Accessibility Shortcuts menu appears.
- 2. Press the up or down directional buttons on the remote to move to and highlight the Voice Guide option.
- 3. Press the Select button on the remote to turn Voice Guide on or off.
- 4. Close the menu either by pressing on the remote or by pressing the right directional button to highlight Close, and then pressing the Select button.

## **Turning on Audio Description**

- 1. Press and hold the VOL button on the remote. The Accessibility Shortcuts menu appears.
- 2. Press the up or down directional buttons on the remote to move to and highlight the Audio Description option.
- 3. Press the Select button on the remote to turn Audio Description on or off.
- 4. Close the menu either by pressing on the remote or by pressing the right directional button to highlight Close, and then pressing the Select button.

## Learning TV Remote

- 1. Press and hold the VOL button on the remote. The Accessibility Shortcuts menu appears.
- 2. Press the up or down directional buttons on the remote to move to and highlight the Learn TV Remote option.
- 3. Press the Select button on the remote. You are now in the e-Manual and specifically on the **Learn TV Remote** page.
- 4. Press a button on the remote. The name and function of the button are heard.
- 5. When you have finished and want to exit the e-Manual, press the button twice to exit Learn TV Remote.
- This function is only available when **Voice Guide** is enabled.

## Accessing the main accessibility menu to change Voice Guide settings

You can also go to an accessibility menu from the TV settings menu. This provides more options, for example, to change the speed of Voice Guide.

The TV will not verbalise this menu unless Voice Guide is already turned on.

- 1. Press the houtton.
- 2. Press the left directional button until you reach 🕸 Settings.
- 3. Press Select and a menu will open.
- 4. Press the down directional button to reach General, and then press Select to open this menu.
- 5. Use the directional buttons to go to the Accessibility menu, and then press Select to open this menu.
- 6. The menu will appear with **Voice Guide Settings** being the first menu. Highlight **Voice Guide Settings**, and then press Select.
- 7. A menu appears with the options to change Voice Guide and Volume, Speed, Pitch.
- 8. Select the menu using the directional buttons, and then press Select.

# Setting accessibility settings using Voice Interaction

**Voice Interaction** lets you control your TV with voice commands spoken into the microphone built into the Samsung Smart Remote. To use **Voice Interaction**, the TV must be set up and tuned and must be connected to the Internet. You can connect the TV to the Internet during the initial setup or do it later through the settings menu.

There are many commands you can say to control the TV. These can be used together with **Voice Guide** to give you voice input and voice output.

To speak a command, press and hold the button (located near the top of the Samsung Smart Remote, directly below the LED power indicator and above the directional button) and say the command, and then release the button. The TV will confirm the command.

For example you can:

### Turn Voice Guide on:

Press the button on the Samsung Smart Remote and say "Voice Guide on".

## Turn Audio Description on:

Press the button on the Samsung Smart Remote, and then say "Audio Description on".

## Turn High Contrast on:

Press the button on the Samsung Smart Remote, and then say "High Contrast on".

# Using the TV with Voice Guide on

You can turn on Voice Guide that describe the menu options aloud to aid the visually impaired.

# Watching TV

## Turning the TV on

Press the button to turn the TV on. Voice guide will speak the channel name.

## Changing channel

You can change the channel in a number of ways. Every time you change channels, the new channel details will be announced. The ways to change the channel are below.

- Channel List ( > Live TV > Channel List)
   Press the button on the remote to open Smart Hub, press the left or right directional buttons to move to Live TV, press the up directional button to move to the top row, press the right directional button to move to Channel List, and then press the Select button.
- CH button: Of the two buttons that protrude from the centre of the Samsung Smart Remote, the right one is the CH button. Push up or pull down the CH button to change the channel.
- Use the number buttons directly or press the CH button on the standard remote control to change the channel.
- Use the 📆 or 123 button on the Samsung Smart Remote to display the virtual numeric pad on the screen.

## Using on-screen number entry via the Samsung Smart Remote:

Use the virtual numeric pad to enter numbers e.g. to enter a channel number or to enter a PIN.

Press the press

- On the bottom row: From the far left: TTX, 1 9, 0, -(dash), Delete, Move to the top (or Move to the bottom)
- The top row has one option, Done.
- This function may not be supported depending on the model or geographical area.

Use the left and right directional buttons to move along the row, and then press Select to choose the numeric pad. When you have finished selecting all the numbers you need (for example, 123), press the up directional button to move to the **Done** option, and then press Select to finish.

