SAMSUNG

E-MANUAL

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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

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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.

1 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.

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

2 Settings

When the focus is moved to **Settings**, 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 for channels, programmes, movie titles, and apps from Smart Hub.

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

6 8 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

You can enhance your living space with decorative content that matches the surroundings or view essential real-time information such as weather, time, and news on the TV screen when you are not watching TV.

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 specific to QLED TV (except for Q50R model) and The Serif, 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, and movies in one place. Universal Guide can recommend content tailored to your preferences.

- For more information about 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.

□ Art

When you are not watching TV or when the TV is turned off, you can use the **Art** mode function to edit image content such as artworks or photos or to display the content.

- This function is supported only in The Frame.
- For more information, refer to the provided user manual.

Using the Ambient Mode

Learn about the functions available in Ambient Mode that are specific to the QLED TV (except for Q50R model) and The Serif.





Ambient Mode

You can enhance your living space with decorative content that matches the surroundings or view essential realtime information such as weather, time, and news on the TV screen when you are not watching TV.



Because this function is specific to QLED TV (except for Q50R model) and The Serif, it may not be supported depending on the model.

Entering Ambient Mode

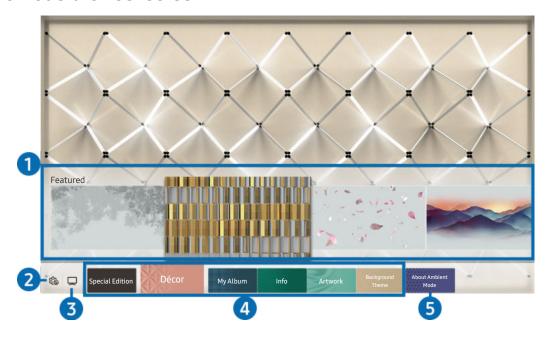
To enter Ambient Mode from the TV viewing screen, press the button, or select (> Ambient Mode.

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**.

Ambient Mode browser screen



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 at the bottom of the screen. In the Ambient Mode browser screen, you can select content and change the Ambient Mode settings.

1 Function and content preview

When you select a category at the bottom of the screen, a preview of available functions and content appears here.

To view detailed information about a content item, move the focus to it, and then press the up directional button.

2 Marbient Settings

You can configure the following Ambient Mode settings:

Auto Brightness

Changes 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 in response to the surrounding light level.

Sleep After

Sets the time when 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.

Reset All Photos

Resets the photos imported from your mobile device or Samsung Cloud.

3 TV

You can enter the TV viewing screen.

4 Selecting a content category

You can select your preferred content and background for the Ambient Mode screen.

Available content categories may differ depending on the model or geographical area.

Special Edition

Allows you to enjoy creative artwork and interior design content created by the world's finest artists and designers.

Décor

Allows you to select content with a sensible and beautiful design.

My Album

Allows you to set a photo stored in your mobile device or Samsung Cloud as the wallpaper of the **Ambient Mode** screen.

- To import photos from your mobile device or Samsung Cloud, use the SmartThings app on your mobile device.
- For more information about how to configure the photo settings, select **View Help**. This function is available after you select a photo in the **My Album** category.

Info

Allows you to select essential real-time information such as weather, temperature, time, and news.

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

Artwork

Allows you to select content such as world famous photos and artwork.

Background Theme

Allows you to select a background theme provided by Samsung.

- Take a picture of a wall using the SmartThings app on your mobile device to create a custom background theme.

 When you use this function, there may be a delay in image transmission and optimisation depending on network conditions.
- You can set a background theme you created as a background of a content item. To set a background theme as the background of a content item, press the down directional button while watching the **Ambient Mode** screen.

6 About Ambient Mode

You can view information about Ambient Mode.

Applying effects to the content

When you are enjoying content in Ambient Mode, press the down directional button to change the following settings for the content:

Available functions may not be supported depending on the content.

Backgrounds

Changes the background of the content.

- This function may not be supported depending on the content.
- You can use the SmartThings app on your mobile device to take a picture of a wall and create a custom background. For more information, select the How-To icon. This function may be a delay in image transmission and optimization depending on network conditions, and may not be supported depending on the model.

Shadow Effects

Applies a shadow effect that you select to the content.

This function may not be supported depending on the content.

Brightness

Adjusts the brightness of the content.

Saturation

Adjusts the saturation of the content.

Colour Tone

Adjusts the colours of the content.

Red Tone / Green Tone / Blue Tone

Adjusts the red, green, blue contrast.

View detailed information about the content

When you are enjoying content in Ambient Mode, press the up directional button to view detailed information about the content.

Entering the TV viewing screen from Ambient Mode

To enter the TV viewing screen from Ambient Mode, press the fine button, or select TV in the Ambient Mode. browser screen.

If you press the button when the TV is turned off, the TV viewing screen appears.

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 button.

Because this function is a QLED TV (except for Q50R model)-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 \oplus . You can add only the channel that you are currently watching.
- 2. Move to the desired location.
- 3. Press the Select button.

The target channel is added in the bookmark (Channels) area.

Moving channels

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

The selected channel 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 channel is removed.

Using Bixby

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

- Bixby is available only when the TV is connected to the Internet.
- To use Bixby, you must register and sign in to your Samsung account. Some functions may not be supported if you are not signed in to your Samsung account.
- Bixby only supports some languages, and the supported functions may differ depending on the geographical area.
- Bixby may not be supported depending on the model or geographical area.

Starting Bixby with voice

You can immediately start a conversation with Bixby by saying "Hi, Bixby". Say "Hi, Bixby", and the Bixby icon at the bottom of the TV screen is activated in Listen mode. Continue speaking. If Bixby does not respond to your voice, turn on the Voice Wake-up function, and then try again. (> Explore Now > Settings > Voice Wake-up)

This function may not be supported depending on the model.

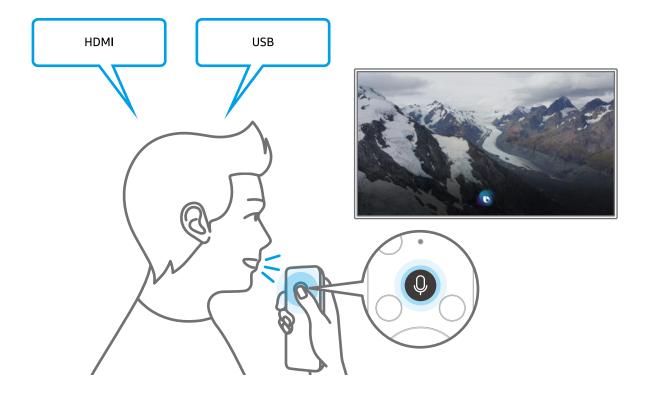
Starting Bixby using buttons on the Samsung Smart Remote

You can also have a conversation with Bixby using the Samsung Smart Remote buttons. Press and hold the button on your Samsung Smart Remote, say a command, and then release the **1** button.

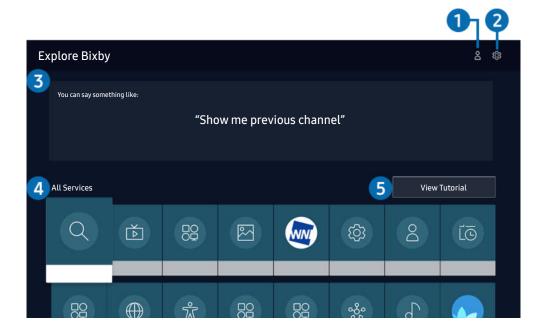


To view the Bixby guide, press the **U** button once:

When you press the U button, the Explore Now button appears at the bottom of the screen. Press the Select button to go to the Explore Bixby screen.



Learning about the Explore Bixby Screen



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

1 A My Profile

Go to the My Profile screen to create a new account or register a voice ID. Sign in to your account with your voice, that is, your registered voice ID.

If you are signed out of your Samsung account, select
 My Profile to sign in.

2 Settings

You can change the settings for using Bixby.

These functions may not be supported depending on the model or geographical area.

Language

You can change Bixby's language.

- The languages of the TV and other apps will not change.
- Bixby only supports some languages.

Voice response

You can change or turn off Bixby's voice.

This function may not be supported depending on the language selected for Bixby.

Voice Wake-up

You can configure this function to make Bixby respond to your voice.

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

Sound feedback

Play a sound when Bixby starts and stops listening.

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

Privacy

You can permit or prohibit Bixby from utilising your personal information when you are using Bixby services.

Recommended commands

Displays recommended commands you can use to control the TV with Bixby given the current context.

4 All Services

You can learn the voice commands that let you use Bixby 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.

5 View Tutorial

The popup window on using Bixby appears.

Read Before Using Bixby

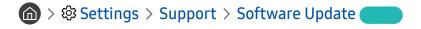
- The supported voice interaction languages and features may differ depending on the geographical area.
- If the language set differs from the language of your country, some features are not available.
- Bixby is available only when the TV is connected to the Internet.
- Even if the TV is connected to the Internet, there may be no response due to a Bixby server error.

- The existing functional specifications may be changed if Bixby is updated.
- Bixby 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 Reset (> Settings > General > Reset).

Updating the TV's Software

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

⚠ 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.



Getting Support

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

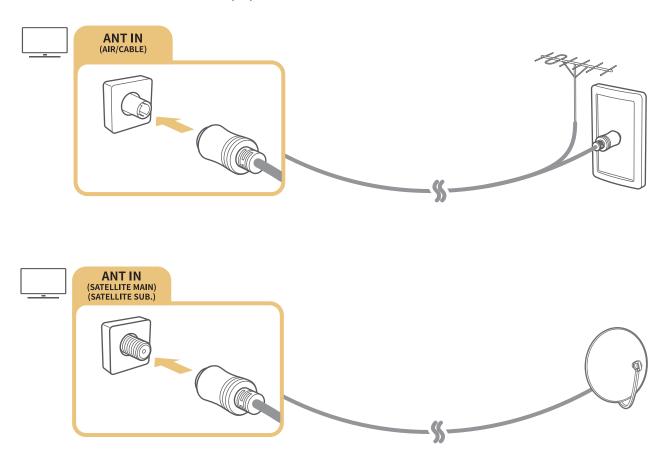
Getting support through Remote Management



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**.

- 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

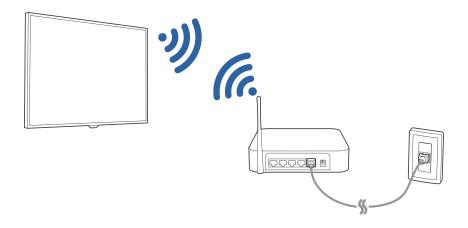
You can get access to the Internet through your TV.

