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 Learn Menu Screen link below. "Learn Menu Screen" Link

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Guide

Learn how to use various features.

Connections

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

Connection Guide

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

 \bigcirc > = (left directional button) > \sim Connected Devices > Connection Guide (ry Now

It shows you how to connect various external devices, such as video devices, game consoles, and PCs using pictures. If you select the connection method and an external device, the connection details appear.

- Audio Device: HDMI (eARC/ARC), Optical/Audio Out, USB, Bluetooth, Wi-Fi
- Video Device: HDMI
- Smartphone: Screen Sharing (Smart View), Screen Sharing (Tap View), Samsung DeX, SmartThings, Camera Sharing, Apple AirPlay
- PC: HDMI, Screen Sharing (Wireless), Easy Connection to Screen, Apple AirPlay
- Input Device: Remote Control, USB Keyboard, USB Mouse, USB Gamepad, USB Camera, Bluetooth Device
- Game Console: HDMI

• External Storage: USB Flash Drive, Hard Disk Drive (HDD)

- The connection method and available external devices may differ depending on the model.
- Some functions may not be supported depending on the model or geographical area.
- Using HDMI Troubleshooting, you can check the connection to HDMI cable and external devices (takes approximately 2 minutes).

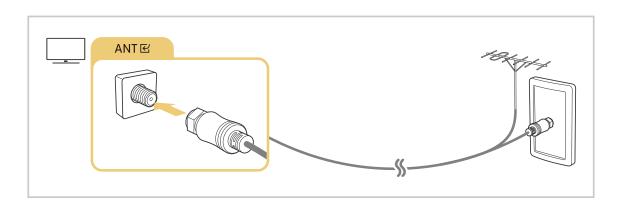
		Connection Guide
:	Audio Device	HDMI (eARC)
	Video Device	Optical
	Smartphone	USB
		Bluetooth
	PC	Wi-Fi
0	Input Device	HDMI Troubleshooting
A	Game Console	
	External Storage	Connect audio devices, such as speakers, soundbars, headphones, or home theaters, to TV.

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

Connecting an Antenna

You can connect a coaxial cable to your TV.

- ▲ An antenna connection is not necessary if you connect a cable box or satellite box.
 - Do not use excessive force when connecting the antenna cable; excessive force may cause deformation of the port.
 - To transport the product, first remove the antenna cable to prevent damage to the port.
- ℰ The port on your TV may differ from the following figure depending on the product model and region.



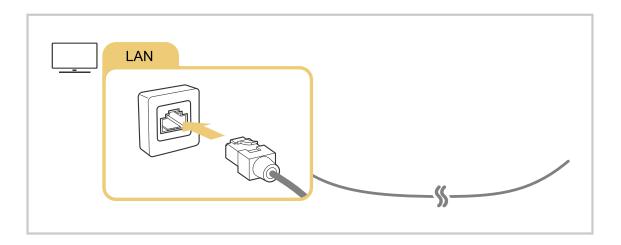
Connecting to the network

You can get access to the network through your TV.

Configure network settings to connect to an available network.

Establishing a wired network connection

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

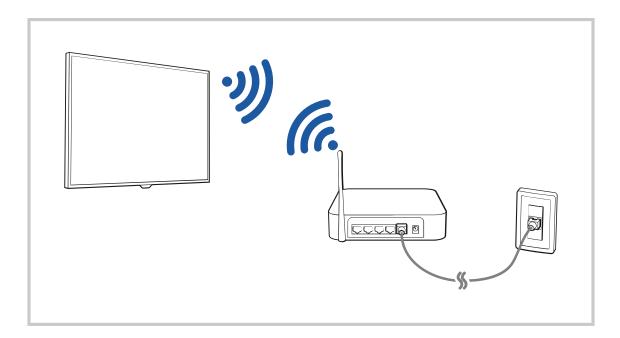


- 🧨 If the TV does not automatically connect to the network, refer to "Wired network connection failed." in "Troubleshooting."
- ✗ To connect a LAN cable, use a CAT 7 (*STP type) cable for the connection. (100/10 Mbps)
 - * Shielded Twisted Pair
- The TV will not be able to connect to the network if your network speed is below 10 Mbps.
- This function may not be supported depending on the model.
- Wired networks are not supported by some models.

Establishing a wireless network connection

$\textcircled{O} > \equiv$ (left directional button) > O Settings > All Settings > Connection > Network > Open Network Settings > Wireless

Make sure that you have the wireless access point's name (SSID) 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.



		Wireless Con	nection	
Sült	IC menual A	einelens network.		
	anadynable		_	
	ureally Refresh	Hanage Sevel Networks		

- 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.
- To disconnect Wi-Fi, select Disconnect in > = (left directional button) > Settings > All Settings > Connection > Network > Network Status. (ry Now)

Checking the network connection status

View the current network status.

Resetting Your Network

Restore the network settings to the factory default.

Turning on the TV with a mobile device

$\textcircled{O} > \equiv$ (left directional button) > O Settings > All Settings > Connection > Network > Expert Settings > Power On with Mobile (Try Now)

You can turn on the TV using a mobile device connected to the same network as the TV.

This function is available with a mobile device connected to the TV through the SmartThings app or the Apple AirPlay function.

Apple AirPlay may not be supported depending on the model or geographical area.

Connecting an IP control device to the TV

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

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

Allowing to connect a wireless network

You can enable the connection to Wi-Fi.

 ${\mathscr{D}}$ To connect a wireless network, the function must be active.

Allowing to connect the Wi-Fi Direct

When using Wi-Fi Direct, you can connect directly with other devices and share content without using a wireless router.

- ✗ To maximize the network performance when a 6 GHz access point is connected, turn off the Wi-Fi Direct function.
- ℰ This function may not be supported depending on the model.

Changing the name of the TV

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

Displaying your mobile device screen on the TV

You can watch the screen of your mobile device on the TV screen through Smart View, Apple AirPlay or Tap View.

When you start screen sharing with a mobile device (Smart View / Apple AirPlay / Tap View), the TV screen switches to the Multi View or mobile device's screen. Watch multiple contents at the same time with the Multi View screen.

- This function may not be supported depending on the model.
- 🖉 For more information, refer to "Using Multi View."

Using Screen Sharing (Smart View)

For information on how to share the screen with your mobile device, refer to $\textcircled{m} > \equiv$ (left directional button) > \checkmark Connected Devices > Connection Guide > Smartphone > Screen Sharing (Smart View). (ry Now

- To turn off Screen Sharing (Smart View), disconnect the mobile device or press the 😏 button on the remote control.
- Using the Smart View menu on your mobile device, you can change the settings such as aspect ratio.

Using Apple AirPlay

Use AirPlay if you are an iPhone or iPad user. For more information, refer to $\textcircled{} > \equiv$ (left directional button) > \checkmark Connected Devices > Connection Guide > Smartphone > Apple AirPlay. (ry Now

- 🖉 This function may not be supported depending on the model or geographical area.
- To use Apple AirPlay, make sure → > = (left directional button) > Settings > All Settings > Connection > Apple AirPlay Settings is enabled.

Using Screen Sharing (Tap View)

By tapping the mobile device on your TV, you can watch Multi View or mobile device's screen through the TV screen. When you tap a mobile device on your TV while running a music app on your mobile device, the TV screen switches to the Music Wall screen.

- ℰ This function may not be supported depending on the model.
- ✗ This function is only available in Samsung mobile devices with Android 8.1 or higher.
- 1. Enable Tap View on your mobile device.
 - 🖉 For more information about configuration, refer to 'Enabling Tap View'.
- 2. Turn on the screen of your mobile device.
- 3. Tap your mobile device on the TV. The TV screen switches to Multi View, Music Wall, or mobile device's screen.
 - 🖉 Be sure to tap away from the TV screen and bezel corners. It may scratch or break the TV or mobile device screen.
 - We recommend using your mobile device with the cover in place and lightly tap it on any external edge of the TV.
 - When you perform Tap View in **Ambient** mode or **Art** mode (only in The Frame models), only the mobile device's screen appears on the TV.
- 4. Watch the Multi View, Music Wall, or mobile device's screen on the TV screen.
- Music Wall screen is a function that allows you to enjoy music along with visual video effects that change according to the genre and beat of the music.
- ℰ The displayed TV screen may differ depending on the model.
- This function enables Screen/Sound Mirroring by detecting vibrations generated when you tap the mobile device on the TV.

Enabling Tap View

Enable Tap View in the SmartThings app.

- 🖉 Depending on the SmartThings app version, you may need to register the TV with your mobile device.
- ℰ This function may not be supported depending on the model.
- 1. Launch the SmartThings app on your mobile device.
- 2. Select Settings ($\equiv > \otimes$) in SmartThings app on your mobile device.
- 3. Set Tap View to on.
 - Upon connection for the first time, select **Allow** on a pop-up window of the TV.

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 or 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 can't 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

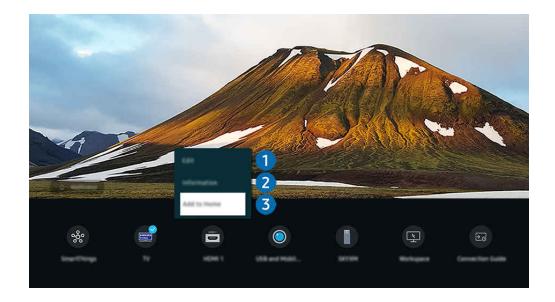
You can switch between TV programs and the content of external devices.

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

- 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 Setup."
- 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.
- ℰ This function may not be supported depending on the device and geographical area.

Editing the name and icon of an external device

You can change the port name for a connected external device or add it to the 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 down directional button. The following functions become available:
 - Available functions may differ depending on the port type.

1 Edit

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

2 Information

You can view detailed information about an external device.

3 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 **SmartThings** feature.

• SmartThings

It allows the TV to connect and control the detected various devices in the same space.

- For more information about SmartThings, refer to "Using SmartThings."
- 🖉 This function may not be supported depending on the model or geographical area.

You can use the following features on the Sources screen.

• Camera Experience

Connect a USB camera, or use the SmartThings app on your mobile phone to connect a camera.

Connect a camera to use video call, home workout, and other new features.

- For details on how to connect, refer to Camera Sharing (> = (left directional button) > Connected Devices > Connection Guide > Smartphone > Camera Sharing).
- This function may not be supported depending on the model.
- Workspace

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

- For more information, refer to "Using Workspace."
- Connection Guide

Displays device connection instructions.

🖉 For more information, refer to "Connection Guide."

• Universal Remote Setup

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 Setup."

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 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 standardized by the IEEE.
- Use a cable shorter than 10 feet (3 m) to get the best UHD viewing quality.
- Many computer graphics adapters 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

- To obtain better TV audio quality, connect a soundbar or A/V receiver to the TV.
- If you connect an external audio device using an optical cable, the **Sound Output** setting automatically changes 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
 - This function may not be supported depending on the model.
 - Use the Select button to select Optical on the Sound Output menu. (⑥ > ≡ (left directional button) > ◊
 Settings > Sound Output > Select button to toggle between sound output modes) (ry Now)
 - Select Optical on the Sound Output menu. (
 ⇒ ≡ (left directional button) >
 Settings > All Settings > Sound > Sound Output) (
 - 🖉 Refer to the soundbar's user manual when connecting it to the TV.
- 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 a 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.
- The Screen Sharing (Smart View) feature may not operate smoothly in a 2.4 GHz environment. For better experience, 5.0 GHz is recommended. 5 GHz may not be available depending on the model.
- 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, refer to the mobile device's user manual.

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

- The mobile device and your Smart TV must be connected to each other on the same network.
- Use AirPlay if you are an iPhone or iPad user. For more information, refer to
 → > = (left directional button) >
 → Connected Devices > Connection Guide > Smartphone > Apple AirPlay. (ry Now)

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

- 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 a NAS (Network-Attached Storage) device.

Connection notes for Portrait Mode

- If you connect the Auto Rotating Accessory (sold separately) to the TV, you can use the TV in Portrait Mode.
- To use the computer or console, connected via HDMI to the TV, in Portrait Mode, you need to change the device setting. Change the screen to Portrait Mode from the computer or console.
 - Portrait Mode is supported when a computer that uses Windows 10 or later or a console that supports Portrait Mode is connected.
 - \checkmark This function may not be supported depending on the model.

Remote Control and Peripherals

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

About the Samsung Smart Remote (QLED TV / The Frame / S8*C/S9*C Series / CU8 Series / CU77** model)

Learn about the buttons on the Samsung Smart Remote.



Button	Description
	Press to turn the TV on or off.
(Power)	For The Frame model, When watching TV, press to switch to Art mode. In Art mode, press to switch to the Media Home. Press and hold to turn off the TV completely.
1 MIC / LED	Used as MIC when using voice recognition with the remote control. When charging the remote control via the USB port, the LED is lit if charging is in progress. When charging is complete, the LED is turned off.
	• Do not impact the MIC hole or use a sharp object to poke into the hole.
(Voice Assistant)	Runs Voice Assistant. Press and hold the button, say a command, and then release the button to run Voice Assistant.
	Each time you press this button, Settings menu / virtual numeric pad / Option pad with Color buttons are displayed alternately.
	• Use this button to access additional options that are specific to the feature in use.
(Settings - Number - Color button)	 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 or Enter Number to enter a numeric value. Use to change the channel, enter a PIN, ZIP code and etc.
	If the Color Button appears with a number strip on the screen, select the Color Button and then select a specific color by using the directional button (up, down, left, right).
2 Directional button (up, down, left, right)	Use to navigate the menu or move the focus to highlight items on the Home Screen.
3 Select	Selects or runs a focused item. When pressed while you are watching a broadcast program, detailed program information appears.
(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 program, the previous channel appears.
í (Smart Hub)	Press to switch to the Home Screen.

Button	Description		
	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.		
🕅 (Play/pause)	To use Game Bar, press and hold the button in Game Mode.		
	<i>C</i> Game Bar may not be supported depending on the model or geographical area.		
+/—(Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 2 seconds or more, the Accessibility Shortcuts appears.		
Move the button up or down to change the channel. To see the Guide screen, press the buttonMove the button up or down to change the channel. To see the Guide screen, press the buttonWhen pressed for 1 second or more, the Channel List screen appears.Press and hold the button up or down to quickly change the channel.			
4 Launch app button	Launch the app indicated by the button. Available apps may differ depending on the geographical area or contents provider.		

Use the Samsung Smart Remote less than 20 feet (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 Setup."
- 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)."

About the Remote Control (CU7/BEC Series)(except for CU77** model)

Learn about the buttons on the Remote Control.



Button	Description	
(Power)	Press to turn the TV on or off.	
(Settings - Number - Option button)	 Each time you press this button, Settings menu / virtual numeric pad / Option pad are displayed alternately. Use this button to access additional options that are specific to the feature in use. 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 or Enter Number to enter a numeric 	
😯 (Color button)	value. Use to change the channel, enter a PIN, ZIP code and etc. When pressed, colored buttons appear on the screen. Use this button to access additional options that are specific to the feature in use.	
 Directional button (up, down, left, right) 	Use to navigate the menu or move the focus to highlight items on the Home Screen.	
2 Select	Selects or runs a focused item. When pressed while you are watching a broadcast program, detailed program information appears.	
(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 program, the previous channel appears.	
🙆 (Smart Hub)	Press to switch to the Home Screen.	