When entering a channel number, you can enter the number, and then select the **Done** option on the top row or you can enter the channel number and wait. After a short while, the channel will change and the virtual number pad will disappear from the screen.

## Changing volume

Use the VOL button on the left to change the volume. Every time you change the volume, the new volume level will be announced.

- VOL button: Of the two buttons that protrude from the centre of the Samsung Smart Remote, the left one is the VOL button. Push up or pull down the VOL button to change the volume.
- Press the VOL button on the standard remote control to adjust the volume.

### Using programme information

When watching TV, press the Select button to view programme information which appears at the top of the screen. Voice Guide will say programme subtitles or audio descriptions if they are available. To view more detailed programme information, press and hold the Select button. Voice Guide will say more details such as a synopsis of the programme.

Press the left or right directional button to see what you can watch next on the same channel. Press the up or down directional button to move to other channels and to see which programmes are currently being broadcast on them.

Press to go back or close the programme details.

This function may not be supported depending on the model or geographical area.

# Using the guide

#### See an overview of each channel's programme lineup.

When you want to know the programme information for each channel while watching a broadcast programme, press the CH button on the remote control. Use the directional buttons to view the programme information.



You can see the daily programme schedules for each broadcaster and programme information in the **Guide**. You can select programmes to schedule for viewing or recording.

You can also open the **Guide** using **Voice Interaction**. Press and hold the **U** button on your Samsung Smart Remote, and then say the command "**guide**".

- This function may not be supported depending on the model or geographical area.
- The information in the **Guide** is for digital channels only. Analogue channels are not supported.
- If the Clock is not set, the Guide is not provided. Set the Clock first. ( Settings > General > System Manager > Time > Clock)

If you need to set the clock again, follow the instructions below.

- 1. Press the houtton to open Smart Hub.
- 2. Press the left directional button to move to Settings.
- 3. Press the Select button to display the **Settings** menu screen.
- 4. Use the up and down directional buttons to move to the General menu, and then press the Select button.
- 5. Use the up and down directional buttons to move to the **System Manager** menu, and then press the Select button.
- 6. Select the Time menu, and then press the Select button.
- 7. Select the Clock menu, and then press the Select button.
- 8. Select the Clock Mode menu, press the Select button, and then select Auto or Manual.
  - If you select Manual, you can move to the Date or Time menu below to set the time.

When you open the **Guide**, a table grid of channels and programmes is displayed. The top row displays **Channel Filter** then the day and times. Each row has a channel name on the left and programmes on that channel on the right.

In the **Guide**, use the up and down directional buttons to move between channels and use the left and right directional buttons move to between programmes within a channel. You can also use the 123 or 123 button to enter a channel number and go to that channel directly. You can use the button to go to the current time.

When you move the focus to a programme, you will hear the detailed information about the selected programme. You will also hear if the **Audio Description** and **Subtitles** are available for the programme. When you move the focus to a different channel, you will hear the channel name and number, and the programme details. If you move to a different day, you will hear the day announced for the first programme you reach on that day. The day is not repeated, so if you are not sure what the day is, you can move forwards and backwards 24 hours and then the day will be announced.

## To view a programme on now

In the **Guide**, move to the programme currently broadcasting, and then press the Select button to go to live TV on the selected channel and programme.

## Other options in the guide

In the **Guide**, move to a broadcast scheduled programme, and then press the Select button. A pop-up menu listing the functions below appears. For the programme you are currently watching, press and hold the Select button.

Use the up and down directional buttons to move within this menu, and then press Select to choose an item. Press to close the menu and go back to the **Guide**.

### Record

You can record the programme that you are currently watching or a programme on another channel.

This function may not be supported depending on the model or geographical area.

### Schedule Viewing

You can schedule viewing for a broadcast scheduled programme.

#### Schedule Recording

You can schedule recording for a broadcast scheduled programme.

- This function may not be supported depending on the model or geographical area.
- For more information on **Schedule Recording**, refer to "Recording Programmes".

#### • Edit Recording Time

You can change the start and end times of scheduled programme recordings.

This function may not be supported depending on the model or geographical area.

#### Stop

You can stop the recording function that is currently running.

## Cancel Scheduled Viewing / Cancel Scheduled Recording

You can cancel your scheduled viewings and recordings.

This function may not be supported depending on the model or geographical area.

#### View Details

You can see the detailed information on the selected programme. The information may differ with the broadcast signal. If the information is not provided with the programme, nothing appears.