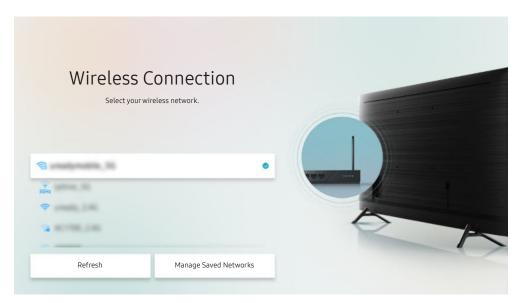
Establishing a wireless Internet connection



Make sure that you have the wireless access point's SSID (name) and password settings before attempting to connect. The network name (SSID) and security key are available on the wireless access point's configuration screen. See the wireless access point's user manual for more information.

The Wireless may not appear 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.
- If no wireless access point is found, select Add Network at the bottom of the list and enter the network name (SSID).
- If your wireless access point 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 access point within 2 minutes. The TV will connect automatically.
- To view or delete previously connected network names (SSIDs), move the focus to Manage Saved Networks, and then press the Select button.

Checking the Internet connection status



Connection Cables for External Devices

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

Cable name	Image	Description
HDMI to HDMI		Each cable simultaneously transmits digital video and audio signals from an external device to the HDMI port on the TV. Cables are divided into various types according to the types of input/output ports on external devices.
HDMI to MINI HDMI		
HDMI to Micro HDMI		
HDMI to USB Type-C		
HDMI to DisplayPort		
Mini DisplayPort to HDMI		

Cable name	Image	Description
DVI to HDMI		DVI to HDMI cables can transmit only digital video signals and not audio signals. We recommend that you use HDMI to HDMI cables.
Optical		Optical cables are used to transmit audio signals to external speakers with low signal loss. Optical cables do not transmit video signals.
Component		Component cables transmit analogue signals. The video signal is separated and transmitted to the red, green, and blue terminals to provide HD (1080i) pictures. The audio signal is transmitted to the red and white terminals.
Composite		Composite cables transmit analogue signals. The video signal is transmitted to the yellow terminal, and the audio signal is transmitted to the red and white terminals.

Available connection cables may differ depending on the model or geographical area.

Switching between external devices connected to the TV

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



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. The output displayed on the TV is automatically switched to the output of the device or you can configure universal remote control for the device automatically. For more information, refer to "Controlling External Devices with a Samsung Remote Control Using the Universal Remote".
- 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 a Samsung 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 a Samsung Remote Control Using the Universal Remote".

2 Edit

You can rename the input ports and change the device icons.

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.

Remote Access

Use the TV to access your PC via remote PC or Screen Sharing (Wireless).

For more information, refer to "Using the Remote Access".

Connection Guide

The guide to device connections.

Universal Remote

Lets you register external devices to your Samsung remote control and control them using the Remote.

- This function may not be supported depending on the model or geographical area.
- For more information, refer to "Controlling External Devices with a Samsung Remote Control 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
 - Premium High Speed HDMI Cable
 - Premium High Speed HDMI Cable with Ethernet
 - Ultra High Speed HDMI Cable
- 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 or DisplayPort ports instead. If your PC does not support HDMI video out, connect your PC with a DVI to HDMI or HDMI to DisplayPort cable.
- When the TV is connected to an external device such as a DVD/BD player or a set-top box via HDMI, power sync mode will be automatically activated. In the power sync mode, the TV continues to detect and connect external devices via HDMI cable. This function can be deactivated by removing the HDMI cable of the connected device.
 - This function may not be supported depending on the model.

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 Optical on the Sound Output menu. (> Settings > up directional button > Sound Output).
 - Use the Settings screen to change to the connected device:
 Select Optical on the Sound Output menu. (Select Optical on the 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)".
- 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 mirroring function such as Screen Mirroring or Smart View. To check whether your mobile device supports the mirroring function, refer to the mobile device's user manual.
- To use Wi-Fi Direct, the mobile device must support the Wi-Fi Direct function. To check whether your mobile device supports Wi-Fi Direct function, refer to the mobile device's user manual.
- 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.

Button	Description
	Runs Bixby. Press and hold the button, say a command, and then release the button to run Bixby.
(Bixby)	When you press the button, the Explore Now menu appears at the bottom of the screen. To move to the Explore Bixby screen, press the Select button.
	The supported Bixby's languages and features may differ by geographical region.
	Each time you press this button, the coloured buttons window and the virtual numeric pad are displayed alternately.
	Use this button to access additional options specific to the feature you are using.
(Colour / Number	 Press to bring up the virtual numeric pad on the screen. Use the numeric keypad to enter numeric values. Select numbers and then select Done to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc.
button)	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".
	If the Colour Button appears with a number strip on the screen, select the Colour Button 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 Ambient Mode.
	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 a broadcast programme, 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. Press the button to use the recording or Timeshift function while watching the broadcast.
VOL (Volume)	Point the Samsung Smart Remote at the remote control sensor of the TV, and then move the button up or down to adjust the volume on the TV. 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 Guide screen, press the button. When pressed for 1 second or more, the Channel List screen appears. Press and hold the button up or down to quickly change the channel.
(Launch app button)	Launch the app indicated by the button.

- 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 or geographical area.
- 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 a Samsung Remote Control 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.
- For Q50R model, refer to "About the Samsung Smart Remote (UHD TV and Q50R model)".

About the Samsung Smart Remote (UHD TV and Q50R model)

Learn about the buttons on the Samsung Smart Remote that comes with the UHD TV and Q50R model.

The images, buttons, and functions of the Samsung Smart Remote may differ with the model or geographical area.



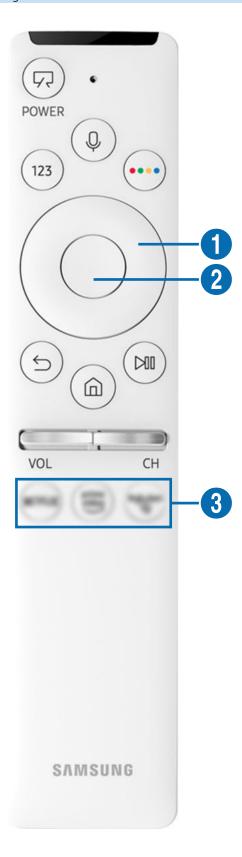
Button	Description
(Bixby)	Runs Bixby. Press and hold the button, say a command, and then release the button to run Bixby. When you press the button, the Explore Now menu appears at the bottom of the screen. To move to the Explore Bixby screen, press the Select button. The supported Bixby's languages and features may differ by geographical region.
(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 Done 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)	When pressed, coloured buttons appear on the screen. Use this button to access additional options specific to the feature you are using.
① Directional pad (up/ down/left/right)	Moves the focus.
2 Select	Selects or runs a focused item. When pressed while you are watching a broadcast programme, 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. Press the button to use the recording or Timeshift function while watching the broadcast.		
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 Guide screen, press the button. When pressed for 1 second or more, the Channel List screen appears. Press and hold the button up or down to quickly change the channel.		
(Launch app button) Launch the app indicated by the button.			

- 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 or geographical area.
- 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 a Samsung Remote Control 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 (The Frame)

Learn about the buttons on the Samsung Smart Remote that comes with the The Frame.



Button	Description
(POWER)	When watching TV, press to switch to Art mode. In Art mode, press to switch to watching TV. Press and hold to turn off the TV completely. When the TV turns off and on again, display the last used mode.
(Bixby)	Runs Bixby. Press and hold the button, say a command, and then release the button to run Bixby. When you press the button, the Explore Now menu appears at the bottom of the screen. To move to the Explore Bixby screen, press the Select button. The supported Bixby's languages and features may differ by geographical region.
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 Done 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)	When pressed, coloured buttons appear on the screen. Use this button to access additional options specific to the feature you are using. To immediately set Colour & Brightness while enjoying Art mode, press the button.
① Directional pad (up/ down/left/right)	Moves the focus.
Select	Selects or runs a focused item. When pressed while you are watching a broadcast programme, detailed programme information appears.

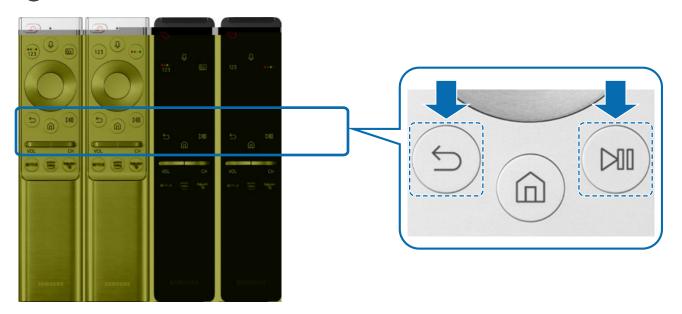
Button	Description
(Return)	Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a programme, the previous channel appears.
(Smart Hub)	Press to return to the Home Screen. Press in Art mode to switch to TV mode.
(Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing. Press the button to use the recording or Timeshift function while watching the broadcast.
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 Guide screen, press the button. When pressed for 1 second or more, the Channel List screen appears. Press and hold the button up or down to quickly change the channel.
(Launch app button)	Launch the app indicated by the button.

- 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 or geographical area.
- 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 a Samsung Remote Control 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 front 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 with the model or geographical area.
- The Samsung Smart Remote may not be supported depending on the model or geographical area.

Controlling External Devices with a Samsung Remote Control - Using the Universal Remote

Control the TV and connected external devices with a Samsung remote control.

You can control external devices connected to the TV using a Samsung 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. For more information, refer to "Using Anynet+ (HDMI-CEC)".
- 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 and TV's logo. 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.).
- If you have difficulty controlling external devices with the Universal Remote, try adjusting the positions of the external devices.
- This function may not operate properly depending on the TV installation environment and the features of 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 Dev	rice Manager	> Anynet+ (H	DMI-CEC)	

- 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, Mouse, or Gamepad

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



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 — — / — / — /
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. Open Open Link in New Tab Enable Scroll Mode

The key operations may differ on some apps.

Setting up the input devices

- - Keyboard Settings

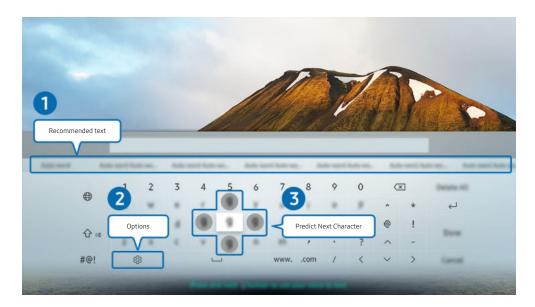
You can set up the keyboard with the Keyboard Language and Keyboard type functions.