Button	Description		
🕅 (Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.		
+/—(Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 2 seconds or more, the Accessibility Shortcuts appears.		
ヘ/~(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.		
 3 Launch app button ▲ Available apps may differ depending on the geographical area or contents provider. ▲ This function may not be supported depending on the model or geographical area. 			

- ▲ The images, buttons, and functions of the Remote Control may differ with the model or geographical area.
- To use the Remote Control 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 Setup."
- To use the Remote Control 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)."

About the Samsung Smart Remote (The Terrace)

Learn about the buttons on the Samsung Smart Remote.



Button	Description		
	Press to turn the TV on or off. Press and hold to turn off the TV completely.		
(Power)	To activate the Samsung Smart Remote, press 🛑 on it. (This is required only when using it for the first time.)		
	Used as MIC when using voice recognition with the remote control.		
1 MIC	• Do not impact the MIC hole or use a sharp object to poke into the hole.		
2 LED	When charging the remote control via the USB port, the LED is lit if charging is in progress. When charging is complete, the LED is turned off.		
(Voice Assistant)	Runs Voice Assistant. Press and hold the button, say a command, and then release the button to run Voice Assistant.		
	Each time you press this button, Settings menu / virtual numeric pad / Option pad with Color buttons are displayed alternately.		
	• Use this button to access additional options that are specific to the feature in use.		
(Settings - Number - Color button)	• 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 or Enter Number to enter a numeric value. Use to change the channel, enter a PIN, ZIP code and etc.		
	🧪 If the Color Button appears with a number strip on the screen, select the Color Button and		
	then select a specific color by using the directional button (up, down, left, right).		
Oirectional button (up, down, left, right)	Use to navigate the menu or move the focus to highlight items on the Home Screen.		
4 Select	Selects or runs a focused item. When pressed while you are watching a broadcast program, detailed program information appears.		
(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 program, the previous channel appears.		
ሰ (Smart Hub)	Press to switch to the Home Screen.		

Button	Description		
	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.		
🕅 (Play/pause)	To use Game Bar, press and hold the button in Game Mode.		
	<i>C</i> Game Bar may not be supported depending on the model or geographical area.		
+/—(Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 2 seconds or more, the Accessibility Shortcuts appears.		
Move the button up or down to change the channel. To see the Guide screen, press the buttonMove the button up or down to change the channel. To see the Guide screen, press the buttonWhen pressed for 1 second or more, the Channel List screen appears.Press and hold the button up or down to quickly change the channel.			
5 Launch app button	Launch the app indicated by the button. Available apps may differ depending on the geographical area or contents provider.		

Use the Samsung Smart Remote less than 20 feet (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.

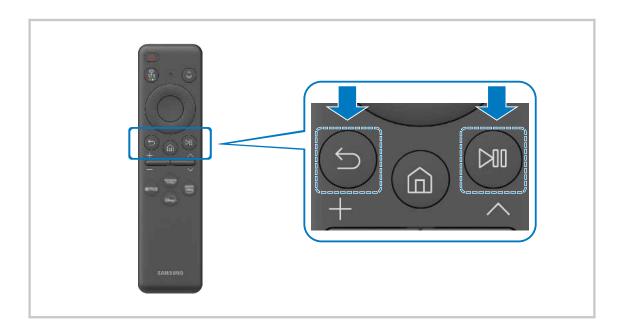
- To use the Samsung Smart Remote to control a compatible external device that does not support HDMI-CEC (Anynet+), you must configure universal remote control for the device. For more information, refer to "Controlling External Devices with a Samsung Remote Control Using the Universal Remote Setup."
- 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)."

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 \bigcirc and O buttons simultaneously for 3 seconds or more.

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



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

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

You can control all external devices connected to the TV using a single Samsung remote. Run the Universal Remote Setup menu to register external devices.

- 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)."
- ✓ Specific 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 improper transmitted signals from the remote control.
- 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.

Learn how to use Samsung Smart Remote

You can learn how to use Samsung Smart Remote.

Find details on how to use the Samsung Smart Remote.

Press the menu to use a variety of functions of the Samsung Smart Remote.

ℰ This function may not be supported depending on the model.

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

- 1. Set Anynet+ (HDMI-CEC) to On.
- 2. Connect an HDMI-CEC-compliant device to the TV.
- 3. Turn on the connected external device.

The device is automatically connected to the TV. After the connection process is finished, you can access the menu of the connected device using your TV remote and control the device.

🧪 The connecting process can take up to 2 minutes to complete.

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

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

You can connect a keyboard, mouse, or gamepad to control the TV easily.

Connecting a USB keyboard, mouse, or gamepad

Plug the keyboard, mouse or gamepad cable into the USB port.

- If you connect a mouse, it is available only in the Internet app and Workspace function.
- XInput USB gamepads are supported.
- For more information, refer to Input Device in Connection Guide (
 > = (left directional button) >
 Connection Guide > Input Device)

Connecting a Bluetooth keyboard, mouse, or gamepad

- If your device was not detected, position the keyboard close to the TV, and then select Refresh. The TV scans for available devices again.
- If you connect a mouse, it is available only in the Internet app.
- ▲ A maximum of four gamepads can be connected, regardless of connection method (e.g., USB or Bluetooth).
 - When using two BT audio devices, it is best to use USB gamepads.
 - When using one BT audio device, up to two BT gamepads can be connected.
- 🖉 For more information, refer to the Bluetooth device's user manual.
- This function may not be supported depending on the model or geographical area.

Using the keyboard and mouse

Button	Description
Directional keys	Use to navigate the menu, or move the focus to highlight items on the Home Screen.
Enter key	Selects or runs a focused item
ESC key	Returns to the previous screen
Number keys	Enter numbers
F1 key	Turns on or off the TV
F2 key	Displays the Settings menu / numeric keypad / Option pad Each time you press this button, Settings menu / virtual numeric pad / Option pad are displayed alternately.
F3 key	Plays/pauses
F4 key	Displays the Settings screen
F5 key	Displays the Home Screen
F6 key	Displays the Sources 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 webpage displayed by the Internet app.
Left-click	 Selects and runs an item. Available only in the Internet app. You can click a menu or link to start a function as you do on a PC.

ℰ The key operation may differ depending on some apps or the keyboard.

Using the Gamepad

Check the supported gamepads. (Try Now

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

lanufacturer	Controllers	Connection	Force feedback
	Xbox Series X/S controller	BT	0
	Xbox One S controller	BT	0
	XDOX ONE S CONTroller	USB	0
Microsoft	Xbox 360 controller	USB	0
	Xbox Elite Wireless Controller Series 2	BT	0
	Vhoy Adoptive controller	BT	-
	Xbox Adaptive controller	USB	-
		BT	0
	Dualsense Edge	USB	0
Conv	Duslaares	BT	0
Sony	Dualsense	USB	0
		BT	0
	DualShock 4	USB	0
Casala		USB	Not support
Google	Stadia controller	Wi-Fi	Not support
		BT	0
Amazon	Luna controller	USB	0
		Wi-Fi	Not support
Joytron	CYVOX DX	USB	0
	F710	USB	0
Logitech	F510	USB	0
	F310	USB	-
DewerA		BT	-
PowerA	MOGA XP5-X Plus Bluetooth controller	USB	-
Nuclia	Chield controller	BT	0
Nvidia	Shield controller	USB	Not support
	Nistanda Cultura Dur	BT	0
Nintendo	Nintendo Switch Pro	USB	0
	Nintendo Joy-Con (L/R)	BT	0

- ✗ Some keys are not available on this product depending on controller.
- Force feedback :
 - "Not support" (This product can't support force feedback.)
 - "-" (Controllers don't have force feedback function.)
 - * Tizen TVs will support only XInput mode for the supported gamepads.
 - * Xbox controllers may require firmware updates.
- ✗ Controller audio output (3.5 mm port) is not available on this product.
- ℰ Other controllers may or may not work for cloud gaming.

Using the controller

Button	Description
Left joystick and dpad	4 way navigation
Right joystick	 Up / Down : Volume control (Up / Down) Left / Right : Channel control (Up / Down) on TV screen Select (press): Mute the sound
A button or X button (Sony Only)	Enter (OK)
B button or O button (Sony Only)	Return (Cancel)
Pressing and holding the B button or O button (Sony Only)	Exit
Home button	Gaming hub homepage (Gaming hub supported countries) Smart hub homepage
Pressing and holding the Home button	(During cloud game play) Quick panel
Option button on the left	Game Bar (when Game Mode is turned on and an external source is connected)
X button or 🗆 button (Sony Only)	Numeric buttons (123)
Pressing and holding the left and right joysticks simultaneously	Power Off (Turning power on is not possible) On The Frame models, the TV goes into Art mode.

▲ The button operation may differ depending on some apps or the controller.

▲ If you connect controller to this product by Wi-Fi solution, you cannot use UI navigation function.

* Gaming Hub and Cloud game may not be supported depending on the country.

Setting up the input devices

$\textcircled{O} > \equiv$ (left directional button) > O Settings > All Settings > Connection > External Device Manager > Input Device Manager (Iry Now

• Keyboard Settings [ry Now

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

• Mouse Settings Try Now

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.

1 Recommended text

When you type a word you want to use as a search term, this function displays related suggestions from which you can choose one.

2 Editing Buttons

By selecting any of pop-up Editing Buttons after entering characters on the virtual keyboard, you can quickly perform the editing function.

It is function is only available when the Show Editing Buttons feature is turned on.

3 Settings

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

- The options available may differ depending on the function running currently.
- Recommended text
 - Recommended text
 - Reset Recommended Text Memory
 - Show Editing Buttons
- Keypad Language

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 O 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.
- ℰ The Samsung Smart Remote may not be supported depending on the model or geographical area.

Smart Features

You can enjoy various apps with Smart Hub.

Using Smart Hub

View descriptions of Smart Hub's basic functions.

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

- ℰ Some Smart Hub services are paid services.
- To use smart functions, you should connect to a network, agree to the terms and conditions, and log in with your Samsung account.
- 🖉 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 network service.

Displaying the Home Screen

Press the 🌀 button.

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3- Q 4- ®								
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✗ The image on your TV may differ from the image above depending on the model and geographical area.

1 🔋 Privacy Choices

From your TV, easily manage the privacy policy regarding services related to Smart Hub and verify how personal information is protected.

- 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 & Privacy by navigating to > = (left directional button) > Settings > All Settings > General & Privacy > Terms & Privacy. (ry Now)
- If you want to stop using Smart Hub, you can cancel the agreement. To cancel the Smart Hub service agreement, select
 Reset Smart Hub (
 > = (left directional button) >
 Settings > Support > Device Care > Self Diagnosis > Reset
 Smart Hub). (
 Try Now
- \checkmark This function may not be supported depending on the model or geographical area.

2 Samsung Account

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

🖉 For more information, refer to "Using a Samsung account."

3 Q Search

Search for channels, programs, movies, and apps offered by Smart Hub.

- ✓ To use the Search service, make sure the TV is connected to a network.
- Inis function may not be supported depending on the model or geographical area.

4 💿 Ambient

Set your TV to display content you desire, such as the time or weather, when the TV is not used.

To return to TV mode from Ambient mode, press (a) > the left directional button > **Media**. Press the **button** to turn off the TV.

- 🖉 This function may not be supported depending on the model or geographical area.
- 🖉 For more information, refer to "Using Ambient Mode."

💻 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, photos, or to display the content.

- ℰ This function is supported only in The Frame.
- 🖉 For more information, refer to "Using Art Mode."

5 🙉 Game

Play games from the TV screen by connecting a Controller to the TV. Configure settings to optimize the Controller and audio device for playing games.

- \checkmark This function may not be supported depending on the model or geographical area.
- 🖉 For more information, refer to "Using Samsung Gaming Hub."

🌔 🖿 Media

View a variety of TV programs. Install various apps offered by Smart Hub, such as video, music and sports apps, and use the apps from the TV.

🖉 For more information, refer to "About the Media Home Screen."

7 ≡ Menu

Manage external devices connected to the TV, and configure settings for various functions available on the TV.

🖉 For more information, refer to "About the Menu Home Screen."

Launching Smart Hub automatically

O > = (left directional button) > O Settings > All Settings > General & Privacy > Start Screen Option > Start with Smart Hub Home (ry Now)

Enabling Start with Smart Hub Home automatically launches Smart Hub when the TV is turned on. Navigate to this option to enable or disable the feature.

Launching the last used app automatically

(a) $> \equiv$ (left directional button) $> \otimes$ Settings > All Settings > General & Privacy > Start Screen Option > Autorun Last App (ry Now)

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

- ℰ This function may not be supported depending on the model.

Launching Samsung Business TV app automatically

If Autorun Samsung Business TV App is set to On, Samsung Business TV app is automatically run when you turn on the TV. You can also turn this function on or off. Press the Select button at the current menu. To use the Samsung Business TV app on your TV, install the app from Google Play Store or App Store. Use the Samsung Business TV app by following the screen instructions on the mobile device.

- When Autorun Samsung Business TV App is set to On while Autorun Last App is turned On, the Samsung Business TV app runs automatically when your TV is turned on.
- ℰ This is available in Android 6.0/iOS 9.0 or higher.
- The Samsung Business TV app on the Home Screen is installed automatically after you consent to the service agreement and the collection and use of personal information.
- ℰ This function may not be supported depending on the model or geographical area.

Automatic Mirroring from Multi View

If you screen mirror your mobile device, the Multi View automatically displays the device screen. Navigate to this option to enable or disable the feature.

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

Automatic casting in Multi View

(a) $> \equiv$ (left directional button) $> \otimes$ Settings > All Settings > General & Privacy > Start Screen Option > Autorun Multi View Casting (ry Now)

Casting YouTube content from the mobile device automatically displays the content on Multi View.

- 🥒 It is available on the screen for any broadcast, external device, or app that supports Multi View.
- ℰ This function may not be supported depending on the model.

Launching Multi View automatically When rotating

Multi View runs automatically when you rotate the screen to portrait mode.

- This function may not be supported depending on the model.
- ℰ This function is activated when the Auto Rotating Accessory (sold separately) is connected.

Testing Smart Hub connections

Resetting Smart Hub

- You can reset the Smart Hub settings. To reset Smart Hub, enter the PIN. The default PIN is "0000." You can set the PIN in
 > = (left directional button) >
 Settings > All Settings > General & Privacy > System Manager > Change PIN.
 (iry Now)
- Change PIN may not be supported depending on the model or geographical area.

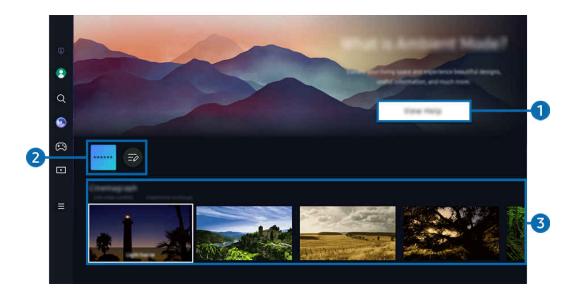
Using Ambient Mode

Learn about the functions available in Ambient mode.