Press Select on the View Details option. This will open the Details pop-up window for that programme which will display a synopsis. The details pop-up window consists of detailed information and the OK option. After reading the detailed information, press the Select button on the remote control to close the pop-up window.

## Displaying your favourite channels:

If you have set up favourite channels, you will be able to filter the **Guide** so that only those channels are shown. This makes it easier to find programmes you want.

To display your favourites list, move to the current time (press the button) and then press the left directional button to move to the list of channels. Use the up directional button to move up the list until you reach the Filter By: All option. Press Select to bring up a list of options. Use the up and down directional buttons to move between the categories in the list. Highlight the option you want, for example, Favourites 1, and then press Select. The Guide will then show the information for only those channels.

When you have set a filter in the **Guide**, it will remain when you close and re-open the **Guide**. If you find that you don't have the channels you think you should, it is a good idea to check the category, and then select "**Filter By : All**" which will display all tuned channels.

# Setting Up a Schedule Viewing

Configure the TV to show a specific channel or programme at a specific time and date.

The  $\bigcirc$  icon appears next to programmes that have been configured for a schedule viewing.

To set up a schedule viewing, you must first set the TV's clock ( Settings > General > System Manager > Time > Clock).

## Setting up a schedule viewing

The Guide Screen

On the Guide screen, select a programme you would like to view, and then press and hold the Select button. Select Schedule Viewing on the pop-up menu that appears.

The Programme Info Screen

Press the Select button while watching the TV. The Programme Info window appears. Select a broadcast scheduled programme by using the left or right directional buttons, and then the Select button. You can schedule watching the programme by selecting Schedule Viewing.

# Cancelling a scheduled viewing

You have two ways to cancel a scheduled viewing.

## 1. Cancelling a scheduled viewing from the Guide



> Live TV > Guide

Move to the programme for which you want to cancel scheduled viewing, and press the Select button. Move to Cancel Scheduled Viewing, and then press the Select button. When a pop-up message asking you to cancel the selected schedule viewing appears, select Yes. The selected scheduled viewing is cancelled and the screen returns to the Guide screen.

## 2. Cancelling a scheduled viewing from Smart Hub

- (a) > Live TV > Schedule Manager or Recordings > Schedules > Delete
- 1. Press the button to open Smart Hub, and then press the left or right directional button to move to Live TV.

  Press the up directional button to move to the top row, and then press the left or right directional button to move to Schedule Manager or Recordings.
- 2. Press Select to open Schedule Manager or Recordings.
- 3. Press the up directional button to move to the Schedules menu.
- 4. Use the down directional button to move to the list of programmes scheduled to view.
- 5. Use the right directional button to move to the **Delete** option, and then press the Select button to delete the selected item.
- The menus may not appear depending on the model or geographical area.

# Using the Channel List

See how to list the channels available on your TV.



Using Channel List, you can change the channel or check programmes on other digital channels while watching TV.

Press the button on the remote to open Smart Hub, press the left or right directional buttons to move to Live TV, press the up directional button to move to the top row, press the right directional button to move to Channel List, and then press the Select button. This shows a list of the channels and the programme currently on. The focus will be on the channel you are currently watching, showing channel name, channel number, and programme title.

Use the up and down directional buttons to move within the channel list (or use the CH button to go up and down a page at a time). You can also use the 123 button to enter a channel number and go to that channel directly.

Press the right directional button in the Channel List to move to the Category list. Use the up and down directional buttons to move within this list. Press the Select button to choose a category you want from the Category list. The Category list contains All Channels and Favourites. Use the up and down directional buttons to move to a channel you want to view, and then press the Select button.

#### All

Displays the channels that have been automatically searched.

#### TV PLUS

While the TV is connected to the Internet, you can watch popular programmes or highlights for each theme through a virtual channel at any time. As in a general channel, it provides the daily programme schedules of TV PLUS.

#### Favourites

Displays Favourites 1 to Favourites 5. Use the up and down directional buttons to move between the lists of favourites. Highlight the one you want, and then press Select. The channel list will now show only the channels in this list.

### Channel Type

Sorts the list so that it includes channels of a selected type. However, **Channel Type** can only be used channels contain the type information.

This function may not be supported depending on the incoming broadcast signal.

#### Sort

Sorts the list by Number or by Name.

This option is only available on digital channels and may not always be available.

#### • Terrestrial, Cable, or Satellite

Allows you to choose between Terrestrial, Cable, and Satellite.