Mouse Settings

You can set up the mouse with the Primary Button and Pointer Speed functions.

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.

Recommended 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.
 - Recommended 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 are 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.

- Entering text with your voice may not be supported for some functions.
- This function may not be supported depending on the model or geographical area.

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.

1 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:

- 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 Settings

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

e-Manual

You can open the user manual embedded in your TV.

Intelligent Mode

In Intelligent Mode, the TV recognises and analyses the surroundings, the content, and your usage patterns to provide the best viewing experience. To turn Intelligent Mode on or off, press the Select button. To set the detailed options, press the up directional button, and then select Intelligent Mode Settings.

- Because this function is specific to QLED TV (except for Q50R model), The Frame and The Serif, it may not be supported depending on the model.
- For more information about the Intelligent Mode, refer to "Using the Intelligent Mode".

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 **Bluetooth Speaker** List.

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

Game Mode

You can enable game mode to optimise the TV's settings for playing video games with a gaming console, such as a PlayStation™, Xbox™ or Nintendo Switch™. To turn **Game Mode** on or off, press the Select button. To set the detailed options, press the up directional button, and then select **Go to Game Mode Settings**.

- For more information about Game Mode, refer to "Setting the Viewing Environment for External Devices".
- This function is only available when an external input source is being used.

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 to 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.

Picture Size

You can change to the picture size you want to view. To make fine adjustments, press the up directional button, and then select **Go to Picture Size**.

Colour Tone

You can select a colour tone suitable for your viewing preferences. To change to a colour tone that you want, press the Select button.

Auto Motion Plus

You can optimise pictures that contain a lot of motions. To turn this function on or off, press the Select button. To set the detailed options, press the up directional button, move to **Auto Motion Plus Settings**, and then press the Select button.

Contrast Enhancer

You can prevent excessive differences between bright and dark areas on the TV screen. To change the **Contrast Enhancer** setting, press the Select button.

• Digital Output Audio Format

You can select an output format for digital audio. Note that the **Dolby Digital+** option is only available via HDMI (ARC) for external devices that support the Dolby Digital+ format.

The HDMI (ARC) port may support eARC in some models.

Colour Space

You can set the spectrum of colours on the TV screen. To change to a colour space that you want, press the Select button. To set the detailed options, press the up directional button, and then select Colour Space Settings.

• TV Device Manager

You can run TV Device Manager to view at a glance and easily optimise the CPU usage, memory usage, and the storage space of the TV.

- Pressing Settings displays all setting menus available.
- These functions 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 for channels, programmes, movie titles, and apps from Smart Hub.

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

5 88 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

You can enhance your living space with decorative content that matches the surroundings or view essential real-time information such as weather, time, and news on the TV screen when you are not watching TV.

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 specific to QLED TV (except for Q50R model) and The Serif, it may not be supported depending on the model.
- For more information about the **Ambient Mode**, refer to "Using the Ambient Mode".

Universal Guide

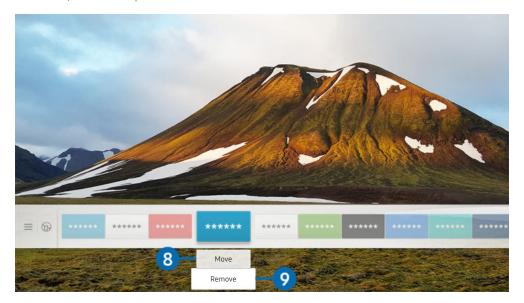
Universal Guide is an app that allows you to search for and enjoy various content such as TV shows, dramas, and movies in one place. **Universal Guide** can recommend content tailored to your preferences.

- For more information about 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.

√√Art

When you are not watching TV or when the TV is turned off, you can use the **Art** mode function to edit image content such as artworks or photos or to display the content.

- This function is supported only in The Frame.
- For more information, refer to the provided user manual.



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

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.

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 installed apps".

Launching Smart Hub automatically

♠ > ♦ Settings > General > Smart Features > Autorun Smart Hub

Using a Samsung account

Create and manage your own Samsung account.

Managing your Samsung account

⋒ > 🕸 Settings > General > System Manager > Samsung Account > My Account

When you sign in to your Samsung account, you can use the following functions:

Sign out

When multiple people share the TV, you can sign out of your account to prevent others from seeing it.

To sign out of your Samsung Account (> Settings > General > System Manager > Samsung Account), move the focus to your account's icon, and then press the Select button. When a pop-up window appears, select Sign out.

Edit profile

You can edit your account information.

Payment Info

You can view or manage your payment information.

Back up

You can back up the TV settings to your Samsung Cloud storage. When resetting or replacing the TV, you can also restore its settings with the backed-up settings.

Sync Internet

Once you sign in to your Samsung account and configure the Sync Internet settings, you can share the favourites and website bookmarks that you registered on other devices.

Remove Account

You can delete an account from the TV. Although you have deleted your Samsung account from the TV, you are not unsubscribed. To unsubscribe from your Samsung Account, visit the Samsung Accounts website (http:// account.samsung.com).

Terms & Conditions, Privacy Policy

You can view the user agreement and privacy policy.

Using the Ambient Mode

Learn about the functions available in Ambient Mode that are specific to the QLED TV (except for Q50R model) and The Serif.





Ambient Mode

You can enhance your living space with decorative content that matches the surroundings or view essential realtime information such as weather, time, and news on the TV screen when you are not watching TV.



Because this function is specific to QLED TV (except for Q50R model) and The Serif, it may not be supported depending on the model.

Entering Ambient Mode

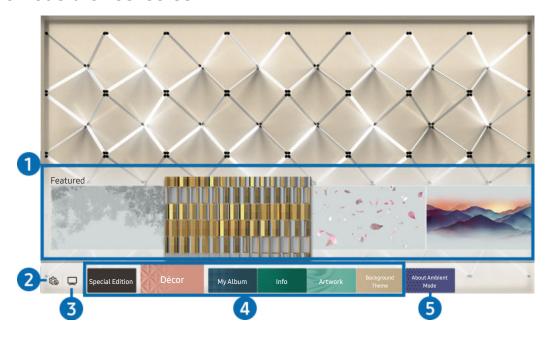
To enter Ambient Mode from the TV viewing screen, press the button, or select (> Ambient Mode.

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**.

Ambient Mode browser screen



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 at the bottom of the screen. In the Ambient Mode browser screen, you can select content and change the Ambient Mode settings.

1 Function and content preview

When you select a category at the bottom of the screen, a preview of available functions and content appears here.

To view detailed information about a content item, move the focus to it, and then press the up directional button.

2 Marbient Settings

You can configure the following Ambient Mode settings:

Auto Brightness

Changes 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 in response to the surrounding light level.

Sleep After

Sets the time when 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.

Reset All Photos

Resets the photos imported from your mobile device or Samsung Cloud.

3 TV

You can enter the TV viewing screen.

4 Selecting a content category

You can select your preferred content and background for the Ambient Mode screen.

Available content categories may differ depending on the model or geographical area.

Special Edition

Allows you to enjoy creative artwork and interior design content created by the world's finest artists and designers.

Décor

Allows you to select content with a sensible and beautiful design.

My Album

Allows you to set a photo stored in your mobile device or Samsung Cloud as the wallpaper of the **Ambient Mode** screen.

- To import photos from your mobile device or Samsung Cloud, use the SmartThings app on your mobile device.
- For more information about how to configure the photo settings, select **View Help**. This function is available after you select a photo in the **My Album** category.

Info

Allows you to select essential real-time information such as weather, temperature, time, and news.

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

Artwork

Allows you to select content such as world famous photos and artwork.

Background Theme

Allows you to select a background theme provided by Samsung.

- Take a picture of a wall using the SmartThings app on your mobile device to create a custom background theme.

 When you use this function, there may be a delay in image transmission and optimisation depending on network conditions.
- You can set a background theme you created as a background of a content item. To set a background theme as the background of a content item, press the down directional button while watching the **Ambient Mode** screen.

6 About Ambient Mode

You can view information about Ambient Mode.

Applying effects to the content

When you are enjoying content in **Ambient Mode**, press the down directional button to change the following settings for the content:

Available functions may not be supported depending on the content.

Backgrounds

Changes the background of the content.

- This function may not be supported depending on the content.
- You can use the SmartThings app on your mobile device to take a picture of a wall and create a custom background. For more information, select the **How-To** icon. This function may be a delay in image transmission and optimization depending on network conditions, and may not be supported depending on the model.

Shadow Effects

Applies a shadow effect that you select to the content.

This function may not be supported depending on the content.

Brightness

Adjusts the brightness of the content.

Saturation

Adjusts the saturation of the content.

Colour Tone

Adjusts the colours of the content.

• Red Tone / Green Tone / Blue Tone

Adjusts the red, green, blue contrast.

View detailed information about the content

When you are enjoying content in **Ambient Mode**, press the up directional button to view detailed information about the content.

Entering the TV viewing screen from Ambient Mode

To enter the TV viewing screen from Ambient Mode, press the button, or select TV in the Ambient Mode browser screen.

If you press the button when the TV is turned off, the TV viewing screen appears.

Using the Remote Access

Use the TV to access your PC via remote PC or Screen Sharing (Wireless).

You can use the TV to access your PC via remote PC or Screen Sharing (Wireless).

Before running this function, connect your keyboard and mouse to the TV.

Remote PC

Provides the same functionality as Windows Remote Desktop Connection. Enter the IP address of the remote access PC or select a profile. To remotely connect to a PC, you must enter a correct user name and password.

- To register a frequently used PC, move the focus to Ada, and then press the Select button. When a pop-up window appears, select Add, and then enter the PC information.
- To use this function, you must select **Allow remote connections to this computer** in advance on the Windows PC you want the TV to connect to.
- This function is only supported by a Professional or higher edition of Windows 7 or higher.

Screen Sharing (Wireless)

Follow the instructions on the screen to adjust the PC settings and wirelessly connect the TV to the PC.

- This function is only available for PCs that support wireless screen sharing.
- This function is supported by Windows 10.

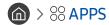
Office 365

Provides access to Office 365 features from Microsoft.

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

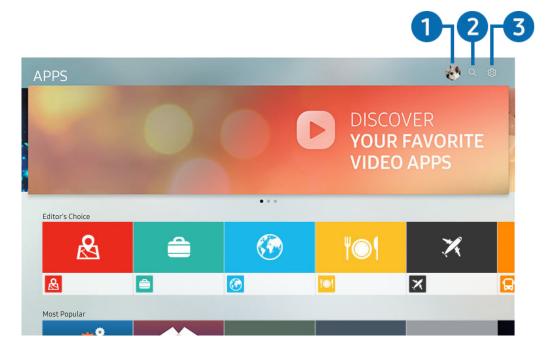
Using the APPS Service

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 🖒 Samsung Account

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

- If you are signed out of your Samsung account, select Sign In to sign in.
- 🙋 If you want to download new apps using APPS, first sign in to your Samsung account.
- 2 Q App Search

You can search for available apps.