Ieft directional button > Ambient Try Now

Set your TV to display a photo or content you desire when the TV is not used.

- ℰ This function may not be supported depending on the model.
- On The Frame models, the Ambient mode is integrated in the Art mode.
- Press the button in Ambient mode screen to enter to Ambient Home.
- In Ambient mode, some functions may not be supported.



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

1 Getting to Know Ambient Mode

Press View Help to briefly view information about Ambient mode, including functions.

2 NFT app List

You can download images from the NFT apps and use them in Ambient mode. You can move the app to another location by selecting List Edit located at the end of the list.

- ✓ Supported NFT apps may vary, depending on the region.
- Mhenever a new NFT app is released, you can display a wider variety of NFT artworks.

3 Function and content preview

Select a preferred content and a preferred background and set them as your Ambient mode. While in Ambient mode, press the Select button on the remote control to view the content details.

- You can use the SmartThings app on a Mobile Device to select a desired content and change the settings. Indicates content perfectly suited for the time of the day.
- 🖉 Available content categories may differ depending on the model or geographical area.
- Changing art work

Change the artwork to display in Ambient mode. Press the Select button on the remote control to move the focus to an artwork. Use the left or right directional button to move to the desired art work, and then press Select button on the remote control.

• View Details

View detailed information about the selected image.

• Favorite

Add or delete specific images in Favorite by pressing Select on the remote control. To view items that are set as Favorites, navigate to Ambient > Favorite.

- \bigcirc Favorite: The item is not set as favorite
- Favorite: The item is set as favorite

• Edit

Customize the settings to suit your preferences.

- 🖉 Available functions may not be supported depending on the model or content.
- Weather Filter
 - You can add a weather effect to content.
- Time Filter

You can select any background time format for content.

- Color

Changes the color of the content.

- Vibes

Selects a mood that matches the content.

- Backgrounds

Changes the background of the content.

- Shadow Effects

Applies a shadow effect that you select to the content.

- Filter

You can select an image filter effect to content.

- BGM Mode

You can add a background music to content.

• Screen Settings

You can adjust the settings such as content brightness, saturation, and color tone.

- Brightness

Adjusts the brightness of the content.

- Saturation

Adjusts the saturation of the content.

- Color Tone

Adjusts the colors of the content.

- Red Tone / Green Tone / Blue Tone

Adjusts the red, green, blue contrast.

Selecting Content Category

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

While in Ambient mode, press the Select button on the remote control and press • Favorite to save the displayed content to Favorite.

• Promoted by NFT Apps

Browse a variety of new and adventurous content with an app that provides NFT works.

• Special Edition

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

• Cinemagraph

Adds a looping animation to a specific part of the photo to make it more attention-grabbing.

• 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 How to Select Photos.

• Q Collection

Provides content that is dedicated to Samsung QLED.

• Mood

Enjoy a range of options to create the right ambience to suit your mood.

Relaxation

Relax with a selection of calming content inspired by nature to soothe your mood.

• Décor

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

• Info

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

• 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 optimization depending on network conditions.
- A created Background Theme can be set as the background for content. To set it as the background for content, press the Select button on the remote control while in Ambient mode, and select Edit
- Routine

Enjoy a range of routines, each displaying content to suit each part of your day or create your very own routines via the SmartThings app.

	Background Theme					
		100.00				
9					 _	
1	Antilent Screen Optio				1	
	AUTO	\bigcirc	Ŵ	?		
	Anto Responses	time star				
			<u> </u>			

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

4 Ambient Screen Options

Following Ambient mode options are configurable:

- This menu can be found at the bottom of the **Ambient** home. To configure the option settings, scroll down to the far bottom.
- ▲ Available options may vary depending on the model.

• 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.
- Reset All Photos

Reset photos saved in My Album.

• What is Ambient?

Briefly view information about Ambient mode, including functions.

Entering the TV viewing screen from Ambient Mode

To access the TV screen from Ambient mode, press either the
or
button to redirect to the Ambient mode Home Screen, press the left directional button on the remote control, and then select either
or
Media.

👔 If the TV is off and the 🕘 button is pressed, the 💽 Media Home Screen appears.

Using Art Mode

Learn about the functions available in Art Mode.

> left directional button > = Art

🧪 This function is supported only in The Frame.

You can use Art mode function to display image content such as artworks or photos when you are not watching TV in full screen mode.

- Press the **(**) button while using the TV, the TV switches to Art mode.
- Press the 🕘 button in Art mode to enter to Media Home.
- Press the low button in Art mode to enter to Art Home.
- To turn off the TV completely, press and hold the
 button on the remote control, or press the TV Controller button of the TV.

🖉 If you use a remote control other than the Samsung Smart Remote, the TV may not be turned off completely.

• In Art mode, the brightness and color tone of your TV are automatically adjusted depending on the ambient, and the TV can be automatically turned off.

Intervise the transformation of transformation of the transformation of transformation of the transformation of transformat

Configure the motion sensor settings by using Art Mode Options (
 > left directional button > , Art > Art

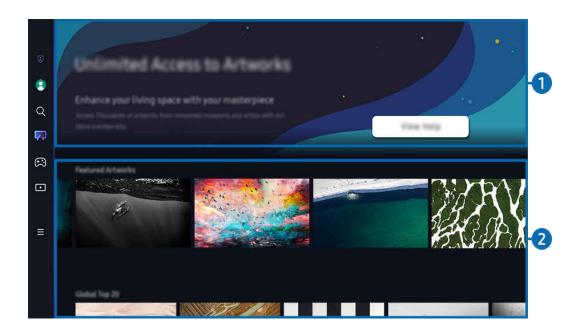
 Mode Options) at the bottom of the Art home displayed on the TV or using the mobile SmartThings app. The TV may automatically turn on or off by detecting user motions and other visual changes.

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

- While in Art mode, use the SmartThings app on your mobile device to save photos on the device to the TV.
 - 🖉 This function may not be supported depending on the TV model or mobile device.
 - ✓ Supported features may differ depending on the version of the SmartThings app.

About the Art Home screen

> left directional button > Art



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

Useful Information

View information and promotions related to the Art home.

2 List of image categories

From the displayed list of categories, select an image and press the Select button to view details about the image. Select **Preview** to preview the image in full screen for 30 seconds. If you like the image, you can keep it as an artwork by purchasing it or subscribing to the **Membership**.

If you select a saved image, the TV goes into Art mode. In Art mode, press the Select button on the remote control to use the following menu options:

- 🖉 Available content categories may differ depending on the model or geographical area.
- Changing art work

Change the artwork to display in Art mode. Press the Select button on the remote control to move the focus to an artwork. Use the left or right directional button to move to the desired art work, and then press Select button on the remote control.

• View Details

View detailed information about the selected image.

• Favorite

Add or delete specific images in Favorite by pressing Select on the remote control. To view items that are set as Favorites, navigate to My Art Store > Favorite.

- ● Favorite: The item is set as favorite

• Mat

Customize the border style and color to suit your preferences. To save changes, select the desired mat style and color, and press either the Select or 😉 button.

- Supported border styles may differ if the image aspect ratio is not 16:9 or the image resolution is lower than the recommended resolution.
- Recommended resolution: 1920 x 1080 (for 32LS03C models) or 3840 x 2160 (for 43-inch and larger models)

Screen Settings

Customize the Art mode screen settings to suit your preferences.

- Brightness

Adjust the screen brightness. Press the Select button to save the change.

- Color Tone

Adjust the image colors. Press the Select button to save the change.

- Brightness Reset

Reset the screen brightness to the default value.

Recents

Manage recently displayed images.



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

3 My Art Store

• Favorites

Manage images saved in Favorite.

- Display All / Resume Play

Play images in Favorite as a slideshow.

- Delete

Select and delete multiple images in Favorite simultaneously.

• Membership

If you sign up for Membership, you can use artwork without any restrictions. You can also replace it with new artwork periodically to suit your preference.

Follow the on-screen instructions to proceed with the payment.

- If you subscribe to a membership during your free trial period, your account is immediately switched to a membership account regardless of the remaining trial period, and you can use a variety of artworks without any restrictions.
- Payment Info

View artwork purchase details, and easily purchase artworks by entering required payment information.

🖉 For details about payment information, visit Samsung Checkout (sbox.samsungcheckout.com).

4 Art Mode Options

Configure options related to the Art mode screen.

🖉 This menu can be found at the bottom of the Art home. To configure the option settings, scroll down to the far bottom.

• Sleep After

The TV automatically turns off if no motion is detected around the TV for a specified period of time. Press the Select button to specify a time period.

• Night Mode

The TV automatically turns off if no light is detected around the TV. This mode detects lights around the TV to automatically turn on or off the TV depending on the presence of light. Press the Select button to turn the mode on or off.

• Motion Detector

Set the Motion Detector for the motion sensor. Press the Select button to set the sensitivity level.

- Motion Detector may not be supported depending on the model or geographical area.
- What is Art?

Briefly view information about Art mode, including functions.

Import images from USB memory

- 1. Connect the USB memory device storing images to the TV.
- 2. The USB memory is automatically recognized, and the screen displays a list of image, music, and video files that are stored in the USB memory.
 - An alternative way to run the USB memory is to navigate to → = (left directional button) > Connected Devices and select the USB memory.
- 3. Navigate to the folder that contains the image file you want to save to the TV, and then select Options > Send to Art Mode.
- 4. Select the image and press **Send**. The image, stored in the USB memory, is saved under **Art** mode.

Recommended resolutions (16:9): 1920 x 1080 (32-inch model), 3840 x 2160 (43-inch or larger models)

Using Art mode with the SmartThings app

Once you have installed the SmartThings app on your mobile device, you can use the following functions:

You can download the SmartThings app from Google Play Store, Samsung Apps, or the App Store.

If the TV is not registered in your SmartThings app, press + (Add Device) and register the TV before using the mode.

- ℰ The features or terminology may vary depending on the version of the SmartThings app.
- On tablet devices, Art mode features may not be supported by the SmartThings app.
- Selecting an image under Art mode.
- Saving photos from a mobile device to the TV: Use the Add picture function to save photos on a mobile device to the TV.
 - Add Picture > select 2 to 3 images > Create Mat: Combine the 2 to 3 images to create a single image.
 - My Album > select content, such as Dynamic Filter or Auto Gallery, and then press Select Photo to set the content as mobile photos.
- Subscribing to Art mode Membership.
- Applying border styles and colors to images.
- : (more) > Art Mode Options
- Setting the brightness for Art mode.
- Setting Sleep After: When no motion is detected for the time specified in Art mode, the TV turns off automatically.
- Setting Motion Detector Sensitivity: Set the sensor sensitivity so that the TV turns on or off automatically when motion is detected in Art mode.
 - Motion Detector Sensitivity may not be supported depending on the model or geographical area.
- Setting Night Mode: This mode detects lights around the TV to automatically turn on or off the TV depending on the presence of light.

Precautions when using Art mode

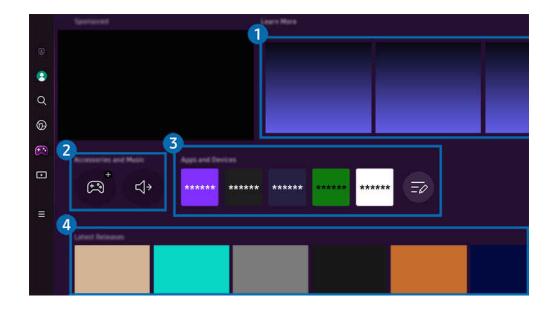
- Motion Sensor may not be supported depending on the model or geographical area.
- The motion sensor is located at the bottom of the TV. Do not block the sensor at the front of the TV. The motion sensor as well as the brightness and color tone of the screen can be affected.
- Art mode uses algorithms to minimize image burn-in that can be caused by displaying still images on the screen for long periods of time.
- The performance of the sensor may vary depending on the TV installation and operating environment.
 - The screen brightness and color tone may be affected depending on the color of the floor on which the TV stands.
 - In an environment where special light sources other than standard light sources (halogen, fluorescent) are used, the sensor's motion recognition performance may vary depending on the positions, types, and number of the light sources.
 - If the area around the TV is too dark or bright, the screen brightness may be limited or the sensor may not work normally.
 - If the TV is installed too high or too low, the sensor may not work normally.
 - The motion sensor may sense motion from a flashing LED, a pet, a car moving outside the window, or other occurrence and start operating.
- Depending on the Auto Power Off function settings, the TV may turn off when there is no user input in Art mode, such as inputs from the remote control (
 > ≡ (left directional button) >
 Settings > All Settings > General & Privacy > Power and Energy Saving > Auto Power Off). (
- The following functions are disabled in Art mode.
 - (a) > = (left directional button) > (b) Settings > All Settings > General & Privacy > System Manager > Time > Sleep Timer (Try Now)
 - (a) > ≡ (left directional button) > (b) Settings > All Settings > General & Privacy > System Manager > Time > Off Timer (Try Now)
 - (a) > ≡ (left directional button) > (b) Settings > All Settings > General & Privacy > Power and Energy Saving > Screen Saver (Try Now)

Using Samsung Gaming Hub

Gamestream a wide variety of games right on your TV through Samsung Gaming Hub. Connect your controller through Bluetooth or USB.

> left directional button > A Games

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



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

1 Learn More

Provides information about Samsung Gaming Hub and details on how to use devices.

2 Accessories and Music / Accessories

• Controllers

Select a Controller to connect to the TV.

🖉 For more information about supported controllers, refer to "Using the Gamepad."

• Audio

Select an Audio Device (e.g. Gaming Headset) to connect to the TV.

• Music Player

Manage the music to play while playing a game.

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

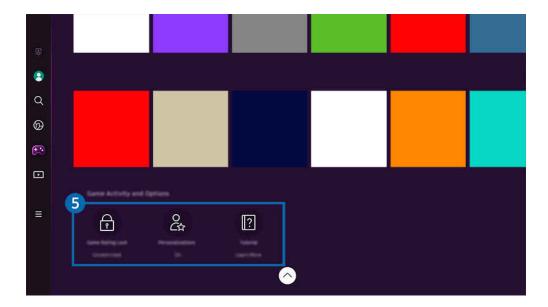
3 Apps and Devices

Install or remove apps or devices that are required to play games.

4 Game list

Purchase games or subscribe to service offered by the Samsung Gaming Hub. Select a game to view the game details.

Installation of related apps is required to run some games.



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

5 Game Activity and Options

This menu is provided at the very bottom of the Samsung Gaming Hub screen. To configure **Game Activity and Options**, scroll down to the very bottom.

• Game Rating Lock

Set the age limit for playing games.

🖉 The age limit is only supported to cloud game browsing domain in Gaming Hub.

• Personalization

Tailored content is recommended, according to the games recently played by the user and the content the user is interested in.

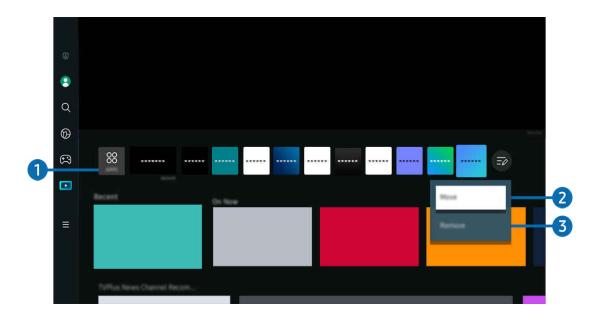
• Tutorial

Provides information about the Samsung Gaming Hub and details on how to use devices.