- This function may not be supported depending on the incoming broadcast signal.
- This function may not be supported depending on the model or geographical area.

## Creating a Personal Favourites List

Designate frequently watched channels as favourite channels.

Favourite channels are highlighted in the Edit Channel and Channel List screens with the symbol .

## Registering channels as favourites

# 

- 1. Press the right directional button to move to the Category list.
- 2. Select Favourites.
- 3. When you select a favourites list, the **Edit Favourites** screen appears.
- 4. Move to the channel you want to add, and then press the Select button.
- 5. Repeat Step 4 to select all the channels you want to add.
- 6. Press the right directional button to move to the \sum icon, and then press the Select button. The selected channels are added to the favourites list.

### To add channels to a favourites list - Detail

- 1. Open the Channel List.
- 2. Press the right directional button to move to the Category list.
- 3. Use the up and down directional buttons to move to Favourites, and then press Select. You will see Favourites 1 to Favourites 5. Move to the list to which you want to add channels, and then press the Select button.
- 4. Use the up directional button to move to Edit Favourites, and then press the Select button.
- 5. In the Edit Favourites screen, move to a channel you want to add to the favourites list, and then press the Select button.
- 6. Repeat Step 5 to select all channels you want to add.
- 7. Press the right directional button to move to the  $\bigcirc$  icon, and then press the Select button. The selected channels are added to the favourites list.

## Deleting channels from a favourites list – Detail

- 1. Open the Channel List.
- 2. Press the right directional button to move to the Category list.
- 3. Use the up and down directional buttons to move to **Favourites**, and then press Select. You will see **Favourites 1** to **Favourites 5**. Move to the list from which you want to delete channels, and then press the Select button.
- 4. Use the up directional button to move to Edit Favourites, and then press the Select button.
- 5. In the Edit Favourites screen, move to a channel you want to delete from the favourites list, and then press the Select button.
- 6. Repeat Step 5 to select all channels you want to delete.
- 7. Press the left directional button to move to the icon, and then press the Select button. The selected channels are deleted from the favourites list.

## Viewing and selecting channels on favourites lists only

# > Live TV > Channel List

- 1. Open the Channel List.
- 2. Press the right directional button to move to the Category list.
- 3. Use the up and down directional buttons to move to Favourites, and press the Select button.
- 4. The Favourites 1 to Favourites 5 appear. Move to the list you want, and then press the Select button. The channels in the selected favourites list appear.

# Recording

#### Recording a programme to an external hard drive connected via USB.



Read all precautions before using the recording feature. For more information, refer to "Before Using the Recording and Timeshift Functions".

# Using the instant and schedule recording options from the guide screen:

To record a programme that is on now, open the programme guide, move to the programme, and then press and hold the Select button. You will get a pop-up menu. Use the up and down directional buttons to move to **Record**. Press select to record the programme. You will be returned to the programme guide. Recording automatically ends at the time when the programme ends.

To open the **Guide** and stop recording the programme, press and hold the Select button. The menu is displayed and there is now a **Stop Recording** option instead of a **Record** option. Press Select button on **Stop** to stop the recording.

To record a programme that is on later, move to the required programme in the **Guide**, and press select. You will get a pop-up menu. Use the up and down directional button to move within this menu. Move to the **Schedule Recording**, and press Select. You will hear a message saying the programme has been set to record and then you will return to the programme guide.

The  $\bigcirc$  icon is placed visually against the programme title to show it is set to record. To find out if a programme is set to record or to cancel a scheduled recording press select on the programme. If it is already set to record then the option on the menu will be **Cancel Scheduled Recording**. You can press Select button to cancel the scheduled recording or just press  $\bigcirc$  button to go back to the programme guide without cancelling the recording.

# Using the Instant and Schedule Recording options from the programme info window

## Recording the programme you are watching

To display a menu for recording a programme or starting the Timeshift function, press the 3 or button while watching the programme. You can select the following functions on the menu:

- Record: Immediately starts to record the programme you are watching.
- Timeshift: Starts the Timeshift function.
- Stop: Stops the recording or the Timeshift function that is running.
- Info: Displays the details about the programme you ware watching.

## Scheduling viewing from the programme info window

Press the Select button while viewing a programme to display the programme info window. In the programme info window, use the left and right directional buttons to select a broadcast scheduled programme, and then press the Select button. To schedule a recording for the programme, select **Schedule Recording**.

# Changing the recording time

When recording a live programme you can specify how long you want to record for.