③ ፟ Settings

You can manage the installed apps.

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

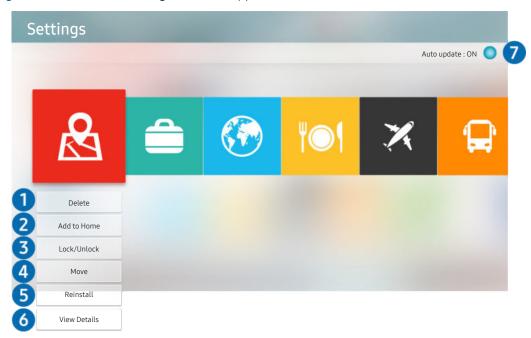
You can run the app desired from **Downloaded App**.

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

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

Managing 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.
- Standard apps cannot be uninstalled.

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.

If the selected app is already added to the Home Screen, this function is disabled.

3 Locking and unlocking apps

- 1. Move the focus to an app to lock or unlock.
- 2. 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 View Details screen.

Automatically updating apps

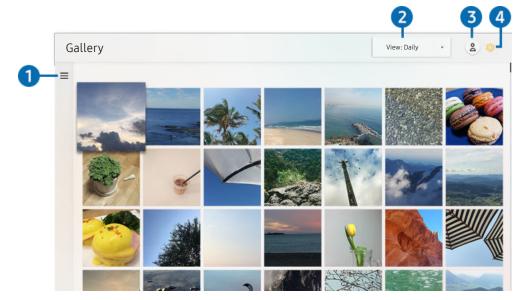
To automatically update the installed apps, set Auto update to ON.

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 that uses the Samsung Cloud.
- To use this function, the PIN number is required.

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.

Samsung Account

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

🙋 If you are signed out of your Samsung account, select 🛆 Sign In to sign in.

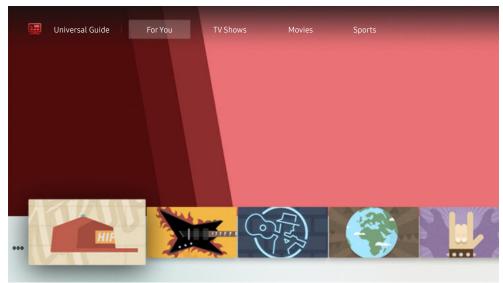
4 SG Gallery Settings

Set a PIN for screen lock to restrict access to the Gallery app, or view the terms and condition.

Using the Universal Guide App

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

♠ > ☐ Universal Guide



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, and movies in one place. **Universal Guide** can recommend content tailored to your preferences.

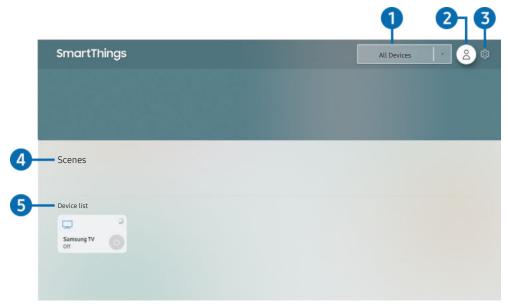
You can use this feature on your mobile device with the Samsung SmartThings app.

- 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.
- Some content may be restricted depending on your network conditions and your subscriptions to paid channels.
- Parental control is necessary when children use this service.
- 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 connected 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 Samsung Account

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

If you are signed out of your Samsung account, select Sign In to sign in.

③ Settings

Turn notifications on or off for the connected smart devices.

4 Scenes

Control multiple devices with one command after setting scenes via the SmartThings app on your mobile device.

5 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 device. Please refer to the user guide in the SmartThings app on your mobile device for more details.

Using the e-Manual

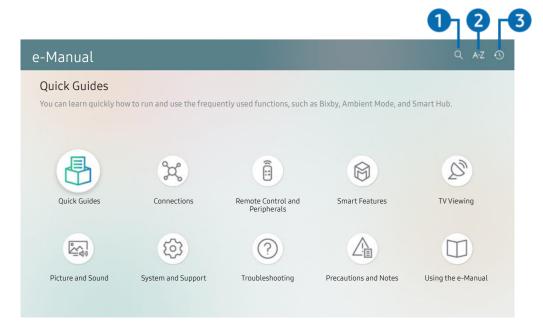
Control and read the manual embedded in your TV.

Launching the e-Manual

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

- You can download a copy of the e-Manual from Samsung's website to view or print on your PC or mobile device (http://www.samsung.com).
- Some menu screens cannot be accessed from the e-Manual.

Using the buttons in the e-Manual



- The image on your TV may differ from the image above depending on the model and geographical area.
- 1 Q (Search)

Select an item from the search results to load the corresponding page.

2 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.



- Words in blue (e.g., Internet) indicate a menu item.
- The image on your TV may differ from the image above depending on the model and geographical area.
- 4 (Try Now)

Allows you to access the corresponding menu item and try out the feature right away.

6 (Link)

Access an underlined topic referred to on an e-Manual page immediately.

Using the Internet

Surf the Internet on your TV.

> Internet

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 on the Samsung Smart Remote.
- The web pages may differ from those on a PC.
- Before using the Internet, refer to "Read Before Using the Internet Function".

Playing pictures/video/music

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



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 multimedia content on a PC or mobile device

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

The selected content is played.

- 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.

Playing multimedia content on a USB device

- 1. Connect a USB device to the USB port.
- 2. When a pop up message appears on the screen, select **Browse** to easily move to the list of multimedia content stored on the device.
 - If a USB device that contains the content you want to play is already connected to the TV, select the USB device in the Source screen.
- 3. Select a content item to play from the list.

The selected content is played back.

Listening to your mobile device sound through the TV speaker using Sound Mirroring

- 1. Search for and connect to your TV from the $\frac{1}{2}$ (Bluetooth) device list on your mobile device.
- 2. Select media content to play on your mobile device.

The selected contents media is played through the TV speaker.

- In some models, Ambient Mode or Art mode is entered automatically, and then the selected media content is played.
- This function may not be supported depending on the model.
- If the TV and the sound bar are connected wirelessly, the operation may be restricted.

Buttons and functions available while playing multimedia content

Press the Select button while playing any video, photo, or recorded content. The following buttons appear.

The provided buttons and functions may not be supported depending on the model or geographical area.

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.

- 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.

Stop

Stop the contents being played.

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 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.

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.

When 360 Auto Rotation is focused, press the Select button to change to the following modes:

- General
- Dynamic
- Natural
- This function is only available when **360 Mode** is selected.
- Even if you watch the same video file in the same **360 Auto Rotation** mode, the current effect of this function may differ a little from the previous effects.
- The video's viewing angle is not automatically adjusted 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.

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 music files with the screen off.

Fit to Screen

Fits a photo to the screen.

• Rotate left / Rotate right

Rotates a photo left or right.

Zoom

Zooms in a photo.

• Background Music

Pauses or resumes the background music while the TV displays photos.

Options

The available options may differ with the model and content.

Function	Description
Slideshow Speed	Sets the slideshow speed. If there is only one image file in the USB device, the slide show is not played.
Slideshow Effect	Applies transition effects to the slide show. If there is only one image file in the USB device, the slide show is not played.
Background Music	Plays background music as you set in the pop-up window 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	You can set the detailed subtitle options such as the language, sync, size, and colour. If subtitles are not displayed correctly, check the encoding setting.
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.

Using Bixby

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

- Bixby is available only when the TV is connected to the Internet.
- To use Bixby, you must register and sign in to your Samsung account. Some functions may not be supported if you are not signed in to your Samsung account.
- Bixby only supports some languages, and the supported functions may differ depending on the geographical area.
- Bixby may not be supported depending on the model or geographical area.

Starting Bixby with voice

You can immediately start a conversation with Bixby by saying "Hi, Bixby". Say "Hi, Bixby", and the Bixby icon at the bottom of the TV screen is activated in Listen mode. Continue speaking. If Bixby does not respond to your voice, turn on the Voice Wake-up function, and then try again. (> Explore Now > Settings > Voice Wake-up)

This function may not be supported depending on the model.

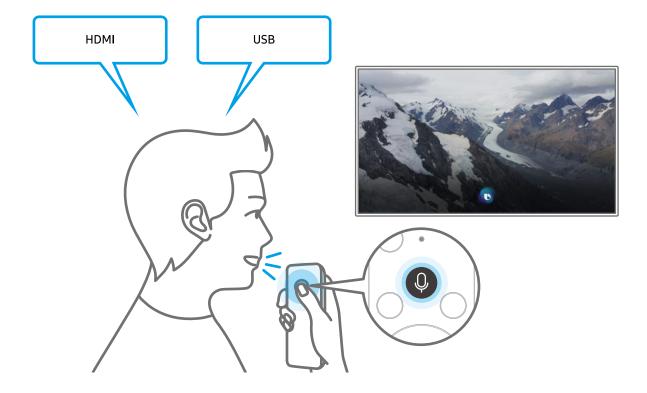
Starting Bixby using buttons on the Samsung Smart Remote

You can also have a conversation with Bixby using the Samsung Smart Remote buttons. Press and hold the button on your Samsung Smart Remote, say a command, and then release the **1** button.

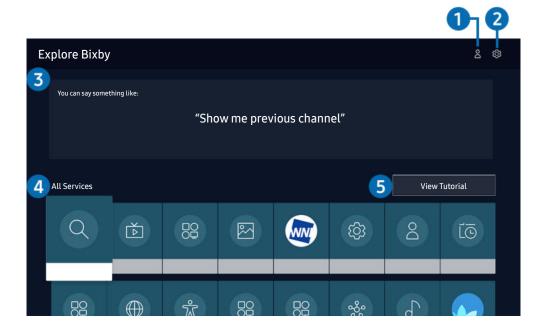


To view the Bixby guide, press the **U** button once:

When you press the U button, the Explore Now button appears at the bottom of the screen. Press the Select button to go to the Explore Bixby screen.



Learning about the Explore Bixby Screen



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

1 A My Profile

Go to the My Profile screen to create a new account or register a voice ID. Sign in to your account with your voice, that is, your registered voice ID.

If you are signed out of your Samsung account, select
 My Profile to sign in.

2 Settings

You can change the settings for using Bixby.

These functions may not be supported depending on the model or geographical area.