About the Media Home Screen

View a variety of TV programs. Install various apps offered by Smart Hub, such as video, music and sports apps, and use the apps from the TV.

> left directional button > Image Media



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

1 88 APPS

Install a variety of apps offered by Smart Hub, such as video, music, sports and game apps, and use the apps from the TV.

- To use APPS, make sure the TV is connected to a network.
- 🖉 For more information about APPS, refer to "Using the Apps Service."

2 Moving an item on the Home Screen

From the end of the APPS list, select List Edit. Move the focus to the app to relocate, and press the down directional button on the remote control. Select Move from the option menu. Use the left or right button to reposition the app and then press Select. This repositions the app on the Home Screen.

An alternative way to move an app is to move the focus to the app to move and then press and hold the Select button.

3 Removing an item on the Home Screen

From the end of the APPS list, select List Edit. Move the focus to the app to remove, and press the down directional button on the remote control. Select Remove from the option menu. This removes the app from the Home Screen list.

-
-5

4 Recent

Access your last watched TV program, app or last used input source.

5 On Now

Display a list of TV programs or Samsung TV Plus content items currently being aired.

This function may not be supported, depending on the input signal and settings.

6 Universal Guide

Universal Guide is a function 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 access Universal Guide, press the down directional button on the remote control in Home Screen.
- It o 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.
- All YouTube 8K content recommended and provided through the Home screen of 8K TV is attributed to YouTube.

The picture quality of YouTube 8K Content can be affected by a variety of factors, including location, Internet bandwidth used at home, and Internet access speed.

Depending on your Internet connection environment, it may be temporarily played at a resolution rather than an 8K resolution.

The recommended connection speed for receiving 8K image quality (8K resolution) is at least 80 Mbps.

The loading time it takes to start watching YouTube 8K Content may vary depending on the Internet bandwidth or Internet access speed you are using at that time.

In the future, depending on the operation policy of Samsung and YouTube services, whether YouTube 8K content is recommended through the Home screen may vary.

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

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7 Media Options

- Inis menu can be found at the bottom of the Media home. To configure the option settings, scroll down to the far bottom.
- Inis function may not be supported depending on the model or geographical area.
- Preferences: Select a preferred service to receive content recommendations to suit your preference.
- **Continue Watching**: Choose content providers for **Continue Watching**. You can continue watching different shows in one place from all the **Continue Watching**-supported content providers listed below.
- Parental Lock: Redirect to the Parental Lock menu. Turn all parental control settings on or off.

About the Menu Home Screen

Manage external devices connected to the TV, and configure settings for various functions available on the TV.

\bigcirc > left directional button > \equiv Menu



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

↓ 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 schedule viewing, schedule recording, etc.

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:

• 🗇 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 √ Connected Devices

Select an external device that is connected to the TV.

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

3 [⊕] Settings

Move the focus to the **Settings** menu to display quick setting options below the menu. Quick Settings can be used to quickly configure frequently used features.

Ite Settings items may not be supported depending on the model or geographical area.

• All Settings

Displays the Settings menu for configuring specific settings.

• Support

Displays the Support settings menu.

• Wi-Fi / Wired

Check your network connection. To check your network connection or change the connection settings, press the down directional button, and select either Network Status or Network Settings.

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

Energy Saving Solution

Reduce power consumption by adjusting brightness settings.

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

• Picture Mode

Change the picture mode for the optimal viewing experience. Press the Select button to change the Picture Mode.

• Intelligent Mode

Improves your viewing experience by recognizing your content, usage patterns and the environment around your TV.

- 🖉 This function may not be supported depending on the model or geographical area.
- 🖉 For more information, refer to "Using Intelligent Mode."
- Picture Setup

Easily configure the screen settings: Brightness, Contrast, Sharpness, Color and Tint (G/R).

Sound Mode

You can select a sound mode to optimize your listening experience. To change the sound mode, press the Select button. To make fine adjustments, press the down directional button, and then select Equalizer Setup.

• Sound Output

You can select which speakers the TV uses for audio output. To change the audio output, press the Select button.

Bluetooth Device List

Connect your TV to Bluetooth devices. This can be done by selecting **Bluetooth Device List** to automatically search for Bluetooth devices.

🖉 Connecting Bluetooth devices may not be supported depending on the model or geographical area.

• Game Mode

You can set the Game Mode to optimize the TV screen for better gaming performance. To turn Game Mode on or off, press the Select button. To set the detailed options, press the down directional button, and then select Go to Game Mode Settings.

- Inis function is only available when an external input source is being used.
- 🖉 For more information, refer to "Setting the Viewing Environment for External Devices."
- This function may not be supported depending on the model or geographical area.

• Caption

You can watch TV broadcasts with captions. To activate or deactivate the Caption function, press the Select button. To run Accessibility Shortcuts, press the down directional button, and then select Accessibility Shortcuts.

• Sleep Timer

You can turn off the TV automatically at a specific time. To change the sleep time, press the Select button. To set the specific time at which the TV turns off automatically, press the down directional button, and then select Set Up Off Timer.

Color Tone

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

• Picture Clarity

You can optimize 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 down directional button, and then select Picture Clarity Settings.

• Digital Output Audio Format

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

• Power and Energy Saving

Display the **Power and Energy Saving** menu. Reduce energy consumption by changing your power preferences and other energy-saving options.

• On Timer

You can set **On Timer** to turn on the TV automatically at a specific time. **On Timer** is only available if the **Clock** has been set.

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

• 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.

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

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

4 🗊 Multi View

While watching the TV, you can simultaneously view multiple screens that are split.

- 🖉 For more information, refer to "Using Multi View."
- 🖉 This function may not be supported depending on the model or geographical area.

5 List Edit

From the end of the Settings list, select List Edit. You can change the location of functions in the Settings screen.

An alternative way to move a function is to move the focus to the function to move and then press and hold the Select button.

Using a Samsung account

Create and manage your own Samsung account.

- You can view the entire text of the Terms & Policy in > = (left directional button) > Settings > All Settings > General & Privacy > System Manager > Samsung Account > My Account > Terms & Conditions, Privacy Policy after logging in to your Samsung account.
- Follow the instructions on your TV screen to create or log in to a Samsung account.
- ℰ Samsung account can be used on TV, mobile device, and website with one ID.
- 🥒 In the U.S.A., only users over 13 can sign in.

Signing in to a Samsung account

Creating a new account

Managing your Samsung 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 using it.

- To sign out of your Samsung Account () > = (left directional button) > @ Settings > All Settings > General & Privacy > 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.

- To protect personal information, enter Edit Profile and then Sign-in Method is set to Select your ID and input password (high security).
- 🖉 If you want the TV to log you into your account automatically whenever you turn on the TV, click Stay Signed In.
- Mhen the TV is used by multiple people, turn off **Stay Signed In** to protect personal information.

• PIN Setting

Set or change your PIN.

• Payment Info

You can view or manage your payment information.

• Back up

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

• Product Registration

You can register the current TV or see the registered information. You can easily receive services after product registration.

🖉 You can see the registered information or delete it at the Samsung account website (https://account.samsung.com).

• Sync Internet

Once you sign in to your Samsung account and configure the Sync Internet settings, you can share the favorites 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.

Z To unsubscribe from your Samsung account, visit the Samsung accounts website (https://account.samsung.com).

• Terms & Conditions, Privacy Policy

You can view the user agreement and privacy policy.

For more information about the terms and conditions, privacy policy, select View Details.

Using Workspace

Use the remote function to connect to and use a Windows PC, Mac, or mobile device from the TV.

\bigcirc > = (left directional button) > ~ Connected Devices > Workspace (ry Now

Connect a Windows PC, Mac, or mobile device to the TV to easily use the device.

🧪 For easy computer use, connect a keyboard and a mouse to your TV in advance.

Using Screen Sharing (Windows PC) / AirPlay (Mac)

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

- ℰ This function is only available for PCs that support wireless screen sharing.
- This function may not be supported depending on the model or geographical area.
- ℰ Connection via Windows OS is available in Windows 10 and later versions only.
- ℰ Connection via Mac OS is available in AirPlay.

Using Easy Connection to Screen

You can easily use remote access function after installing Easy Connection to Screen on your PC.

Follow the instructions on the screen to download and install the **Easy Connection to Screen** PC app. Then you can easily connect a remote PC.

- 1. Download the Easy Connection to Screen PC app from http://smsng.co/easy and then install it on your PC.
- 2. Log in to the same Samsung account for both TV and PC.
- 3. When the PC is turned on and connected via the network, Workspace's Home Screen displays the PC.
- 🥒 The Easy Connection to Screen PC app is available in Windows 10 and later versions only.
- Depending on the network environment including the firewall configuration, router type, and wireless signal strength, connection problems may occur, such as low speed, disconnection, or limited connection.

Connecting a Remote PC

Provides **Remote Desktop Connection (RDP)** for remotely connecting to a PC running on Windows and **Virtual Network Computing (VNC)** for a PC running on Mac. To remotely connect to a PC, you must enter the IP address of the remote PC or select a saved profile. Enter a correct username and password. If there is any computer that can be accessed via the same network, the found IP is displayed.

- To register a frequently used PC, move the focus to $\stackrel{>}{\simeq}$ Manage User Profiles, and then press the Select button. When a popup window appears, select Add, and then enter the PC information.
- When your PC enters in power saving mode, connection is not available. It is recommended to cancel the power saving mode.
- It is recommended to connect the wired network because the screen or sound may be interrupted depending on the network condition.

1. Configure your computer's settings to use the Workspace function.

- Connection to Windows via the RDP protocol is available in Windows 10 Professional or higher.
- Remote connection to a PC running on Mac via the VNC protocol is only supported for Mac OS X 10.5 or later.
- Windows OS:
 - 1) Right-click the My PC icon on Desktop or Windows Explorer and then click Properties.
 - 2) Click Remote Desktop and select Activate Remote Desktop.
- Mac OS:
 - 1) Select Menu > System > Preferences and then click Sharing.
 - 2) Select the Screen Sharing and Remote Login check box.
 - Run the resolution changing app downloaded from App Store and then change the resolution to 1440 x 900 or lower.
 - If you do not change the resolution in Mac OS, the previous image may appear while connecting a remote computer.

2. Enter the required settings for connecting the computer remotely.

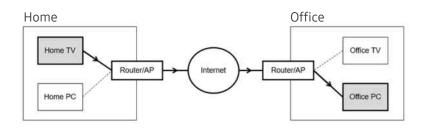
	and a second
1 Koratia	W atteness or profile
2	Enter a username.
3 ******	Enter a password.
	Remainline my contentials and add to the TV Nume screen. You can opened directly from the April Content on Abstraction

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

1 PC/Profile

Enter the IP address or profile of the PC you want to connect to.

- In case of Windows, when the computer to connect is within the same network (router/AP), run "cmd" command in Settings > Network and Internet > View Network Properties or in Start > Run, and then run "ipconfig" to check the IPv4 address of the computer.
- In case of Mac, you can check the IP address in Settings > Remote Access.
- When the TV and computer are not within the same network, it is required to know the public IP and configure the router and AP. Check whether the router connected to the computer supports port forwarding. When the company provides additional security features such as firewall, seek help from a security officer.



2 Username

Enter the Username of the computer. How to check the Username:

- Windows OS: Control Panel > User Account Control
- Mac OS: System Preferences > Users & Groups

3 Password

Enter the password for the login account.

 \checkmark For use of PIN, do not enter PIN but the specified password of the computer.

Playing Multimedia Content on a Remote PC

When you move the mouse cursor to the top of the screen after accessing a remote computer, the top bar appears. When the sharing folder icon is clicked in the top bar, the folders shared on Windows or Mac OS appear. You can play back any media content in a folder.

🖉 For more information, refer to "Playing pictures/video/music."

To use this function, the folder sharing option on the computer to access must have been enabled as shown below:

- Windows OS:
 - 1. Run Windows Explorer and then move to the folder to share.
 - 2. Right-click the folder and then click Properties.
 - 3. After the Properties window appears, click the Sharing tab and then click Advanced Sharing.
 - 4. After the Advanced Sharing window appears, select the Share this folder check box.
- Mac OS:
 - 1. Select Menu > System Preferences and then click Sharing.
 - 2. Select the File Sharing check box.
 - 3. To add a folder to share, click the Add+ button at the bottom.
 - 4. Select a folder and then click Add+.
- It is recommended to connect the wired network because the screen or sound may be interrupted depending on the network condition.
- When playing a video file via a remote computer, the screen or sound breaking may be encountered.

Using Samsung DeX

Run Samsung DeX on your mobile device to connect the software to the TV.

Follow the on-screen instructions to connect Samsung DeX. Some models may not be searched when connecting the TV from a mobile device through Samsung DeX. If that is the case, follow the instructions shown on the mobile device screen to connect the software.

✗ This function is available only on mobile devices that support the wireless Samsung DeX.

Using Microsoft 365

You can read or create a document after accessing the Microsoft 365 website.

- ℰ Run the site in full-screen mode.
- 🖉 URL modification is impossible in the Microsoft 365 page.

Adding the Web Service

Select the Add Web Service icon. Use the bookmarking function of the Workspace browser, you can add or delete the web service link to or from Workspace.

- 🖉 To add the web service, you must be signed in to your Samsung account.
- The number of web services that can be added to Workspace is limited.
- *Workspace* browser not share data with Internet. (Web browser outside from Workspace)

Using Web Service

You can access the web service by selecting the web service icon added to Workspace.

- \checkmark The screen on the webpage may differ from that of a computer.
- 🖉 You can copy or paste any text. Some image formats are supported.
- For easy and secured login in Web Service, **Workspace Pass** is additionally supported as well as **Samsung Pass**.

Setting Samsung Pass or Workspace Pass.

Set Samsung Pass or Workspace Pass to Use in (a) > = (left directional button) > ~ Connected Devices > Workspace > Run the Workspace browser (Additionally select Microsoft 365 or Add Web Service) > Internet Menu > Settings > General.

Workspace Pass allows you to easily manage the web service ID and password without biometric authentication on mobile devices. For this purpose, you must be signed in to your Samsung account. The password is encrypted to be safely stored on your TV.

However, the log in to Workspace Pass may not work depending on the site policy.

Workspace Pass only working on Workspace.

- 🖉 To securely access the web service, you can use the Workspace browser's automatic shutdown or clear the history logs.
- ℰ Before accessing the web service, refer to "Read Before Using the Internet Function."
- Workspace browser not share data with Internet. (Web browser outside from Workspace)

The web service supports the following keyboard shortcuts:

- F1: Returns to Workspace's Home Screen.
- F5: Refresh.
- F8: Mutes the sound.
- F9/F10: Adjusts the volume.
- F11: Switches between full screen or default screen.