Press the down directional button to display the control bar at the bottom. Press the left or right directional buttons to move to **Edit Recording Time**, and then press the Select button. A slider scale appears and you will hear the recording time currently set. Use the left and right directional buttons to change the time, and then press the Select button. You will hear a menu that gives information about the recording time. To return to the programme you are watching, press the button on the remote.



The maximum recording time differs depending on the capacity of the USB device.

## Viewing recorded programmes



\[
 \text{Live TV > Schedule Manager or Recordings > Record
 \]

Open the Smart Hub by pressing the h button on the remote control. You will be on the Live TV option. Press the up directional button to move to the top row, and then use the left or right directional button to move to the Guide.

Press the right directional button to move to Recordings and press select. This will open the Recording & Schedule Manager screen.

To play a programme use the up and down directional buttons to move between programme titles and then you can press select to play the programme or press the right directional button to move to a list of options. Use the up and down directional buttons to move between the options in this list to play the programme, remove (or delete) it or view the programme details.

Select the Play option to play the programme. The programme will start. If you have watched part of this programme before you will get a pop-up menu on screen allowing you to Play (from start), Resume (from where you left off) or Cancel. Use the left and right directional buttons to move to the required option and press select.



This function may not be supported depending on the model or geographical area.

# Deleting a recorded programme

To delete a recorded programme go to the list of Recordings. Use the up and down directional buttons to move to the recording you want to delete.

Press the right directional button to move to a list of 3 options. Press the down directional button to move to the Delete option and press select.

You will be asked if you want to remove the selected item. Press the left directional button to move to the Delete button and press select to delete the programme title. The programme will be deleted and you will return to the list of Recordings.

# **Using Smart Hub**

Learn how to open Smart Hub to access apps, games, movies, and more.

## **Smart Hub**

After pressing the hatton on your remote control, you can surf the web and download apps with Smart Hub.

- Some Smart Hub services are for pay services.
- To use **Smart Hub**, the TV must be connected to the Internet.
- Some Smart Hub features may not be supported depending on the service provider, language, or geographical area.
- Smart Hub service outages can be caused by disruptions to your Internet service.
- You can view the entire text of the Terms & Policy by navigating to > Settings > Support > Terms & Policy.
- If you want to stop using Smart Hub, you can cancel the agreement. To cancel the Smart Hub service agreement though it is a required one, select Reset Smart Hub ( Settings > Support > Self Diagnosis > Reset Smart Hub).

Press the button on your remote. This will bring up a display with 2 rows. Try moving the focus to Live TV or another item on the bottom row. The options on the top row change depending on the item selected in the bottom row.

The buttons to the right of Live TV provide quick access to apps such as Netflix and Amazon. Currently, many of these apps are not accessible with Voice Guide.

Use the left and right directional buttons to move between a menu or apps on a row and the up and down directional buttons to move between rows. Press Select to access an a menu or apps.

When you open Smart Hub, you will be on Live TV or TV PLUS. Press the up directional button to move to the top row. You will be on the Guide item. The items in this row are:

- Guide: Select to go to the screen where you can view the programme guide to multiple channels.
- Channel List: Select to open the channel list to view and move to programmes that are being broadcast on other channels.
- Schedule Manager or Recordings: You can go to the Schedule Manager or Recording & Schedule Manager screen.
  - The menus may not appear depending on the model or geographical area.
- To the right of Schedule Manager or Recordings, you can see the programmes you viewed most recently and the programmes that are currently broadcasting on other channels. To go to one of those channels, move to it, and then press the Select button.
  - The menus may not appear depending on the model or geographical area.

# Using the Home Screen in Smart Hub

At the leftmost part of the Home Screen in Smart Hub is the static menu listed below. You can quickly and easily use the listed menu items to access the to main TV settings or external devices, search, and apps.

#### Q Notification

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when it is time to broadcast a scheduled programme or when an event occurs on a registered device.

If you move the focus to **Notification**, and then press the Select button, a notification window appears on the right and the following functions are available:

- Ü Delete All: You can delete all your notifications.
- Settings: You can select services you want to be notified about. When you select Allow sound, notifications are displayed with a notification sound.

### ♠ Settings

When the focus is moved to the 🛱 icon, a list of quick settings icons appears above the top of the menu. You can quickly set frequently used functions by clicking the icons.

#### Picture Mode

You can select the picture mode that provides the best viewing experience. To change the picture mode, press the Select button. To make fine adjustments, press the up directional button, and then select Picture Setup.