Language

You can change Bixby's language.

- The languages of the TV and other apps will not change.
- Bixby only supports some languages.

Voice response

You can change or turn off Bixby's voice.

This function may not be supported depending on the language selected for Bixby.

Voice Wake-up

You can configure this function to make Bixby respond to your voice.

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

Sound feedback

Play a sound when Bixby starts and stops listening.

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

Privacy

You can permit or prohibit Bixby from utilising your personal information when you are using Bixby services.

Recommended commands

Displays recommended commands you can use to control the TV with Bixby given the current context.

4 All Services

You can learn the voice commands that let you use Bixby 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.

5 View Tutorial

The popup window on using Bixby appears.

Read Before Using Bixby

- 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.
- Bixby 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 Bixby server error.

- The existing functional specifications may be changed if Bixby is updated.
- Bixby 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 Reset (> Settings > General > Reset).

Move the focus to the programme you want in the **Guide**, and then press and hold the Select button. You can use the following 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.

Stop

You can stop the recording function that is currently running.

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.

Schedule Viewing

You can schedule the viewing of a broadcast scheduled programme.

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

Schedule Recording

You can schedule recording of a broadcast scheduled programme.

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

• 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 or may not be provided depending on the broadcast signal.

To move to the Channel Filter, Schedule Manager, or Aerial Type screen: Press the 3 or button. (If the remote control button is 3, 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 the TV receives.

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

These functions may not be supported in the **Guide** 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 Pappears next to the programmes that have been configured for a scheduled viewing.
- 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.

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

To activate the Record function while watching TV, press the button twice or press the button once. Afterwards press the Select button and then select Record.

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



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**.
 - 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.
- Delete

You can delete scheduled recordings.

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

View Details

You can view detailed information about scheduled recordings.

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.

Move the focus to the recorded file, and then view Play, Delete or View Details on the right menu.

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

Setting up a schedule recording start



\(\text{\text{Live TV} > Schedule Manager or Recordings > Settings \)

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 papears 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).

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 while watching a programme

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



\(\text{\text{Live TV} > Schedule Manager or Recordings > Schedules > Add Viewing \)

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

Setting the Schedule Viewing Time



\(\text{\text{Live TV}} \rightarrow \text{Schedule Manager or Recordings} \rightarrow \text{Schedules} \)

You can change scheduled viewing information or cancel scheduled viewings.

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

You can set up a maximum total of 30 Schedule Viewing and Schedule Recording entries.

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 to up to 10 minutes before the programme.

Delete

You can delete scheduled viewings.

View Details

You can view detailed information about scheduled viewings.

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.

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.

Stop Recording / Stop Timeshift

Ends the recording or Timeshift function.

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.

• 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.

Go to Live TV

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

Info

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

Using the Channel List

Change the channel or check programmes on other digital channels.

> Live TV > Channel List

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 Channel List screen contains the following icons:

- − ■: A favourite channel
- A locked channel.
- E: CI card required 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.

The channels received to the currently selected **Terrestrial**, **Cable**, or **Satellite** are displayed.

Samsung 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 Samsung 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
- 1 : A locked channel.
- : CI card required channel.

On the Edit Channels screen, you can select channels and use the following functions:

Delete

After selecting a target channel to remove in **Edit Channels**, select **Delete**. Removed channels are not displayed in the **Channel List**.

Lock / Unlock

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 use this function or set the password, set > Settings > Broadcasting > Apply Channel Lock to On.
- For more information about how to set your password, refer to "Setting up a password".

Rename channel

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

- You can rename only one channel at a time.
- 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 Samsung TV Plus

You can restore the deleted Samsung TV Plus channels.

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

Exit

Closes the Edit Channels screen.

Using 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.

Viewing and selecting channels on Favourites list 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.

If you select an empty favourites list, you are moved to the Edit Favourites screen.

Create a favourites list

- - (Add to Favourites)

Selects one or more channels from a list of all channels to add to a favourites list.

• (Remove from Favourites)

Removes one or more channels from a favourites list.

• Change order

Changes the order of one or more channels selected in a favourites list.

Rename Favourites

Renames a favourites list.

Exit

Closes the Edit Favourites screen.

TV-Viewing Support Functions

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

Changing the broadcast signal



Press the right directional button on your remote control, move the focus to Terrestrial, Cable, Satellite, or Service Provider and then press the Select button.

- You do not need to use this function if your TV is connected to a cable box or satellite box.
- The displayed Channel List may vary depending on the incoming broadcast signals.

Scanning for available channels

- ♠ > In Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning
- 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

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

♠ > ☼ Settings > Broadcasting > (Auto Tuning Settings) > Wake-up Timer

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

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





Showing common interface menu



♠ > ♦ Settings > Broadcasting > Common Interface

You can view information about common interfaces.

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

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.

Configuring advanced broadcasting settings



♠ > ♦ Settings > Broadcasting > Expert Settings



Tuning broadcast signals manually



Enabling/Disabling 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

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, channel or geographical area.

Selecting the broadcast audio language





Adaptive Volume

Automatically adjusts to a specific volume level while you are watching TV. The TV analyses your volume usage history by time period to automatically adjust the volume when you use an app or switch to an external input source.

- This function is only available when the sound output of the TV is set to TV Speaker.
- This function may not be supported by some apps or external devices.
- This function's operation affects **Auto Volume** function, but it does not work the other way around.
- This function operates based on your volume usage history, and may not operate if the volume usage history by time period is insufficient.
- The amount of difference made by this function does not exceed +/- 5 levels from the current volume, and this function does not change the current volume if it exceeds 40.

Adjusting the Picture Quality

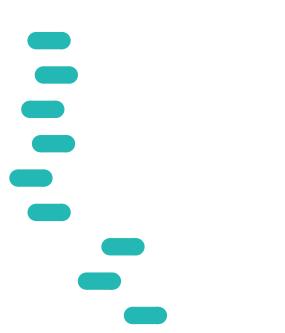
Change the Picture Mode and adjust Expert Settings.

Choosing a picture mode



Configuring advanced picture settings





Film Mode



Setting the Game Mode details

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

These functions may not be supported depending on the model.

Game Enhancer

You can make your games more immersive by using intense, vivid picture quality and three-dimensional sound optimised for games.

• Dynamic Black Equalizer

You can easily detect items or hidden enemies lurking in dark corners by improving visibility and object details in dark scenes without washing out colours and contrast in brighter scenes.

Game Motion Plus Settings

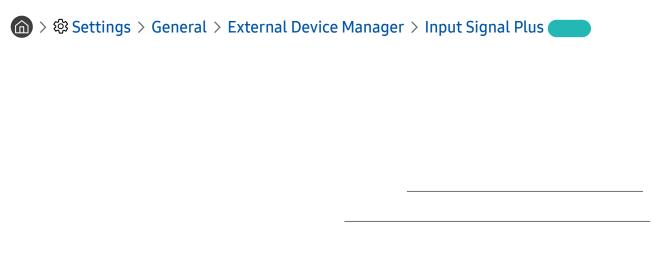
You can configure the Game Motion Plus settings.

FreeSync

You can make your gaming experience more pleasant by eliminating screen tearing and stuttering.

- Be sure to set this function only for the external devices that support the AMD Radeon FreeSync feature.
- 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 operating 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 Basic or Ultimate.

Using Input Signal Plus



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 Size

Configuring a Sound Mode and Expert Settings

Change the Sound Mode and adjust Expert Settings.

Choosing a sound mode







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.



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**.



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

GMT

Selects your time zone.

DST

Automatically adjust for Daylight Saving Time (DST).

Changing the current time

Time Offset adjusts the time through a network connection.

This function is available only when **Clock Mode** is set to **Auto**, the TV fails to receive time information through normal broadcast signals, and the TV is connected to the Internet through a local area network.

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.

- This function may not be supported in some viewing modes.
- This function may not be supported depending on the model or geographical area.

Turning off the TV using the off timer

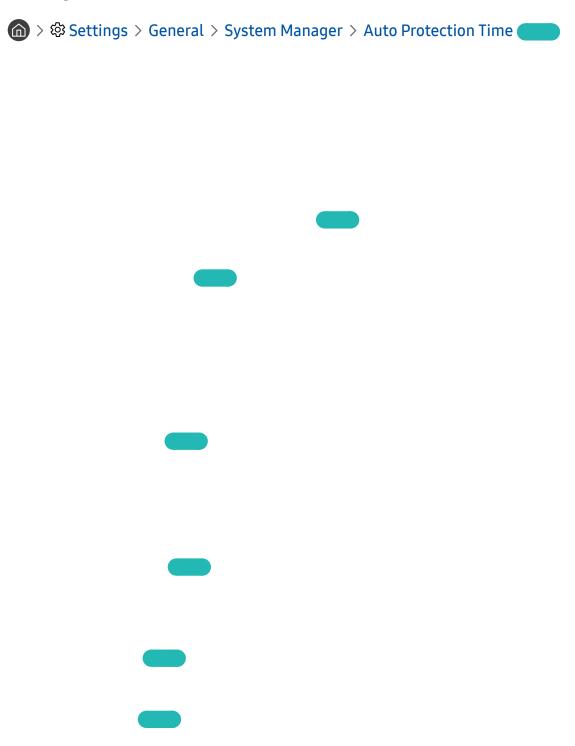
You can set **Off Timer** to shut off the TV automatically at a specific time. **Off Timer** is only available if the **Clock** has been set.

To use this function, first set the Clock (Settings > General > System Manager > Time > Clock).

Using the Auto Protection Time and Energy Saving Functions

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

Setting the Auto Protection Time



Updating the TV's Software

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

⚠ 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.



Protecting the TV from Hacking and Malicious Code

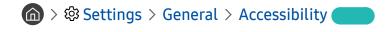
Protect your TV from hacking attempts and malicious code.



Audio and Video Functions for the Visually or Hearing Impaired

You can configure the functions for the visually or hearing impaired.