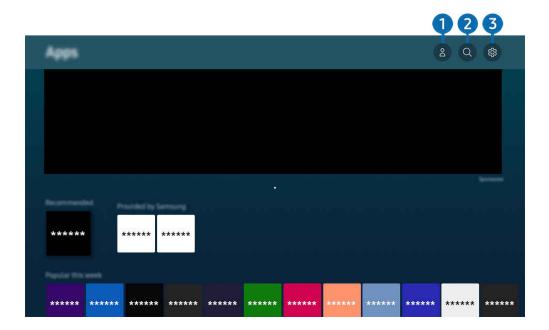
Using the Apps Service

Download and run various apps from Smart Hub.

⑥ > left directional button > ■ Media > ⊗ APPS

You can enjoy a wide range of content, including video, music, sports and game apps by installing the corresponding apps on your TV.

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

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 complete, 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

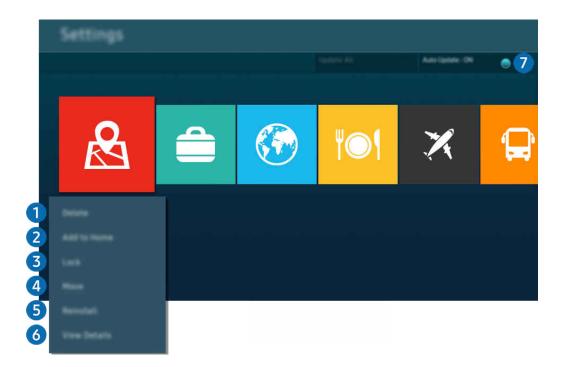
You can run the app desired from Downloaded App.

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 has a password.
- 🔘 : The app needs to be updated.
- 😔 : The app supports the 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. Select 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. Select 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. Select 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." You can set the PIN in
 Settings > All Settings > General & Privacy > System Manager > Change PIN. (iry Now)
- Change PIN may not be supported depending on the model or geographical area.

4 Moving apps

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

The selected app is moved.

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

6 Reinstalling an app

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

Reinstallation starts.

- 6 Checking the app information details
- 1. Select the app to check.
- 2. Select View Details.

The app information screen appears.

ℰ You can rate an app on the View Details screen.

Automatically updating apps

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

 \checkmark Automatic update is enabled only when the TV is connected to the network.

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 (https://www.samsung.com).
- ℰ Some menu screens cannot be accessed from the e-Manual.

Using the buttons in the e-Manual

	e-Manual	Q C & AZ			
6	Contract Care Contract and August the care Not care check and case party				
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✗ The image on your TV may differ from the image above depending on the model and geographical area.

1 ⊂ (Search)

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

② ⊙ (Recently Viewed Topics)

Select a topic from the list of recently viewed topics.

3 🖧 (Sitemap)

It displays the lists for each item in e-Manual.

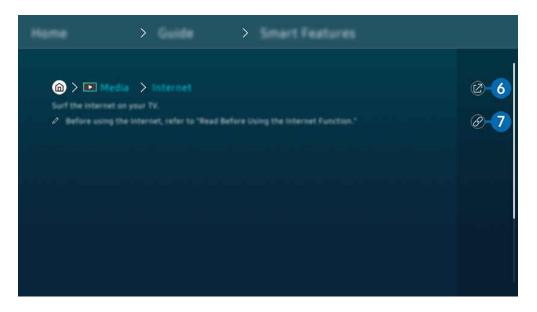
4 A-Z (Index)

Select a keyword to navigate to the relevant page.

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

5 Device Care

Optimize and diagnose the condition of your TV. You can check and clean your storage space, diagnose problems or request technical support.



- 🖉 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.

6 🕜 (Try Now)

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

7 🖉 (Link)

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

Using the Internet

Surf the Internet on your TV.

Ieft directional button > Media > Internet

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

- You can use the **Internet** function more easily after connecting a keyboard and mouse.
- 🖉 You can scroll webpages with the directional button on the Samsung Smart Remote or Remote Control.
- The webpages may differ from those on a PC.
- 🖉 Before using the Internet, refer to "Read Before Using the Internet Function."
- The Internet app has an embedded Samsung Pass Settings (> Media > Internet > Internet Menu > Settings > Samsung Pass).

With **Samsung Pass**, you can log into the website easily and securely. When you visit the website again, you can log in with **Samsung Pass** Biometrics Authentication on your mobile device without entering your ID and password.

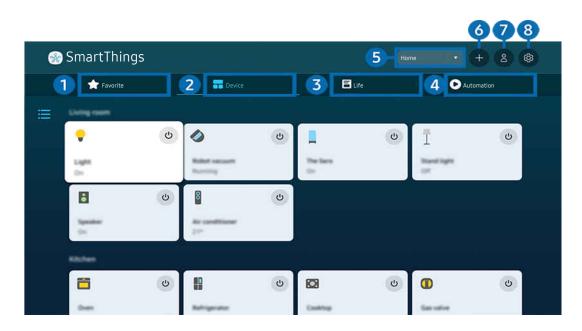
However, this **Samsung Pass** login may not work depending on the website policy. For this purpose, you must have been logged in the mobile device with a Samsung account registered in **Samsung Pass**.

Using SmartThings

It allows the TV to connect and control the detected various devices in the same space.

You can control the devices registered to the SmartThings cloud and devices directly connected to this product with a remote control.

- This function may not be supported depending on the product or model.
- Functions that can be controlled by remote control may not work depending on the location of the device. In this case, move the location of the device.



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

1 Favorite

View devices or features that have been set as favorites from the Device/Life/Automation tab.

2 Device

View devices connected to SmartThings, and use the remote control to select and control any of the connected devices. In Map View, you can move the position of a device to create a custom map and check the device status.

If you log in with the same account used for the mobile SmartThings app, you can view devices, registered through SmartThings, more intuitively from Map View.

List of devices compatible with the TV

Туре	Description Detail	
Devices for IR remote control (IR Sniffing)	Air conditioner, air purifier, robot vacuum cleaner, electric fan, humidifier	
Bluetooth devices	Bluetooth speaker, headset, Soundbar, keyboard, mouse, game pad	
SmartThings devices	For details on SmartThings devices, access https://www.smartthings.com/products.	

🖉 For a detailed list of supported devices, visit www.samsung.com.

 \checkmark This function may not be available depending on the external device.

3 Life

Displays recommended Life services that can be viewed or controlled from SmartThings.

Only Life services supported by the TV are displayed.

4 Automation

View or run scenes created from the Automation tab in the mobile SmartThings app.

5 Location or Device near TV

• Place

Displays all places connected via the SmartThings app.

• Devices near TV

Displays all the detected devices that can be connected and controlled.

You can run the control options after selecting a desired device.

Available options may differ depending on the device.

6 Add Device

Displays the list of devices that can be registered on your TV. You can register any by selecting a device.

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.

8 Settings

Edit devices connected to SmartThings, or configure notification settings for the devices. You can also turn on the TV sensor or the SmartThings hub feature.

SmartThings Quick access

Control most used devices by accessing the 😪 Connected Devices menu, without having to access SmartThings.

Use the SmartThings Hub features (Try Now

Use the SmartThings Hub features on various Samsung products to connect IoT devices (e.g., light bulbs, plugs, or sensors) that are supported by SmartThings.

- ℰ CU7/CU8/BEC series, 32LS03C model: SmartThings Dongle required to connect Zigbee/Thread.
- Make sure to log in to the same Samsung account on your TV as your mobile SmartThings app.
- \checkmark This function may not be supported depending on the connected device type.

Register and manage devices via SmartThings (Try Now

Registering peripheral devices of the TV

- 1. When there is a device detected near the TV, a registration pop-up appears on the TV screen.
 - \checkmark When there is no device detected, the pop-up may not appear.
 - \checkmark To connect a Bluetooth device, make sure that the device has been paired.

2. Select **Register** to register the device.

- To register an appliance, make sure that it uses IR and is detectable in the area around the TV. Supported devices and options may differ depending on the model.
- Select Close. Then the device registration pop-up does not appear.

You can register a device in (a) > \equiv (left directional button) > \sim Connected Devices > \sim SmartThings > Add Device.

(left directional button) > Sonce Connected Devices > Sonce Sonce Sonce Connected Devices > Sonce Sonce Connected Devices (Interview Sonce Connected Devices > Sonce Connected Devices (Interview Sonce Connected Devices > Son

Supportable options may differ depending on the device.

Registering a TV / Smart Appliance / IoT device from the mobile app

Use the mobile SmartThings app to register your TV, smart appliances or various IoT devices. Some IoT devices can only be registered using this mobile app. In the mobile app, tap the + (Add Device) to register a device.

Connect a doorbell to your TV, to receive a notification of the doorbell video and speak with the visitor while watching TV.

Only WWST (Works with SmartThings) certified doorbells are supported. Supported options may vary, depending on the device.

Use the screen's sensors via SmartThings (Try Now

When you activate the sensor, you can see the sensor device on the SmartThings Device tab. You can create various IoT scenarios with TV without purchasing a separate IoT sensor.

- ℰ Each sensor can be activated with user consent.
- ℰ Each sensor may not be supported depending on the model.
- The sound sensor is supported when the microphone switch at the bottom of the TV is turned on. The TV microphone may not be supported, depending on the model or geographical area.

Control SmartThings with Bixby (Try Now

With Bixby on the product, you can control devices connected to SmartThings, as well as the TV, using voice commands.

ℰ This function may not be supported depending on the connected device type.

Control the display device from the mobile SmartThings app (Try Now

From the mobile SmartThings App, use the TV remote control functionality, such as On/Off, Channel, Volume, and four directional buttons. You can also use Search, APPS, Ambient mode, Mobile Cam, and other functions from the mobile app.

Automation (mode/routine) in the mobile SmartThings app allows you to automatically run apps installed on the TV.

With automation, you can turn on the TV at your desired time and automatically run frequently used apps.

Playing pictures/video/music

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

\bigcirc > = (left directional button) > \sim Connected Devices > Connected Device (ry Now

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

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

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

• Filter By

Filters the media content by type of media.

• Sort By

Sorts the content list.

- Inis 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.
- Recorded may not be supported depending on the geographical area.

Playing multimedia content on a PC or mobile device

- 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 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. There is a content list browser shown directly.
 - If a USB device that contains the content you want to play is already connected to the TV, select the USB device in the
 > > = (left directional button) > ~ Connected Devices > Sources screen.
- 3. Select a content item to play from the list.

The selected content is played.

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

Enjoy listening to music in your living space. Visualizations are generated on your TV that alter and respond to the frequency of your music.

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

The selected media is played through the TV speaker.

- This function may not be supported depending on the model.
- In some models, the image of the played content may differ depending on the mode.
- If the TV and the soundbar 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.

- ℰ 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.

• 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.
 - ℰ 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.

If video playback time is 3 seconds or shorter and you press the 😏 button, the video starts from the beginning.

• 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 \bigcirc option or press the \bigcirc button.

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

Slow Rewind or Slow Forward: Allows you to play a video slowly backward or forward by selecting the
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• 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.
- This function may not be supported for some resolutions.
- This function may not be supported depending on the model.

• 360 Auto Rotation

Automatically adjusts the video's viewing angle by analyzing 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:

- G GG General
- (D3 Dynamic
- (N Natural
- This function is only available when **360 Mode** is selected.
- When **360 Auto Rotation** is activated, automatic adjustment is followed. The adjustment position may differ depending on the image.
- ℰ The video's viewing angle is manually adjusted in General mode.
- Inis 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.
- Inis function may not be supported for some resolutions.
- This function may not be supported depending on the model.
- 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.

• Screen Fit

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.

- 🖉 This function is available after enabling the **Background Music** option.
- Options
 - ℰ 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 color.		
Rotate	Rotates the video.		
Audio Language	Changes the audio language.		
Information	Displays detailed information about the current multimedia content.		

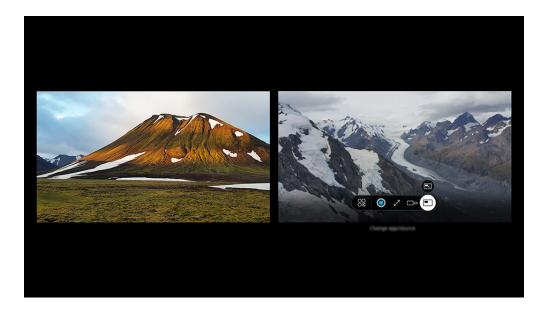
Using Multi View

You can view multiple content items through Multi View.

🧪 This function may not be supported depending on the model.

To start Multi View, navigate to $\textcircled{O} > \equiv$ (left directional button) > O Settings > O Multi View. Next, Select the item you want from the Add View list. Or select Make My Own to configure a custom layout and screen. You can add or delete a screen in the current Multi View screen by pressing the down directional key on the Samsung Smart Remote.

ℰ With 8K models (QN7**C series or higher), you can configure a view with 3-5 screens.



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

When Multi View is running, press the Select button to configure the following menus.

- This function and the provided options for each menu icon may not be available depending on the model and region.
- Content

You can view the currently displayed app or source.

- After selecting a content item, you can control the screen or change the app and source.
- So App/Source

You can select from the content list displayed above.

• 🗆 – Screen Size

Selects the desired size of Multi View.

• ⇒ Screen Position

You can shrink or expand the size of the selected screen.

• Picture-in-Picture

Selects the position of a small screen on the full screen. The focusing left or right screen appears as small window.

• 🦓 Double Audio

You will hear the sound of both screens at the same time by adjusting the ratio of each screens sound.

• **Bluetooth Speaker**

You can hear the sound by connecting the Bluetooth speaker.

• × Delete

You can delete the selected screen.

• ∠ Full Screen

Multi View is ended and then the full screen appears.

To close Multi View, press and hold the 😉 button or press the 🍙 button on the Samsung Smart Remote.

- 🧨 The start and stop of this function can also be voice-controlled by pressing the 🕖 button on the Samsung Smart Remote.
- This function operates only by TV broadcasts, external devices, or apps that support Multi View.
- While running Multi View, app casting from your mobile device is run on Multi View. This function is not available in some apps.
- In some models, you can view the image on the camera connected to the SmartThings app of your mobile device.
- Q-Symphony is not supported by Multi View.
- When an external device that connects to a receiver or Soundbar is used in **Multi View**, sound outputs from the TV speaker, not from the receiver or Soundbar.

Using Bixby

Set Voice Assistant to Bixby. Speak into the microphone on your Samsung Smart Remote or TV to control your TV.

- This function is available only if Voice Assistant is set to Bixby. (> = (left directional button) > Settings > All Settings > General & Privacy > Voice > Voice Assistant) (ry Now
- Bixby is available only when the TV is connected to the network.
- 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.
- The microphone on TV is not 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.

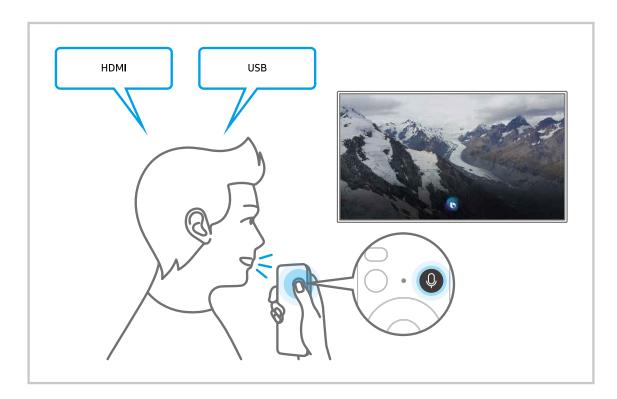
- For best results, you need to be within 10 feet (3-4 m) of your TV. If Bixby does not answer, refer to "I spoke "Hi, Bixby/ Alexa" but Bixby/Alexa does not answer." in "Troubleshooting."
- These functions may not be supported depending on the model or geographical area.