#### Sound Mode

You can select a sound mode to optimise your listening experience. To change the sound mode, press the Select button. To make fine adjustments, press the up directional button, and then select **Equaliser Setup**.

#### Sound Output

You can select which speakers the TV uses for audio output. To change the audio output, press the Select button. To connect to a Bluetooth speaker, press the up directional button, and then select \$ Speaker List.

Connecting to a Bluetooth speaker may not be supported depending on the model or geographical area.

#### Subtitle

You can watch TV broadcasts with subtitles. To activate/deactivate the **Subtitle** function, press the Select button. To run **Accessibility Shortcuts**, press the up directional button, and then select **Accessibility Shortcuts**.

#### Audio Language

You can change the audio language you want to hear. To make fine adjustments, press the up directional button, and then select **Go to Audio Options**.

## – PIP

While using a connected external device, you can watch a TV broadcast in a small picture-in-picture (PIP) window. To make fine adjustments, press the up directional button, and then select PIP Setup.

#### Network

You can view the current network and Internet status. Press the up directional button, and then select **Network Status** or **Network Settings**.

This function may not be supported depending on the model or geographical area.

## → Source

You can select an external device connected to the TV.

For more information, refer to "Switching between external devices connected to the TV".

#### Q Search

A Virtual keyboard appears on the screen, and you can search for channels, apps, titles of movies, or apps provided by the Smart Hub service.

To use this feature, the TV must be connected to the Internet.

#### • SS APPS

You can enjoy a wide range of content including news, sports, weather, and games by installing the corresponding apps on your TV.

- To use this feature, the TV must be connected to the Internet.
- For more information, refer to "Using the Apps Service".

#### Ambient Mode

In Ambient Mode, you can view beautiful screens, various visual information, and notifications.

To enter Ambient Mode, press the button. To return to the TV mode, press the button. To shut off the TV, press the button.

If you press the button when the TV is turned off, the TV turns on in Ambient Mode.

- If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering **Ambient**Mode
- Because this function is a QLED TV-specific function, it may not be supported depending on the model.
- For more information about the **Ambient Mode**, refer to "Using the Ambient Mode".

#### Image: Ima

**Universal Guide** is an app that allows you to search for and enjoy various content such as TV shows, dramas, movies, and music in one place. **Universal Guide** can recommend content tailored to your preferences and notify you of new drama series.

- For more information about the **Universal Guide**, refer to "Using the Universal Guide App".
- Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.

# Launching the e-Manual

## Open the user manual embedded in your TV.

Press the E-MANUAL button on the standard remote control to open the menu. Alternatively, press the button to open Smart Hub, press the left directional button to move to Settings, and then press the Select button.

Use the up and down directional buttons to move to Support, and then select Open e-Manual to open the e-Manual.



You can view the embedded e-Manual containing information about your TV's key features.

- Alternatively, you can download a copy of the e-Manual from Samsung's website.
- Words in blue (e.g., Picture Mode) indicate a menu item.

The e-Manual contains 2 rows of menu icons. Use the up and down directional buttons to move between rows and the left and right directional buttons to move within a row. Press Select to open the section you want to read.

The e-Manual contains a section called "Learn TV Remote" in the Accessibility Guidance (at the right corner of the screen). This is particularly useful for people who cannot easily see the buttons on the control or who are not clear what each button does. When you are viewing this section of the e-Manual, pressing the buttons on the remote control will not affect the TV. Note that the "Accessibility Guidance" item is only available when Voice Guide ( > Settings > General > Accessibility > Voice Guide Settings > Voice Guide) is enabled.

# **Using Voice Interaction**

### A guide to using Voice Interaction to control your TV.

To use **Voice Interaction**, your TV must be connected to the Internet and you must use the microphone on your Samsung Smart Remote.

To use **Voice Interaction**, press and hold the button on the Samsung Smart Remote, say a command into the microphone on the remote, and then release the button to run **Voice Interaction**.

The existing functional specifications may be changed if **Voice Interaction** is updated.

# **Running Voice Interaction**

Press and hold the button on the Samsung Smart Remote. Say a command, and then release the button. The TV provides feedback on how it understands the command, and then performs the commanded task.

- If the TV does not understand the command, try again with more precise pronunciation.
- This function may not be supported depending on the model or geographical area.
- The supported language may differ depending on the geographical area.
- You can find a detailed description of the voice commands at Voice Command Guide. Press the button. The Enter Voice Command Guide button appears at the bottom of the screen. Press the Select button to go to the Voice Command Guide screen.