Running the accessibility functions



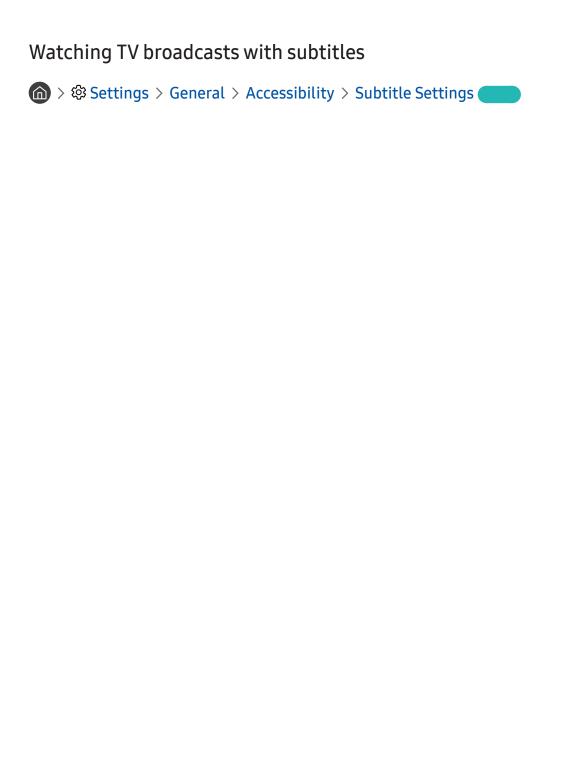
Changing the volume, speed, and pitch of the Voice Guide

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

Audio Description



Inverting the screen colour



Enlarging the sign language screen for the hearing impaired

Selecting Usage or Retail Mode



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.)

You can use the following functions:

- HbbTV: Enable or disable data services.
- Do Not Track: Ask apps and services not to track your browsing activity.
- Private Browsing: Enable Private Browsing to stop the browser from saving your Internet history.
- Delete Browsing Data: Delete all saved Cookies.

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 3 or 123 button for over1 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")

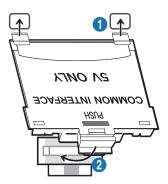
Watches paid channels by inserting your TV Viewing Card ("CI or CI+ Card") into the COMMON INTERFACE slot.

- 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 "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

Only for models with Common interface slot.

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 above 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"

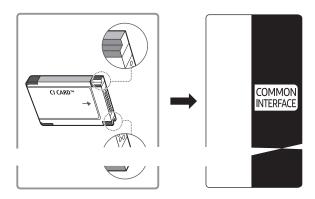
Connect the "CI or CI+ Card" to the COMMON INTERFACE slot as shown in the image below.



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

Only for models with 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 Samsung TV 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 Samsung TV 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 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 an authorised dealer to find out if "CI or CI+ CARD" is supported in your locality.
- 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 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 ATX/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.

To change the Teletext page,
On the Samsung Smart Remote: Press the numeric button on the virtual numeric pad.
On the standard remote control: Press the numeric button.

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.
- (EX) Cancel: Shrinks the Teletext display to overlap with the current broadcast. To undo, press it again.

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 $\ \ \ \ \ \ \ \ \ \$ 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.
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(Ei) 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.

(≦•1) CH ∧

Page Up: Displays the next Teletext page.

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.

■ AD/SUBT.



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.

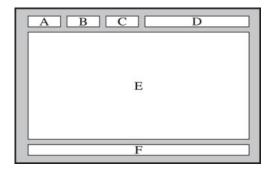
■ RETURN

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. To undo, press it again.

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.

The problem	Try this!
Blurring, or Juddering	If you notice blurring or juddering on the screen, use the Auto Motion Plus Settings function to resolve the issue. • 🝙 > 🐯 Settings > Picture > Expert Settings > Auto Motion Plus Settings
Unwanted Powering Off	If your TV appears to turn off by itself, try disabling some of the TV's energy efficiency functions. See if Sleep Timer has been enabled. The Sleep Timer automatically turns the TV off after a specified period of time. •
Problems Powering On	If you are having problems powering on your TV, there are a number of things to check before calling the service department. 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.
Unable to find a Channel	If your TV is not connected to a cable box or satellite box, run Auto Tuning. • 🔞 > 🐯 Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning • The Auto Tuning Settings may not appear depending on the model or geographical area.
The TV image does not look as good as it did in the store.	Store displays are tuned to a digital UHD channel or HD channel. If you are using analogue cable, upgrade to digital cable. If you use an analogue cable box or satellite box, upgrade to a digital cable box or satellite box and adjust the digital cable box and satellite box's video output resolution to UHD or HD. Be sure to use an HDMI cable to enjoy high quality videos. To connect the TV with your PC, make sure that your PC's graphic card supports UHD resolutions. For more information about the supported UHD resolutions, refer to "Supported Resolutions for UHD Input Signals".
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 problem	Try this!
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

Sound and Noise Issues

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

Testing the sound



The problem	Try this!
The speakers are making an odd sound.	Run Start Sound Test. • (a) > (3) Settings > Support > Self Diagnosis > Start Sound Test 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.
The sound is interrupted.	The sound may frequently be interrupted when a Bluetooth speaker is used. Make sure that the Bluetooth speaker and the wireless access point are on a straight line, and the Bluetooth speaker is placed as close as possible to the TV. To minimise interruptions, we recommend a wireless access point that uses a 5 GHz frequency. If the problem persists, we recommend that you use a wired connection.
Whenever a function is used on the TV or the channel is changed, the TV voices the activity. The TV explains in voice-over the video scenes displayed on the screen.	Turn off the Voice Guide function in Voice Guide Settings. •
The TV audio is not being played through the AV receiver.	Connect an optical cable to the TV and the AV 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 AV receiver that supports ARC. The HDMI (ARC) port may support eARC in some models.

Channel and Broadcast Issues

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.	Make sure that the external device is connected securely and turned on. Move to Sources to switch to other input sources. • ♠ Source > Sources
The TV is not receiving all channels.	Confirm that the coaxial cable is securely connected to the TV. Run Reset or Auto Tuning. • ♠ > ♦ Settings > General > Reset • ♠ > ♦ 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 Settings and turn on the Subtitle function, and then change the Subtitle Mode. • 🝙 > 🐯 Settings > General > Accessibility > Subtitle Settings Some channels may not have subtitle data.
Broadcasting is deactivated.	Broadcasting is only available when 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.

External Device Connectivity Issues

When the TV has difficulties connecting to external devices such as a PC, game console, or mobile device, these steps may help resolve the problem.

The problem	Try this!
The "Mode Not Supported" message appears.	Adjust the output resolution of the external device to 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 a DVI to HDMI cable, a separate audio cable is required. To listen to the computer sound, connect external speakers to the audio output connection of the computer.
How can I use Screen Mirroring?	To wirelessly connect the TV to your PC, read the instructions at PC > Screen Sharing (Wireless) in Connection Guide, and then try to connect. • ♠ > ► Source > Connection Guide > PC > Screen Sharing (Wireless) Confirm that the TV and your PC are connected to the same wireless network. To wirelessly connect the TV to your mobile device, read the instructions at Smartphone > Screen Sharing (Smart View) in Connection Guide, and then try to connect. • ♠ > ► Source > Connection Guide > Smartphone > Screen Sharing (Smart View) If the TV has difficulties connecting to your PC or mobile device due to surrounding radio interferences, change the frequency of the wireless access band, and then try to connect.
No screen appears when connecting the TV to an external device.	For more information about how to connect an external device, run Connection Guide. •

Network Issues

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





Anynet+ (HDMI-CEC) Issues

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

The problem	Try this!
What is Anynet+?	You can use the TV's remote control to control external devices that support Anynet+ (HDMI-CEC) and that are connected to the TV via an HDMI cable. For example, if a connected external device supports Anynet+, you can have the connected device turn on or off when you turn the TV on or off.
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) > (a) 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+. I also want the connected devices to turn on when the TV is turned on.	Move the focus to the Anynet+ device at > Source, press the up directional button to move to Anynet+ (HDMI-CEC), and then press the Select button. Check if the Anynet+ device is properly connected to the TV, and then select Anynet+ (HDMI-CEC) menu to see if Anynet+ (HDMI-CEC) is set to On. •
I want to exit Anynet+. I also do not want the connected devices to turn on and off when the TV is turned on or off.	Turn off the Anynet+ (HDMI-CEC) function. •
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 the TV viewing screen. Use the remote control after the TV has completed the Anynet+ configuration or has switched to the TV viewing screen.
The Anynet+ device won't play.	You cannot use the play function when Reset is in progress.

The problem	Try this!
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. •

Remote Control Issues

When the remote control isn't working, these steps may help resolve the problem.

The problem	Try this!
The remote control does not work.	The connection between the Samsung Smart Remote and the TV may be lost. Point the Samsung Smart Remote at the front of the TV, and then press and hold the and buttons simultaneously for 3 seconds or more. Also, if the remote control is not working or slow, the batteries might be low or dead. If this is the case, replace the batteries. Alkaline batteries are recommended for longer battery life.
The remote control batteries run out quickly.	The batteries may be consumed quickly if the remote control is used very frequently or the Voice Wake-up function is turned on. You can extend the battery life by turning off the Voice Wake-up function. Explore Now > Settings > Voice Wake-up The Voice Wake-up function may not be supported depending on the model or geographical area.

Recording Issues

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

The problem	Try this!
The Timeshift or recording function cannot be used.	Check if there is a storage device connected to the TV. Recording will automatically stop if the signal becomes too weak. Check the free space on the storage device. The function will not work if there isn't enough storage space on the storage device. Before using the recording function, be sure to read all precautions. For more information, refer to "Before Using the Recording and Timeshift Functions".
Cannot record videos received from an external device or Samsung TV Plus.	The recording function is only available for digital broadcast channels received by the TV. You cannot record videos received from an external device or Samsung TV Plus.
The "Format Device" message appears when the Timeshift or recording function is used.	To use the recording function, the storage device connected to the TV must have been already formatted. Formatting the storage device deletes all data from it, and the storage device is formatted in NTFS.
The recorded files on the TV are not played back on a PC.	The recorded files on the TV can only be played back on the same TV. Those video files cannot be played back on a PC or other TV.



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

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 an app may be different from the TV Language set in the menu. The ability to change the language depends on the app's provider.		
My application is not working.	The services of your application are not provided by the TV but by the application service provider. Refer to the Help section on the application service provider's website.		

Media Files

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

The problem	Try this!		
Some files are interrupted during playback.	This problem may occur with unsupported files or high-bitrate files. Most files can be played back, but some files may not play smoothly.		
Some files can't be played.	Some files that use an unsupported codec may not be played back. Make sure that the codec is supported by the TV. For more information about the supported codecs, refer to "Read Before Playing Photo, Video, or Music Files".		

Voice Recognition Issues

When the voice recognition or Bixby functions aren't working, these steps may help resolve the problem.

6

The Voice Wake-up function may not be supported depending on the model or geographical area.