Starting Bixby using buttons on the Samsung Smart Remote

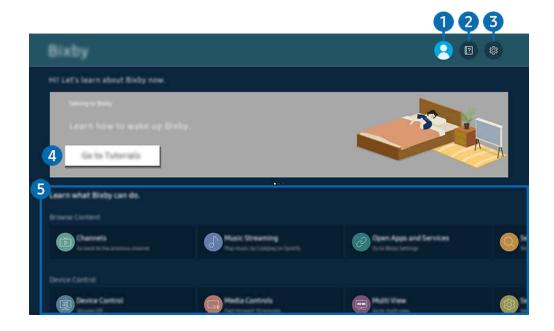
You can have conversation with Bixby using the Samsung Smart Remote buttons. Press and hold the 🔮 button on your Samsung Smart Remote, say a command, and then release the 🔮 button.

For details on how to use Bixby, press the **(**) button once:

• When you 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.



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 🖄 My Profile

Log out after going to the My Profile screen.

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

2 🛛 Tutorials

View tutorials related to the **Bixby**.

3 🕸 Settings

You can change the settings for using Bixby.

- In the support of the support of the model or geographical area.
- These functions can be set in Bixby Settings (> = (left directional button) > Settings > All Settings > General & Privacy > Voice > Bixby Settings). (iry Now

• Language and voice style

You can change Bixby's language and voice style.

- ℰ The languages of the TV and other apps will not change.
- 🖉 Bixby only supports some languages.
- 🖉 This function may not be supported in Bixby depending on the language selected.

• Voice Wake-up

Configure settings on how to wake up Bixby with your voice. You can configure the following settings: Use Samsung Soundbar to interact with Bixby., Bixby wake-up options, and Wake-Up Sensitivity. (\bigcirc > Explore Now > \oslash Settings > Voice Wake-up).

- Interview Wake-up function may not be supported depending on the model or geographical area.
- This function can be used only when the microphone switch at the bottom of the TV is active. The microphone on TV is not supported depending on the model or geographical area.
- For best results, you need to be within 10 feet (3-4 m) of your TV. If Bixby does not answer, refer to "I spoke "Hi, Bixby/ Alexa" but Bixby/Alexa does not answer." in "Troubleshooting."

• Sound feedback

Play a sound when Bixby starts and stops listening.

ℰ This function may not be supported depending on the model.

• Privacy

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

• About Bixby

Displays the detailed terms and conditions.

4 Recommended commands

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

If you do not want to see the recommended commands, set Voice Hint to Off ($\textcircled{O} > \equiv$ (left directional button) > OSettings > All Settings > General & Privacy > Voice > Voice Hint). (ry Now

5 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.

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 network.
- Even if the TV is connected to the network, 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 Find Your Service Provider. Find Your Service Provider can be set in
 > ≡ (left directional button) >
 > Settings > All Settings > Broadcasting > Service Provider Info & Settings. (iry Now)

If the settings for the service provider are not configured yet, configure them in $\textcircled{0} > \equiv$ (left directional button) > 0 Settings > All Settings > General & Privacy > Reset. (ry Now

- & Service provider settings in initial setup may not be supported on geographical area.
- To use the voice text input function and the search function, you must consent to provisions allowing third parties to collect and use your voice data.
- To use the Bixby function, you must:
 - Agree to Smart Hub's Terms of Use.
 - Agree to a guidance regarding the collection and use of personal information for the Smart Hub service.
 - Consent to the collection and use of personal information for the voice interaction-based service.

Provisions for using Bixby

• The voice interaction rate differs with the volume/tone, pronunciation, and ambient sound environment (TV sound and ambient noise).

Using the Game Bar

Control the Game Settings Monitoring and Game Enhancer Settings easily by using the Game Bar.

🧷 This function may not be supported depending on the model.

Starting the Game Bar

When Game Mode (O > \equiv (left directional button) > O Settings > All Settings > Connection > Game Mode Settings > Game Mode) is On or Auto, press and hold the O button on your Samsung Smart Remote to start the Game Bar. (ry Now

Learning about the Game Bar



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

1 Game Picture Mode

Specify the Game Picture Mode according to the current game genre. To customize the picture quality, select Custom.

2 Screen Ratio

You can change the screen ratio from 16:9 (previous setting) to Ultra wide (21:9 or 32:9).

- \checkmark You have to set the resolution from your PC only once at first time.
- The Game Bar's Screen Ratio can be changed only when the Ultra Wide resolution is supported in a game or PC. Whether or not to support the screen ratio of 21:9 and 32:9 depends on the title of the game so be sure to consult the game company.

3 Minimap Zoom

Use the directional buttons and Select button on the remote control to zoom in on specific areas of the game screen and adjust the zoom rate.



• For the Minimap supported resolution, refer to the table below.

Game Bar Screen Ratio	Resolution set in PC
16:9	3840 x 2160 (60/*120 Hz)
21:9	2560 x 1080 (60/*120 Hz)
	3840 x 1600 (60/*120 Hz)
32:9	3840 x 1080 (60/*120 Hz)

*: The refresh rate may not be supported depending on the model.

4 Game Motion Plus

Turn on this function to obtain a softer and clearer picture quality when playing a role-playing game (RPG) or adventure game which involves many dynamic scenes.

5 Game Settings

Moves the menu to Game Mode Settings.

6 Virtual Aim Point

You can see the virtual aim point on the screen.

7 Sound Output

Change the sound output device. (e.g. TV Speaker, Soundbar, Bluetooth headset, etc.)

8 Help Guide

View details on how to use each menu item.

9 Current status display

- Input Lag: Shows the status of game input lag.
- Resolution: Shows the resolution of the currently running game.
- FPS: Shows the number of frames per second in real time. If VRR is active, the frame rate changes.
- HDR: Shown as On when an HDR game is running.
- VRR: Shows the variable refresh rate.

Using FreeSync

The FreeSync feature allows you to play seamless games without video interruption or delay. To use the FreeSync feature, activate the FreeSync feature from the external device.

- Models that support FreeSync Premium Pro
 - QN900C, QN8**C, QN7**C, QN95C, QN90C, QN85C, Q8*C (except for 50-inch model), Q7*C, S95C
- ✗ For the FreeSync supported resolution, refer to "Supported Resolutions for FreeSync (VRR)."

Setting the Super Ultra Wide Game View

Set your PC Screen resolution to match the selected Screen Ratio in the Game Bar before activating the **Super Ultra Wide Game**.

If the TV is connected to a computer and Game Mode is set to either ON or Auto, the wide screen (21:9 or 32:9) is activated from the Game Bar.

- ℰ This function may not be supported depending on the model.
- Check if the game supports Ultra Wide resolution (21:9 or 32:9).
- 🥂 If you set the resolution on your PC for the first time, you can change the Screen Ratio through the Game Bar on your TV.

Game Bar Screen Ratio	Resolution set in PC
	3840 x 1600 (60 Hz)
21.0	*3840 x 1600 (120 Hz)
21:9	2560 x 1080 (60 Hz)
	2560 x 1080 (120 Hz)
70.0	3840 x 1080 (60 Hz)
32:9	3840 x 1080 (120 Hz)

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

- ℰ The supportable resolutions may differ depending on the model or HDMI port connected to the PC.
- After setting the resolution, check if the PC's Window or Mac screen changes when you change the Screen Ratio on the Game Bar of your TV.
- This function may not be supported depending on the OS or device.
- If the connected external device is a gaming device, the function does not work even if you change the name of Source to "PC."
- ▲ While you are playing a game, the screen ratio cannot be changed. Before running a game, first Select the desired screen ratio on the Game Bar and then run the game.

For some games, you need to match the game resolution with the selected screen ratio in the Game Bar.

Changing the Super Ultra Wide Screen position

When playing a game at the Super Ultra Wide resolution, you can adjust the game screen position to the height of your eyes.

At the Super Ultra Wide resolution, use the $^{/\sim}$ (channel) buttons to move the screen position to the top, center, or bottom.

Configuring 144 Hz game settings

If the TV is a model that supports 144 Hz, you can play 144 Hz games.

- Models that support 144 Hz: QN900C, QN95C, S95C, S90C (except for 83-inch model), QN90C (43/50 inches only), S89CB
- Resolutions that support 144 Hz are as follows:

Game Bar Screen Ratio	Resolution set in PC
14-0	1920 x 1080p @ 144
16:9	3840 x 2160p @ 144
21.0	2560 x 1080p @ 144
21:9	3840 x 1600p @ 144
32:9	3840 x 1080p @ 144

Troubleshooting of the game screen and audio problems

After changing the Screen Ratio on the Game Bar, if the game screen and sound are not output properly, try to solve the problems as shown below.

- Check to see if the game supports Ultra Wide or your PC supports the Ultra Wide resolution.
- Restart the game after exiting it.
- Select the same resolution as that of the Game Bar.
- When the Screen Ratio changes properly, the screen appears as shown below.



Using Auracast

You can listen to the TV's audio by connecting to a Bluetooth audio device that supports Auracast.

- ${ }$ This feature is supported in the QN800C series or higher only.
- ℰ This feature may not be supported depending on the models of the mobile device and Bluetooth audio device.

Using Auracast

You can connect a Bluetooth device that supports Auracast to the TV.

Connect a Bluetooth audio device to the TV via the mobile device that is connected to the Bluetooth audio device. This can be done by using the Broadcast menu in the Bluetooth settings in the mobile device.

- ✗ This feature is supported in the QN800C series or higher only.
- This feature can connect the TV to two or more Bluetooth devices that support Auracast, simultaneously.
- This feature cannot connect the TV to a Bluetooth audio device that supports **Auracast** and a Bluetooth audio device that does not support **Auracast** simultaneously.
- The Auracast feature may not be supported depending on the mobile device model.
- Audio volume can be adjusted from the mobile device that is connected to the audio device.
- When this feature is turned on, audio cannot be played from the Bluetooth audio device that is already connected to the TV and does not support Auracast.

Using a password

If you set a password, you should enter the password when you connect an audio device to the TV via a mobile device, before using Auracast.

Changing your password

Change the password you use when connecting to Auracast.

TV Viewing and Recording

Use a variety of convenience features offered by your Samsung TV while watching TV. You can also edit your list of channels and create a list of favorite channels.

Using the Guide

See the programming schedules of different channels on a single screen.

Press the $^{/}$ (channel) button to access the Guide.

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

- ℰ The Record function may not be supported depending on the model geographical area.
- To access information or additional features provided in the **Guide** from analog channels, you must set Service Provider during the initial configuration stage.
- ✓ To view Guide, you must first configure Clock (m) > ≡ (left directional button) > ^(D) Settings > All Settings > General & Privacy > System Manager > Time > Clock). (Try Now
- 🖉 For details on how to use the remote control, refer to the image guide at the top right.

About the Guide screen

Guide				ments have (\$4000
			123/More Options Press & Hold: Fast Search	
-				Press & Hold: Options On Now Page Up/Down
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1 I I I I I I I I I I I I I I I I I I I	Schedule Yorking Here Details	Di Gi Me	dical Examiner	Dr. G. Medical Examiner

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

1 Channel Filter

View channels and programs classified by type.

2 Edit Channels

Edit channels stored on the TV.

🖉 For more information, refer to "Using the channel edit function."

3 Additional options related to broadcast programs

Navigate to the desired program and press and hold the Select button to access the following options:

- 🖉 These functions may not be supported depending on the model or geographical area.
- Schedule Viewing

You can schedule the viewing of a broadcast scheduled program.

• Cancel Scheduled Viewing

You can cancel scheduled viewings.

• View Details

You can see detailed information about the selected program. The information may differ or may not be provided depending on the broadcast signal.

• Record

You can make a recording of a current program.

• Stop

You can stop the recording function that is currently running.

• Edit Recording Time

You can change the start and end times of scheduled program recordings.

• Schedule Recording

You can schedule recording of a broadcast scheduled program.

• Cancel Scheduled Recording

You can cancel scheduled recordings.

Using additional features from the Guide

From the Guide, press either the 🚳 or 🛞 button to use additional features.

- ℰ These functions may not be supported depending on the model or geographical area.
- Channel Filter

You can view channels and programs categorized by the types defined in Channel List.

• Schedule Manager

You can see the Recording & Schedule Manager or Schedule Manager screen.

- For more information about Schedule Recording, refer to "Recording Programs."
- 🖉 For more information about Schedule Viewing, refer to "Setting Up Schedule Viewing."
- Antenna Type

You can change the type of broadcast signals the TV receives.

Recording Programs

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

- Connect a USB device to use the TV's recording features. Carefully read all related precautions before using a recording feature. For more information, refer to "Before Using the Recording and Timeshift Functions."
- ✗ You can record only the programs that are received through an antenna.
- 🧨 The 🚱 appears next to the programs and channels scheduled for recording.
- This function may not be supported depending on the model or geographical area.

The Instant and Timer Recording options from the Guide

- Record
 - 1. Select a program that is currently being broadcast and press the Select button.
 - 2. Select Record from the pop-up menu to start recording.
- Schedule Recording
 - 1. Select a program scheduled to be broadcast, and press the Select button.
 - 2. Select Schedule Recording from the pop-up menu to schedule recording.

Recording while watching a broadcast

- Record
 - 1. On the remote control, press the 🚳 or 🌐 button.
 - 2. Use the directional buttons to navigate to the control pad.
 - 3. Select Record to start recording.
 - 🖉 Or press the 💹 button while watching a broadcast.

• Schedule Recording

- 1. Press the Select button while watching a broadcast to load the program details window.
- 2. Use the left or right directional button to navigate to a program scheduled to be broadcast, and press the Select button.
- 3. Select Schedule Recording to schedule the recording of the program.

Using the recording schedule management screen

- 1. On the remote control, press the 🚳 or 🌐 button.
- 2. Use the directional buttons to navigate to the control pad.
- 3. Select either Schedule Manager or Recordings to access the Recording & Schedule Manager screen.

The following options are available on the **Recording & Schedule Manager** screen:

🖉 Displayed menu options may vary depending on the model.

• Recordings

Watch Recordings.

- Buttons shown on the display will vary depending on the file being played back. For more information about playback controls, refer to "Getting to know Recording and Timeshift controls and options."
- 🖉 From the list, select a recording you wish to watch. The selected recording will start to play.
- Move the focus to a recording to display Play, Delete, and View Details options on the right-side menu.

• Schedule Recording

Navigate to Schedules and press Schedule Recording. Add, edit, or cancel a program recording schedule.

- Specify the Antenna, Channel, Repeat, Date, Start Time, and End Time settings and then select Save to schedule a recording of a specific program at a specific time on a specific date.
- Up to thirty Schedule Viewing and Schedule Recording events may be created.
- Ensure that the TV's Clock() > = (left directional button) > Settings > All Settings > General & Privacy > System Manager > Time > Clock) setting is correct. (Iry Now).

– Edit

Configure the Start Time and End Time settings of a scheduled recording. If a scheduled recording event has been created after selecting a program from Guide, Start Time and End Time can be set as up to ten minutes before and ten minutes after, respectively.

- Delete

Remove a scheduled recording.

- View Details

See detailed information about a scheduled recording.

- Settings
- Start Recording Early

Change this setting so that the recording starts slightly earlier than the program start time shown in the Guide.

- Continue Recording After

Change this setting so that the recording ends slightly later than the program end time shown in the Guide.

Setting Up Schedule Viewing

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

- 🧨 This function may not be supported depending on the model or geographical area.
- To set up a schedule viewing, you must first set the TV's clock (> = (left directional button) > Settings > All Settings > General & Privacy > System Manager > Time > Clock) and set the time. (ry Now)

Using the schedule viewing options from the guide screen

On the Guide screen, select a program 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 program

Press the Select button while watching TV. The Program Info window appears. Select a program 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 program.

Using the viewing schedule management screen

- 1. On the remote control, press the 🚳 or 🏨 button.
- 2. Use the directional buttons to navigate to the control pad.
- 3. Select either Schedule Manager or Recordings to access the Recording & Schedule Manager screen.
- 🧷 Displayed menu options may vary depending on the model.
- Schedule Viewing

Navigate to Schedules and press Schedule Viewing. Add, edit, or cancel a program viewing schedule.

- Up to thirty Schedule Recording and Schedule Viewing events may be created.
- Ensure that the TV's Clock (> = (left directional button) > Settings > All Settings > General & Privacy > System Manager > Time > Clock) setting is correct. (ry Now)
- Edit

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

- Delete

You can delete scheduled viewings.

- View Details

You can view detailed information about scheduled viewings.

Using Timeshift

Watch scenes you missed and rewind to specific points of the program using Time Shift.

To activate Timeshift while watching a broadcast, press either the 🚳 or 🔀 button, and then use the directional buttons on the remote control to select Timeshift or press the 🕲 button. Try Now

Save the current broadcast program you are watching to a USB device to pause at specific scenes, view missed scenes, or rewind to specific points in the timeline.

- When the Timeshift function is running, some functions are not available in
 > = (left directional button) >
 Settings > Broadcasting.
- 🖉 To use Timeshift, you must connect a USB device for recording.
- Read all precautions before using the Timeshift function. For more information, refer to "Before Using the Recording and Timeshift Functions."
- This function may not be supported depending on the model or geographical area.

Getting to know Recording and Timeshift controls and options

These are the controls and options available while recording broadcasts and using Timeshift.

Press the down directional button to display the control pad with the following options:

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

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

- Slow Rewind or Slow Forward: Use a or b button to slow rewind or slow forward. Available speeds are 1/8, 1/4 and 1/2. Press the corresponding repeatedly to quickly increase the speed in slow mode by up to 3 times. To resume playback at normal speed, select b button.
 - While using **Slow Rewind**, you will be able to see the time difference between the recorded broadcast's current time and the rewound time.
- Jump Backward / Jump Forward

Press the up directional button to move the focus to the playback control bar, and then select the left or right directional button in the playback control bar to move backward or forward by 10 seconds in the video.

When the Jump Backward function is activated, you can view the difference between the current recording time and the current rewind time.

• Rewind / Fast Forward

Inis function is not available while you are watching a program that is currently being broadcast.

• Stop Recording / Stop Timeshift

Ends the recording or Timeshift function.

Record

You can 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 in 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 program will be recorded.

- ℰ This function is only available when a program is being recorded.
- Go to Live TV

While using Timeshift to view a previous scene, select Go to Live TV to return to live TV.

• Info

Loads a window containing information about the program being recorded or Time Shift has been activated for.

• Schedule Viewing / Schedule Recording

Add a viewing or recording schedule.

Using the Channel List

Change the channel or check programs on other digital channels.

Use the **Channel List** screen to change channels or see what programs are being broadcast on other digital channels.

Accessing the channel list

Press and hold the $^{/}$ (Channel) button to open the Channel List.

Using the functions on the channel list screen

The Channel List screen icons indicate the following:

• • : A favorite channel.

The following options are accessible from the top left of the Channel List screen.

• Air / Cable

Select Air or Cable as your preferred channel method.

Depending on the incoming broadcast signal, this option may not be supported.

Press the left button while in the Channel List screen to access the following options:

• All Channels

Displays all saved channels.

- *I* The channels received to the currently selected **Air** or **Cable** are displayed.
- Samsung TV Plus

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

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

Favorites

Displays favorite channels from Favorites 1 through Favorites 5.

It displays only the Favorites that includes the favorite channel.

Using the channel edit function

Edit the channels stored on your TV.

Accessing the channel edit screen

- 1. Access the Channel List or Guide.
- 2. Press Edit Channels to access the channel edit screen.

Using the channel edit functions

The Edit Channels screen icons indicate the following:

• • : A favorite channel.

Select a channel from the Edit Channels screen to access the following options:

• Delete / Restore

Remove or recover a registered channel.

Once a channel is removed, it will not appear on Channel List. On the Edit Channels screen, the removed channel will appear in grey. A recovered channel will once again be visible on Channel List.

• Rename Channel

From Edit Channels, select the channel you wish to rename and then select Rename Channel.

- Only one channel can be renamed at a time.
- Available for analog channels only.
- Save and Exit

Save the changes made under Edit Channels and exit.

Using a Personal Favorites List

Create frequently watched channels as favorite channels.

On the Edit Channels and Channel List screens, the ♥ icon appears next to favorite channels.

Creating a Favorites List

1. Access the Edit Channels screen.

🖉 For details on how to access the channel edit screen, refer to "Accessing the channel edit screen."

- 2. Press the left directional button on the remote control to select the desired Favorites.
- 3. Press the right directional button to select Add Channels.
- 4. Select the desired channel in the list on the screen.
- 5. Press Add to add the selected channel to the favorites list.

Select Favorites 1 - Favorites 5 on the Edit Channels screen and the following functions are available.

- 🖉 Up to five Favorites can be created, which allows each member of the family to create their own favorites list.
- Add Channels

In the channel list, select one or more channels to add in the favorite list and then select Add Channels.

Remove

Removes one or more channels from a favorites list.

• Change order

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

• Rename Favorites

Renames a favorites list.

• Save and Exit

Saves and closes the Edit Channels screen.

TV-Viewing Support Functions

Use the functions that are available while watching TV.

Scanning for available channels

- ▲ Do not use this function if your TV is connected to a cable box or satellite box.
- If the TV has saved channels, Auto Program deletes the existing list, and then saves the newly scanned channels.

Using Program Rating Lock

This function is useful for controlling what programs children can watch on the TV based on their ratings. **Program Rating Lock Settings** does not, however, block programs originating from external sources, such as Blu-ray players, DVD players, or USB files.

Every time you access Program Rating Lock Settings, you must enter the security PIN. You must also enter this PIN to watch a blocked program. The default PIN is "0000." To change the PIN, go to $\textcircled{} > \equiv$ (left directional button) > Settings > All Settings > General & Privacy > System Manager > Change PIN. (ry Now)

- Program Rating Lock Settings may not be supported depending on your input signal.
- For more information about how to set your password, refer to "Setting up a password."
- Change PIN may not be supported depending on the model or geographical area.
- 🖉 For more information about the rating system of different countries, refer to "Blocking programs based on their TV Rating."

Watching blocked / restricted programs

To watch a blocked program, enter the PIN when requested.

When initially showing a restricted program or movie, the screen is blank because the **Program Rating Lock Settings** blocks it. Enter the PIN to unblock the program when a message appears requesting the code.

Enable Data Service

(a) > ≡ (left directional button) > @ Settings > All Settings > Broadcasting > Data Service (Try Now)

Access services from entertainment providers, online providers, and CE manufactures through Data Service.

- This function may not be supported depending on the model or geographical area.
- ℰ Some channels may not include the Data Service.

You can use the following functions:

Data Service (Try Now)

Enable or disable data services.

• Do Not Track (Try Now

Ask apps and services not to track your browsing activity.

Private Browsing Try Now

Enable Private Browsing to stop the browser from saving your Internet history.

• Delete Browsing Data (Try Now

Delete all saved cookies.

If you want this function enabled or disabled, use the Data Service menu item to turn it on or off.

An application on broadcast channel may malfunction temporarily depending on the circumstances of the broadcast station or application provider.

Configuring advanced broadcasting audio settings

Audio Options functions differently for analog and digital channels.

- ℰ These functions may not be supported depending on the model or geographical area.
- Preferred Language

This is the language you will hear while watching TV if the language is included in the broadcast signal.

• Multi-Track Sound

You can select the multi-track sound function depending on broadcasting signal.

• Preferred Object Audio

Configure the audio properties of the broadcast to your preferred configuration.

Setting the functions for the service provider

In the section of the section of

Enable or disable the broadcast service provider feature.

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

Viewing broadcast service provider info

Find out who the current broadcast service provider is and look up related information.

ℰ These settings can be configured only for available Service Provider.

Using Secure Channel Viewing

Provides you with warnings about insecure channels.

 ${\mathscr{D}}$ This function may not be supported depending on the model or geographical area.

Checking digital channel signal info and strength

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

Picture and Sound

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

Using Intelligent Mode

Let the TV analyze the surrounding and the content you are watching so that it can provide an upgraded viewing experience.

In Intelligent Mode, the TV recognizes and analyzes the surroundings, noise, the content, and your usage patterns to provide the best viewing experience. You can turn the options below on or off. Create your preferred viewing environment.

- ℰ This function may not be supported depending on the model.
- Adaptive Picture (Try Now
 - Optimized

Optimizes brightness and provides the best picture quality in real time, based on the lighting condition and the content you're viewing.

- EyeComfort

EyeComfort syncs the sunrise/sunset times and ambient light intensity. After sunset, the mode provides warmer colors and lower brightness. The sunrise and sunset times can manually be changed.

- This function may not be supported by some models, modes or apps. (e.g., Ambient Mode, Art Mode, and Game Mode).
- ✓ To use EyeComfort, first you need to set the current time. Configure the Clock(> = (left directional button) >
 Settings > All Settings > General & Privacy > System Manager > Time > Clock) setting. (Iry Now
- The sunrise/sunset time sync function provided in **EyeComfort** may work differently, depending on the area and network connection.

• EyeComfort Mode Settings

This function is available only when Adaptive Picture is set to EyeComfort.

- EyeComfort Mode Duration

Set the sunrise and sunset time automatically. Or you can manually select the schedule.

Start Time

Set the Start Time manually.

- *I* This function is available only when **EyeComfort Mode Duration** is set to **Custom**.
- End Time

Set the End Time manually.

I This function is available only when **EyeComfort Mode Duration** is set to **Custom**.

- EyeComfort Mode Level

Adjust the level of the EyeComfort Mode screen.

Active Voice Amplifier (Try Now

Analyzes ambient noise and provides optimal sound depending on the noise.

- This function is available only when the microphone switch at the bottom of the TV is active and the sound output is set to TV Speaker. The location of the microphone switch may vary depending on the model or geographical area. The microphone on TV is not supported depending on the model or geographical area.
- While using this function, the TV does not save the data.
- This function may not be supported by some modes or apps (e.g., Game Mode).

Adaptive Sound Pro (ry Now)

Provides optimized sound quality by analyzing the viewing space and the acoustic components of the content.

- This function can be used only when the microphone switch at the bottom of the TV is active and the sound output is set to **TV Speaker**. The microphone on TV is not supported depending on the model or geographical area.
- This function may not be supported by some modes or apps (e.g., **Ambient** Mode, **Game Mode**, **Art** Mode, and apps that control the TV sound).
- Mhile using this function, the TV does not save the data.
- This function may not be supported depending on the model.
- Internation The name of this function may appear differently depending on the model.

Adaptive Sound

Provides optimized sound quality by analyzing the viewing space and the acoustic components of the content.

- 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 modes or apps (e.g., **Ambient** mode, **Game Mode**, and apps that control the TV sound).
- Inis function may not be supported depending on the model.

Adaptive Volume (Try Now

Automatically adjusts to a specific volume level while you are watching TV. The TV analyzes 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.
- Inis function may not be supported by some apps or external devices.
- Let 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

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

- Entertain and Graphic are supported only when you change the external device name to PC in PC mode.
- Dynamic

Makes the picture brighter and clearer in bright viewing environments.

• Standard

Is the default mode suitable for general viewing environments.

• Eco

This screen is provided to save energy.

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

• Movie

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

• FILMMAKER MODE

This screen mode provides picture quality certified by UHD Alliance. The image defined as **FILMMAKER MODE** automatically switches to **FILMMAKER MODE** while watching.

- 🖉 This function may not be supported depending on the model or geographical area.
- FILMMAKER MODE may look darker than other picture modes.
- Vou can change **FILMMAKER MODE** to a different **Picture Mode**. However, the changed **Picture Mode** will be maintained even after watching the picture defined by **FILMMAKER MODE**.
- ILMMAKER MODE™ logo is a trademark of UHD Alliance, Inc.

Configuring advanced picture settings

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

Brightness Try Now

Adjust the overall picture brightness. The closer to 50, the brighter the picture.

Contrast Try Now

Adjust the difference between the darkest and brightest areas between objects and their background. The closer to 50, the larger the difference.

• Sharpness Try Now

Adjust the outline sharpness of objects. The closer to 20, the sharper the object outlines.

• Color Try Now

Adjust the chroma of a video. The closer to 50, the deeper the colors.

• Tint (G/R) Try Now

Adjust the color tone. The higher either value, the redder or greener the video.

• Apply Picture Settings (Iry Now

Apply the selected picture settings to the current input source or all input sources.

• Picture Clarity Settings (Try Now

Optimize a video that has many dynamic scenes.

- Mhen LED Clear Motion or Clear motion is set to On, the screen appears darker than when it is Off.
- Local Dimming Try Now

Maximize the contrast ratio by automatically adjusting brightness for each section of the picture.

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

Contrast Enhancer (ry Now

Automatically adjust the contrast to prevent excessive brightness differences between brighter and darker areas.

• Auto HDR Remastering Try Now

Enjoy HDR-like picture quality – even with SDR content.

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

HDR Tone Mapping (Try Now)

Automatically adjusts the brightness with tone mapping processing according to the HDR content information.

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

• Film Mode (Try Now

Touch up an old video to improve the picture quality for a better viewing experience.

- This function is only available when the input signal is TV or HDMI (1080i). The terminals and inputable signals may differ depending on the model.
- Color Tone (Try Now)

Select an appropriate color tone, according to the viewing situation.

• White Balance (Try Now

Adjust the brightness of the colors red, green and blue so that the brightest area of the picture becomes white.

• Gamma (Try Now

Adjust the medium brightness of a video.

• Shadow Detail (Try Now)

Adjust the brightness of a dim picture. The closer to 5, the brighter the dim picture.

Color Space Settings (Try Now

Select a range of colors that can be expressed on the picture.

• Smart Calibration (Try Now)

Automatically adjust the picture quality of a movie to obtain the quality intended by the movie producer.

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

To use this function, use a Smartphone that is compatible with the function. The list of compatible models is shown below.