The problem	Try this!			
Bixby answers automatically.	The TV may recognise an ambient noise or everyday conversation as a call to Bixby. Turn off the Voice Wake-up function or set the sensitivity to Low. • ② > Explore Now > ③ Settings > Voice Wake-up			
l spoke " Hi, Bixby " but Bixby does not answer.	 The Samsung Smart Remote may not recognise your voice when it is far away from you, turned upside down, or located in an environment with loud ambient noise. Use the Samsung Smart Remote less than 2 feet (1.5 m) with the remote control buttons facing upward. (There is a built-in microphone on the front of the Samsung Smart Remote.) Do not place the Samsung Smart Remote near the TV speaker or an audio speaker. Turn on the Voice Wake-up function. Description Settings > Voice Wake-up 			

Other issues

Use these procedures to resolve other issues that may occur in relation to the product.

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 problem	Try this!			
The TV smells of plastic.	This smell is normal and will dissipate over time.			
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			
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.			
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.			
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.			
The TV is making a humming noise.	Your TV utilises high-speed switching circuits and high levels of electrical current. Depending on the TV's brightness level, the TV may seem slightly noisier than a conventional TV. Your TV has undergone strict quality control procedures that meet our demanding performance and reliability requirements. Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund.			
The software update over the Internet has failed.	Check the network connection status. •			

Diagnosing TV operational issues

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



Getting Support

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

Getting support through Remote Management



- 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 Sleep 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.

 - ⋒ > ۞ 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	
	Mono	Mono	Automatic change	
A2 Stereo	Stereo	Stereo, Mono	Automatic change	
	Dual	Dual I, Dual II	Dual I	
	Mono	Mono	Automatic change	
NICAM Stereo	Stereo	Mono, Stereo	Automatic change	
	NICAM Dual	Mono, NICAM Dual-1, NICAM Dual-2	NICAM Dual-1	

- 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.

- If you want to download new apps using APPS, first sign in to your Samsung account.
- 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 Function

Read this information before using the Internet.

- File download is not supported.
- The Internet function may not be able to access certain websites, including websites operated by certain companies.
- The TV does not support playback of flash videos.
- E-commerce for online purchases is not supported.
- 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 depending on the status of the participating systems.
- 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 is limited.
- 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.
- Browsing history is saved from latest to oldest, with the oldest entries being overwritten first.
- Depending on the types of video/audio codecs supported, you may not be able to play certain HTML5 video and audio files.
- Video sources from PC-optimised streaming service providers may not play properly on our proprietary Internet browser.

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 or geographical area
- To use wireless Internet, the TV must be connected to a wireless access point or modem. If the wireless access point 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 access point. If the channel set is currently being
 used by the wireless access point to communicate with 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 access point.

Wireless security protocols

The TV only supports the following wireless network security protocols. The TV cannot connect to non-certified wireless access point.

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

In compliance with the 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 access point 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



Supported subtitles

Subtitle formats

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	

Video formats with 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	JPEG	15360 x 8640
*.png	PNG	4096 x 4096
*.bmp	ВМР	4096 x 4096
*.mpo	MPO	15360 x 8640



The MPO format is supported partly.

Supported music formats and codecs

File extension	Format	Codec	Note
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	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. WMA lossless audio is not supported.
*.wav	wav	wav	
*.mid *.midi	midi	midi	Supports type 0 and type 1. Seek is not supported. Supports USB device only.
*.ape	ape	ape	
*.aif *.aiff	AIFF	AIFF	
*.m4a	ALAC	ALAC	

Supported video codecs (RU8 series or higher, QLED TV, The Serif, The Frame)

For Q50R model, refer to "Supported video codecs (Q50R model, RU7 series or lower)".

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		60		Dolby Digital LPCM ADPCM(IMA, MS) AAC HE-AAC WMA Dolby Digital+ MPEG(MP3)	
*.mp4 *.mov	AVI MKV	MPEG4 SP/ASP					
*.3gp *.vro	ASF MP4	Window Media Video v9 (VC1)					
*.mpg *.mpeg *.ts	3GP MOV FLV VRO VOB PS TS SVAF	MPEG2					
*.tp *.trp			MPEG1	1920 x 1080		20	MPEG-H AC-4
*.flv		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	*.webm WebM	VP8	1920 x 1080	60	20	Vorbis	
		VP9 (Profile 0, profile 2 supported)	3840 x 2160	3840 x 2160: 60	80		
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6	

Supported video codecs (Q50R model, RU7 series or lower)

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs
		H.264 BP/MP/HP 40		4096 x 2160: 30 3840 x 2160: 60	60	
		HEVC (H.265 - Main, Main10)	3840 x 2160	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 HE-AAC WMA Dolby Digital+ MPEG(MP3) MPEG-H AC-4 G.711(A-Law, µ-Law)
*.3gp *.vro	ASF MP4	Window Media Video v9 (VC1)		60		
*.mpg *.mpeg *.ts	*.mpeg MOV	MPEG2				
*.tp *.trp	VRO VOB	MPEG1	1920 x 1080		20	
*.flv	PS TS	Microsoft MPEG-4 v1, v2, v3		30		
*.vob *.svi	SVAF	Window Media Video v7 (WMV1), v8 (WMV2)				OPUS
*.m2ts *.mts		H.263 Sorrenson				
		VP6				
*.webm	WebM	VP8	1920 x 1080	60	20	Vorbis
		VP9 (Profile 0, profile 2 supported)	3840 x 2160	3840 x 2160: 60	80	
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	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, and HEVC FHD is supported up to Level 4.1.
- 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.
- 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+ 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.

Supported video codecs (Q900RB model)

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs
	_	H.264 BP/MP/HP	H.264 BP/MP/HP 4096 x 2160 4096 3840		60	
		HEVC (H.265 - Main, Main10)	7680 x 4320	60	100	
*.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 HE-AAC WMA Dolby Digital+ MPEG(MP3) MPEG-H AC-4 G.711(A-Law, µ-Law)
*.3gp *.vro	ASF MP4	Window Media Video v9 (VC1)		60		
*.mpg *.mpeg *.ts	3GP MOV FLV	MPEG2				
*.tp *.trp	VRO VOB	MPEG1	1920 x 1080		20	
*.flv	PS TS	Microsoft MPEG-4 v1, v2, v3		30		
*.vob *.svi	SVAF	Window Media Video v7 (WMV1), v8 (WMV2)				OPUS
*.m2ts *.mts		H.263 Sorrenson				
		VP6				
*.webm	WebM	VP8	1920 x 1080	60	20	Vorbis
		VP9 (Profile 0, profile 2 supported)	3840 x 2160	3840 x 2160: 60	80	
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6

Because the specifications are based on the current 8K connectivity and decoding standards, future connectivity, broadcasting, and decoding standards may not be supported. Upgrading for meeting future standards may require purchase of additional devices.

Some 3rd party standards may not be supported.

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, and HEVC FHD is supported up to Level 4.1.
- HEVC 8K is supported up to Level 6.1.
- 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.
- 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+ 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** is applied to the current source. The applied **Picture Size** will remain in effect whenever you select that source unless you change them.

Input signal	Picture size
Component	

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 \bigcirc icon 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 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

If Input Signal Plus 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 Input Signal Plus is set to On

• For One Connect unsupported models:

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

• For One Connect supported models:

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	0	0
	12 bit	-	-	0	0
120	10 bit	-	-	-	*0



^{*:} These specifications are supported for the HDMI 4 port.

Resolutions for Input Signals supported by Q900RB model

Check the resolutions for input signals supported by Q900RB model.

If Input Signal Plus is set to On

• 3840 x 2160

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	0	0
	12 bit	-	-	0	0
120	10 bit	*0	*0	*0	*0

*: These specifications are supported for the HDMI 4 port.

• 7680 x 4320

Fr	rame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
	24 / 30	8 bit / 10 bit	*0	*0	*0	*0
	50 / 60	8 bit / 10 bit	-	-	-	*0

1

*: These specifications are supported for the HDMI 4 port. Use an HDMI cable that supports these specifications.

Supported Resolutions for FreeSync

Check the supported resolutions for the FreeSync function.

- Settings of FreeSync mode: Off / Ultimate (48~120 Hz) / Basic (90~120 Hz)
 - The supported FreeSync modes may differ depending on the external device.
 - This function may not be supported depending on the model or geographical area.
- For One Connect unsupported models:

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
2560 x 1440	120 Hz	150.000	120.000	495.000	progressive

• For One Connect supported models:

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
2560 x 1440	120 Hz	150.000	120.000	495.000	progressive
3840 x 2160	60 Hz	135.000	60.000	594.000	progressive
4096 x 2160	60 Hz	135.000	60.000	594.000	progressive

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 pages. The TV will automatically adjust to the resolution you choose. Note that the optimal and recommended resolutions are 3840×2160 at 60 Hz (UHD model series) and 7680×4320 at 60 Hz (Q900RB model). 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 resolutions are 3840 x 2160 at 60 Hz (UHD model series) and 7680 x 4320 at 60 Hz (Q900RB model) with the **Input Signal Plus** set to **On**. The native resolution is 3840 x 2160 at 30 Hz with the **Input Signal Plus** 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	+/+
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	60 Hz	88.787	59.951	241.500	+/-
2560 x 1440	120 Hz	192.996	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)
*1920 x 1080	100 Hz	112.500	100.000	297.000	+/+
*1920 x 1080	120 Hz	135.000	120.003	297.000	+/+
3840 x 2160	30 Hz	67.500	30.000	297.000	-/-
*3840 x 2160	60 Hz	135.000	60.000	594.000	-/-
*3840 x 2160	100 Hz	225.000	100.000	1188.000	+/+
*3840 x 2160	120 Hz	270.000	120.000	1188.000	+/+
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	+/+
*4096 x 2160	100 Hz	225.000	100.000	1188.000	+/+
*4096 x 2160	120 Hz	270.000	120.000	1188.000	+/+
*7680 x 4320	24 Hz	108.000	24.000	1188.000	+/+
*7680 x 4320	30 Hz	132.000	30.000	1188.000	+/+
*7680 x 4320	50 Hz	220.000	50.000	2376.000	+/+
*7680 x 4320	60 Hz	264.000	60.000	2376.000	+/+

^{*:} 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	100 Hz	112.500	100.000	297.000	+/+
*1920 x 1080	120 Hz	135.000	120.003	297.000	+/+
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	+/+
*3840 x 2160	50 Hz	112.500	50.000	594.000	+/+
*3840 x 2160	60 Hz	135.000	60.000	594.000	+/+
*3840 x 2160	100 Hz	225.000	100.000	1188.000	+/+
*3840 x 2160	120 Hz	270.000	120.000	1188.000	+/+

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
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	+/+
*4096 x 2160	100 Hz	225.000	100.000	1188.000	+/+
*4096 x 2160	120 Hz	270.000	120.000	1188.000	+/+
*7680 x 4320	24 Hz	108.000	24.000	1188.000	+/+
*7680 x 4320	30 Hz	132.000	30.000	1188.000	+/+
*7680 x 4320	50 Hz	220.000	50.000	2376.000	+/+
*7680 x 4320	60 Hz	264.000	60.000	2376.000	+/+



^{*:} The resolution may not be supported depending on the model.

VESA CVT

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
2560 x 1440	60 Hz	88.787	59.951	241.500	+/-
2560 x 1440	120 Hz	192.996	119.998	497.750	+/-



The resolution may not be supported depending on the model.

Read Before Using Bluetooth Devices

Read this information before using a Bluetooth device.

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
 - 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

The HDMI (ARC) port may support eARC in some models.

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

- If you press the postular button twice or press the button while viewing a programme, red, green, yellow, blue, and More options appear. Press the Select button. Then the Record, Timeshift, Stop (when Record or Timeshift is running), Info, and Move to the top (or Move to the bottom) options appear.
 - Select the Move to the top button to move the menu to the top.
 - This function may not be supported depending on the geographical area.
- Underneath these two buttons are a round button and a large outer circle button. The round button is the Select button, and the large outer circle button consists of 4 directional buttons (up / down / left / right).
- 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.
- 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.
 - You can use the **Slow Rewind** or **Slow Forward** functions when you select the **Pause** option.
 - To use Record or Timeshift, you must connect a USB device.
 - This function may not be supported depending on the model or geographical area.
- 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.

Using the accessibility menu

View how to running the Accessibility menu functions and description of its functions.



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

Running the Accessibility Shortcuts menu

You can turn on or turn off the accessibility functions such as Voice Guide, Audio Description, Subtitle, High Contrast, Enlarge, Greyscale, Colour Inversion, Learn TV Remote, Menu Learning Screen, Multi-output Audio, Sign Language Zoom, Slow Button Repeat, and you can move to the Learn TV Remote and Menu Learning Screen pages.

• Samsung Smart Remote

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 button. Press and hold the volume button to open the Accessibility Shortcuts menu.

Even if the **Voice Guide** is set to **Off** or muted, when you press and hold the volume button, the voice guide for **Accessibility Shortcuts** is enabled.

- Learn TV Remote and Menu Learning Screen are only available when Voice Guide is set to On.
- Standard remote control

Press the AD/SUBT. button or press and hold the MUTE button to open the Accessibility Shortcuts menu.

Running the Accessibility menu functions using the General menu

You can also go to the 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 the Select button to open the TV's Settings menu.
- 4. Press the down directional button to reach **General**, and then press the Select button to open this menu.
- 5. Use the directional buttons to go to the **Accessibility** menu, and then press the Select button to open this menu.
- 6. The menu will appear with **Voice Guide Settings** as the first selection. Highlight **Voice Guide Settings**, and then press the Select button.
- 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 the Select button.

Running the Accessibility menu functions using Bixby

To use Bixby, 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. You can use the Samsung Smart Remote but the TV must be connected to the Internet.

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".

Learning about the Accessibility menu functions

Voice Guide Settings

This function works on every screen on the TV and when turned on verbally tells you what the TV's current settings are and verbally provides details about the programme you are watching. For example, it tells you the selected volume and the current channel and gives you programme information. It also reads out the programme information from the **Guide** screen.

• Audio Description Settings

You can activate an audio guide that provides an audio description of video scenes for the visually impaired. This function is only available with broadcasts that provide this service.

High Contrast

To display all menus with an opaque black background and a white font, providing maximum contrast.

Greyscale

You can change the colour of the TV screen to black and white 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.

Colour Inversion

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

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

Enlarge

You can enlarge important elements on the menu 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.

Subtitle Settings

You can view the subtitle in programmes that provide broadcast subtitles.

Multi-output Audio

You can turn on both the TV speaker and Bluetooth headphone designed for the hearing impaired at the same time. The hearing impaired can then set the volume of their Bluetooth headphone higher than the volume of the TV speaker without affecting the volume of the TV speaker, allowing both the hearing impaired and their families to listen to the TV at comfortable sound levels.

- When you connect the Bluetooth headphone to the TV, Multi-output Audio is activated.
- This function may not be supported depending on the model or geographical area.

• Sign Language Zoom Settings

You can zoom in the sign language screen when the programme you are watching provides it.

• Remote Button Repeat Settings

You can configure the operation speed of the remote control buttons so that they slow down when you continually press and hold them.

Using the TV with Voice Guide on

Turn on Voice Guide that describes the menu options aloud to aid the visually impaired.

Changing channel

You can change the channel in three 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. The Smart Hub home screen appears. Use 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. When Channel List is displayed, use the up or down directional buttons to move to the desired channel, 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. Press the up or down of CH button on the standard remote control to change the channel.

Number button

Use the 123 or 123 button on the Samsung Smart Remote to open the virtual numeric pad, enter a number, and then select Done. On the standard remote control, press the numeric buttons to enter a channel number.

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 that the number strip is on screen and the focus is on the number 6. This strip has the following buttons:

- On the bottom row: From the far left: Colour pad, TTX/MIX, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, -(dash), Delete, Move to the top (or Move to the bottom)
 - The menus may not appear depending on the model or geographical area.
- 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 the Select button 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 the Select button 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

Point the Samsung Smart Remote at the remote control sensor of the TV, and then move the VOL button up or down to adjust the volume on the TV. Every time you change the volume, the new volume level will be announced.

- Samsung Smart Remote
 - 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.
- Standard remote control

Press the up or down of 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 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 Samsung Smart Remote. Use the directional buttons to view the programme information.

On standard remote control, press the GUIDE button.



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 Bixby. Press and hold the **O** button on your Samsung Smart Remote, and then say "**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 you need to set the clock again, follow the instructions below.

- 1. Press the fine button to open Smart Hub.
- 2. Press the left directional button to move to Statings.
- 3. Press the Select button to open the TV's Settings menu.
- 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 **Filter By**: **All** 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 at different times 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 124 button to move to the programme currently broadcasting.

When you move the focus to a programme, you will hear the detailed information about the selected 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.

Use the up and down directional buttons to move within this menu, and then press the Select button 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.

Stop

You can stop the recording function that is currently running.

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.

Schedule Viewing

You can schedule the viewing of a broadcast scheduled programme.

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 on **Schedule Recording**, refer to "Recording".

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 the Select button 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 contains 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.

Using Schedule Viewing

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

The (\infty 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

You can set up a schedule viewing on two screens.

• 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.

• Cancelling a scheduled viewing from the Guide

In 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.

- Cancelling a scheduled viewing from Smart Hub
 - 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 the Select button to open Schedule Manager or Recordings.
 - If the TV supports the **Recordings** function, press the directional buttons to move to **Schedules**.
 - 3. Use the down directional button to move to the list of programmes scheduled to view.
 - 4. 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. The Smart Hub home screen appears. Use 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 or 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, Samsung TV Plus, Favourites and Terrestrial, Cable, or Satellite. 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.
 - The channels received to the currently selected Terrestrial, Cable, or Satellite are displayed.

Samsung 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 Samsung 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 the Select button. 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.

Recording

Recording a programme to an external hard drive connected via USB.

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

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 the Select button to record the programme. You will be returned to the programme guide. Recording automatically ends at the time when the programme ends.

To stop recording, press the down directional button while the programme being recorded is displayed. The control bar appears. Move the focus to **Stop Recording**, and then press the Select button. When a popup window appears, select **Stop**.

To record a programme that is on later, move to the required programme in the **Guide**, and then press and hold the Select button. 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 then press and hold the Select button. You will hear a message saying the programme has been set to record and then you will return to the programme quide.

The Gicon 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 the Select button on the programme. If it is already set to record then the option on the menu will be Cancel Scheduled Recording. You can press the Select button to cancel the scheduled recording or just press button to go back to the programme guide without cancelling the recording.

Recording the programme you are watching

To display a menu for recording a programme or starting the Timeshift function, press the button twice or press the button and then press the Select 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 recording 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



\(\begin{aligned} \text{\text{}} > \text{Live TV} > \text{Schedule Manager or Recordings} > \text{Recordings}

Open the Smart Hub by pressing the n button on the remote control. Use the left or right directional button to move the focus to Live TV. Press the up directional button to move to the top row, and then use the left or right directional button to move to Recordings.

To play a programme use the up and down directional buttons to move between programme titles and then you can press the Select button 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, 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 the Select button.



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 the Select button.

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 the Select button 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 h button 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 in your Internet service.
- To use Smart Hub, you must agree to the Smart Hub service agreement and the collection and use of personal information. Without giving consent, you cannot use the additional features and services. 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, 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 Prime Video.

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 the Select button to access a menu or apps.

When the Smart Hub home screen appears, use the left or right directional button to move the focus to Live TV or Samsung 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 may include Guide, Channel List, Schedule Manager, Recordings, and others.

Using the Smart Hub home screen

At the leftmost part of the Smart Hub home screen is the static menu listed below. You can quickly and easily use the listed menu items to access the main TV settings or external devices, search, and apps.

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when a scheduled programme is about to be broadcast 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 containing the following functions, will **Delete All** and **Settings**.

☼ Settings

When the focus is moved to Settings, a list of quick settings icons appears above the top of the menu. You can quickly set frequently used functions by clicking the icons. You can set e-Manual, Intelligent Mode, Picture Mode, Sound Mode, Sound Output, Game Mode, Audio Language, Subtitle, PIP, Network, Picture Size, Colour Tone, Auto Motion Plus, Contrast Enhancer, Digital Output Audio Format, Colour Space, and TV Device Manager.

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, 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

You can enhance your living space with decorative content that matches the surroundings or view essential real-time information such as weather, time, and news on the TV screen when you are not watching TV.

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 specific to QLED TV (except for Q50R model) and The Serif, it may not be supported depending on the model.
- For more information about the **Ambient Mode**, refer to "Using the Ambient Mode".

Iniversal Guide

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

- For more information about **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.

• \sqrt{Art}

When you are not watching TV or when the TV is turned off, you can use the **Art** mode function to edit image content such as artworks or photos or to display the content.

- This function is supported only in The Frame.
- For more information, refer to the provided user manual.

Launching the e-Manual

Open the user manual embedded in your TV.

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 (http://www.samsung.com).
- Words in blue (e.g., Internet) 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 the Select button 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 Bixby

A guide to using Bixby to control your TV.

To use Bixby, your TV must be connected to the Internet and you must use the microphone on your Samsung Smart Remote.

To use Bixby, 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 Bixby.



Running Bixby

Press and hold the button on the Samsung Smart Remote. Bixby is activated in the listening mode, the Bixby icon appears at the bottom of the TV screen. 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 Explore Bixby. Press the button. The Explore Now button appears at the bottom of the screen. Press the Select button to go to the Explore Bixby screen.