- Galaxy models: Galaxy S, Galaxy Note, Galaxy Fold, and Galaxy Flip series models that were released after January 2019.
- iPhone models: Models with a Face ID function that were released after January 2019.
- ✓ Supported models may differ depending on the situation.
- Peak Brightness

Adjust the maximum peak brightness for a brighter screen.

- 🖉 This function may not be supported depending on the model or geographical area.
- Reset Picture Try Now

Reset the picture settings to the default values.

Changing the Picture Size and Position

Change the picture size and position for your TV.

Changing the picture size settings

These functions may not be available on Samsung TV Plus and some applications.

• Picture Size Try Now

You can change the size of the picture displayed on the TV screen to 16:9 Standard, Custom, or 4:3.

🖉 Supported picture sizes differ with the input signal. For more information, refer to "Picture sizes and input signals."

• Fit to Screen (Try Now

Fitting the picture to the screen.

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

Zoom and Position (Try Now)

Adjusting the picture size or position.

- *I* This function is available only if **Picture Size** is set to **Custom**.
- Z To change the picture position on analog channels, first enlarge the picture and then change the position.

Setting the Viewing Environment for External Devices

You can optimize the TV for viewing specific video formats.

Playing games on an optimized screen

(left directional button) > @ Settings > All Settings > Connection > Game Mode Settings > Game Mode (Try Now)

You can set the Game Mode to optimize the TV screen for better gaming performance.

When you connect a video game console such as PlayStation and Xbox, Game Mode is set to Auto. When you connect the other game source such as PC, set the Game Mode to On through the above path. You can also set the Game Mode quickly from Home Screen (O > \equiv (left directional button) > O Settings > Game Mode O).

- ℰ This function may not be supported depending on the model.
- ℰ The game mode is not available for normal TV viewing.
- 🧷 The screen may shake somewhat.
- When you press and hold the D button on the Samsung Smart Remote for 1 second or more in Game Mode, the Game Bar appears. This function may not be supported depending on the model.
- When Game Mode is enabled, Picture Mode and Sound Mode are switched to Game automatically. Sound Mode may not be automatically switched depending on the selected audio device on the Sound Output menu.
- Men Game Mode is set to On, some functions are not available.
- To use a different external device on the same port, remove the game console connection, set Game Mode to Off, and then connect the external device to the port.
- The Game Mode functions used for Nintendo Switch™ are subject to change without prior notice.

Setting the Game Mode details

Image: Setting > Connection > Game Mode Settings > All Settings > Connection > Game Mode Settings Image: Setting > Setting > Connection > Game Mode Settings Image: Setting > Setting > Setting > Connection > Game Mode Settings

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

Virtual Aim Point (Try Now

You can see the virtual aim point on the screen.

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

Surround Sound (Try Now

You can make your games more immersive by using intense, three-dimensional sound optimized for games.

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

Dynamic Black Equalizer (Try Now)

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

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

Game Motion Plus Settings (Try Now)

You can configure the Game Motion Plus settings.

This function may not be supported depending on the model.

- Game Motion Plus

Turn on this function to obtain a softer and clearer picture quality when playing a role-playing game (RPG) or adventure game which involves many dynamic scenes.

- Blur Reduction

Reduce game screen blur to optimize fast-moving images.

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

- Judder Reduction

Remove flicker from a game video to play the game with a clearer picture quality.

- LED Clear Motion

Turn on this function to adjust the LED backlight to make dynamic scenes look clearer.

- \checkmark This function may not be supported depending on the model.
- Clear motion

Turn on this function to make dynamic scenes look clearer.

- \checkmark This function may not be supported depending on the model.
- Game Picture Expert

You can adjust the options for specific picture quality features of your game.

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

- HDR10+ GAMING

Basic mode provides the most accurate representation of the game's original creative intent. Advanced mode provides enhanced representation of game content to maximize visual impact.

- Game HDR

In accordance with the HGiG (HDR Gaming Interest Group) standard, it sets the optimal image quality for HDR games according to the brightness information of the contents.

- ℓ When HDR sources are input in Game Mode, this menu is activated.
- Game HDR entry path may be different in some models. (
 Settings > Connection > Game Mode Settings > Game HDR)

Using Cable Box IP Remote

Set the cable box that supports IP control to be controlled with Samsung remote control.

🧪 This function may not be supported depending on the model.

Using Input Signal Plus

Expands the input signal range for HDMI connections.

- If the Input Signal Plus feature is turned off, HDR signals sent from an external device cannot be received.
- When you select the HDMI connector you want to use for Input Signal Plus, and then press the Select button to set the Input Signal Plus function to On, the TV screen may flicker.
- When you connect the TV to an external device that supports only the UHD 24 Hz or UHD 30 Hz frequency, or any FHD frequency, the Input Signal Plus function may not be available. In this case, turn off the Input Signal Plus function.
- For more information about the supported UHD resolutions, refer to "Supported Resolutions for UHD Input Signals."
- For more information about the supported 8K resolutions, refer to "Resolutions for Input Signals supported by 8K models (QN7**C series or higher)."

Using HDMI Black Level

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

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

Configuring a Sound Mode and Expert Settings

Change the Sound Mode and adjust Expert Settings.

Choosing a sound mode

 \bigcirc > = (left directional button) > \oslash Settings > All Settings > Sound > Sound Mode (ry Now

You can select the available sound mode that you prefer for a content type or your listening environment.

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

Configuring advanced sound settings

\bigcirc > = (left directional button) > \oslash Settings > All Settings > Sound > Expert Settings (ry Now

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

- Supported menu options may vary depending on the Sound Output setting.
- Balance Try Now

Adjust the volumes of the left and right speakers to balance the sound levels.

- When the TV is used in portrait mode, the Balance function may not work properly.
- Equalizer Try Now

Customize the TV sound by adjusting the volume of high-pitched and low-pitched sounds.

- ✓ This function is not available when the Adaptive Sound Pro or Active Voice Amplifier function is turned on.
- This function is not available when the Sound Mode function is set to Adaptive Sound, Game, or Amplify.
- Intername and properties of this function may appear differently depending on the connected external device.

HDMI-eARC Mode (Try Now)

You can connect an audio device that supports eARC via HDMI-eARC. Muting occurs temporarily during device connection.

🖉 This function may not be supported depending on the model.

Digital Output Audio Format (Try Now)

Select a digital audio output format. If you select Auto, the audio output mode automatically changes to the mode supported by the connected soundbar or A/V receiver.

If you select the Pass-Through option, audio data is output with no processing.

ℓ This function is available when the input source is HDMI and the receiver is connected via HDMI-eARC.

Digital Output Audio Delay (ry Now

Adjust the output delay time for digital audio.

- This function is available when the input source is HDMI and the receiver is connected via HDMI-ARC or HDMI-eARC. When the receiver can't process the input source, it may operate in the Auto option.
- ✓ This function may not be supported depending on the model.

• Dolby Atmos Compatibility

You can set the TV to allow Dolby Digital+ with Atmos streams that are input from external devices.

Set to **On** if the audio device connected via HDMI (eARC) supports Dolby Atmos. The TV screen may flicker when this function is turned on or off.

- 🖉 If this function is on, set Digital Output Audio Format to Auto.
- This function may not be supported depending on the model.
- Dolby Atmos

When watching TV using the embedded speakers, the virtual surround sound effect of Dolby Atmos can be turned on or off. If the TV has been installed in portrait mode by using separate accessories, the virtual surround sound effect through the TV speakers does not work.

This function may not be supported depending on the model.

• Auto Volume (Try Now

Automatically adjusts the sound to a certain level when changing channels or switching to another external input.

Sound Feedback (Try Now)

Plays the notification sound when manipulating a menu or selecting an option.

• Simultaneous Optical Output

The device connected via optical always outputs sound.

• Auracast

You can listen to the TV's audio by connecting to a Bluetooth audio device that supports Auracast.

- In this function may not be supported depending on the model or geographical area.
- 🖉 Some models support the Auracast feature. For more information about Auracast, refer to "Using Auracast."

Reset Sound Try Now

Reset changed sound settings.

Using the Sound Support Functions

Configure the sound settings for your TV.

Selecting speakers

(a) > ≡ (left directional button) > ⊕ Settings > All Settings > Sound > Sound Output (Ty Now)

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

- 🖉 If the soundbar is connected to the TV via both HDMI and Optical, HDMI may be selected first even if you select Optical.
- External speakers may not be controlled with the Samsung Smart Remote. When an external speaker is enabled, some sound menus are not supported.

Samsung TV supports the Q-Symphony function.

• Q-Symphony links Samsung speakers to your TV speakers to play sounds from the different speakers simultaneously, offering the ultimate surround sound experience.

Your Samsung TV supports a USB sound device connection.

- USB 2.0 and higher devices are supported.
- Two USB sound devices can be connected at the same time.
- Make sure to connect a USB sound device directly to a USB port. (USB hubs are not supported.)
- ℰ Some USB sound device models may not be compatible with the TV.

Listening to the TV through Bluetooth devices

O > = (left directional button) > O Settings > All Settings > Sound > Sound Output > Bluetooth Speaker List

You can connect Bluetooth audio devices to the TV. They must be paired using the TV's Bluetooth function. Refer to the user manual for your audio device such as Bluetooth speaker, soundbar, and headphones for detailed connection and usage.

- 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 or 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."
- 🖉 On some models, you can connect and use two Bluetooth devices simultaneously.
- If multiple BT audio devices and BT input devices are simultaneously connected, sound from the audio devices may be choppy or key data from the input devices may be dropped.

The number of BT audio devices for connection can be limited to one device, for a stable game service.

If a call comes in while you listen to TV sound with Galaxy Buds, the Buds connects to the mobile phone and the TV sound is muted for connecting to the call.

When the call is ended, the Buds automatically connects to the TV. This feature is supported only when the TV and mobile phone are connected to the same Samsung account.

- 🖉 If the Galaxy Buds is disconnected while listening to TV sound with the Buds, the TV sound is muted.
- 🖉 Some models support the Auracast feature. For more information about Auracast, refer to "Using Auracast."

Playing TV sounds by configuring Q-Symphony Settings

Ieft directional button > @ Settings > All Settings > Sound > Q-Symphony Setup

Use the Q-Symphony Setup feature to configure wired or wireless symphony settings.

- Configuring wired symphony settings is possible only when a Samsung audio device that supports wired symphony functionality is connected to HDMI or Optical.
- ✗ For Samsung audio devices that support Wi-Fi and Q-Symphony, it is possible to configure wireless symphony settings.
- It is not possible to turn on wired symphony and wireless symphony modes simultaneously.
- ✗ Some models can connect to two wireless audio devices at the same time.
- ℰ This feature may not be supported, depending on your TV model and Samsung audio device.
- 🧨 If you set a Samsung wireless audio device as a device for wireless symphony, it is possible to set a position.
- Position setting may not be supported, depending on the Samsung wireless audio device.

For device specifications, refer to the user manual for the Samsung audio device.

This function is not supported if your TV model is The Frame and installed in portrait orientation. To use the TV in landscape orientation, set up the feature again.

If Samsung soundbars or Samsung wireless speakers that support Q-Symphony are connected, surround sound configuration can be used when the following conditions are met.

- Two or more Samsung wireless speakers of the same type are connected to the same wireless network.
- A Samsung audio device that supports Wi-Fi is connected to the same wireless network as the TV.
- For details on how to connect and use a Samsung audio device that supports Wi-Fi, refer to the device user manual.
- ✗ Some Samsung wireless audio devices may not support a configuration that includes soundbars.

If you turn on screen mirroring mode while using a Samsung audio device that supports Wi-Fi, the connection is disconnected.

System and Support

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

Using the Time Functions and the Timers

Set the current time and use the timer function.

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

You must set the clock in the following cases:

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

Setting the clock automatically

- This function works only when the TV is connected to the network or is receiving digital broadcasts through a connected antenna.
- The accuracy of the time information received may differ with the channel and signal.
- If you get your TV signal from a cable broadcast receiver/set-top box or a satellite receiver/satellite set-top box connected to an HDMI or Component port, you must set the current time manually.

Adjusting the clock for DST and time zone

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

• Time Zone

Selects your 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.
- DST

Automatically adjusts for Daylight Saving Time (DST).

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

Changing the current time

 $\textcircled{O} > \equiv$ (left directional button) > O Settings > All Settings > General & Privacy > System Manager > Time > Clock > Time Offset (ry Now)

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 a network.

Setting the clock manually

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

When power is cut off and then supplied, the settings for Date and Time are reset to deactivate the On Timer. When their settings are assigned again, the On Timer is activated.

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 for up to 180 minutes after which it will turn off the TV.

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Turning on the TV using the on timer

You can set **On Timer** to turn on the TV automatically at a specific time. **On Timer** is only available if the **Clock** has been set. It is also available when **Clock Mode** is set to **Auto**, and the network or broadcast TV tuner is connected.

- To use this function, first set the Clock (
 → Ξ (left directional button) >
 ⊕ Settings > All Settings > General & Privacy
 > System Manager > Time > Clock). (
 Fry Now
- ✗ 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 (
 → = (left directional button) >
 ⊕ Settings > All Settings > General & Privacy
 > System Manager > Time > Clock). (
 Try Now
- This function may not be supported in some viewing modes.
- ✗ This function may not be supported depending on the model or geographical area.

Using the Power and Energy Saving Functions

Use the power saving functions to reduce the TV power consumption.

Reducing the power consumption of the TV

Reduce energy consumption by changing your power preferences and other energy-saving options.

• Brightness Optimization (Iry Now

Automatically adjust the picture brightness based on the ambient light level.

Inis function is not available when the Adaptive Picture function is turned on.

Minimum Brightness (Try Now

When Brightness Optimization is turned on, you can manually adjust the minimum brightness of the TV screen. This function acts only when the value is less than the setting in $\textcircled{}{} > \equiv$ (left directional button) > Settings> All Settings > Picture > Expert Settings > Brightness. (Iry Now)

I This function is not available when the **Adaptive Picture** function is turned on.

Energy Saving Solution (Try Now)

Reduce power consumption by adjusting brightness settings.

Motion Lighting (Try Now)

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

I This function is not available when the **Adaptive Picture** or **Game Mode** function is turned on.

• Power Off Mode

Choose which screen mode you would like when the power is turned off.

ℰ This function may not be supported depending on the model.

Screen Saver (ry Now

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

- ℰ This function may not be supported depending on the model.
- If your TV displays the same still image for 2 minutes, Screen Saver is automatically activated. Screen Saver cannot be turned off, to ensure protection of pixels. (S8*C/S9*CSeries)

• Auto Power Saving (Try Now

When the TV is connected to Wi-Fi, this feature checks Wi-Fi signals and remote control usage data to determine whether the TV is used. If the TV is left idle, the feature automatically switches off the screen.

- ✓ This function may not be supported depending on the model.
- ℰ This feature may not be supported, depending on the Wi-Fi router.

• Auto Power Off Try Now

Automatically turns off the TV to reduce unnecessary power consumption if the TV Controller and the remote control are not used for the set period of time.

🖉 In some regions, the Auto Power Off function may not be supported when Samsung TV Plus is operating.

• Available Remote Battery Try Now

You can check the Samsung Smart Remote's remaining amount of the battery.

This function may not be supported depending on the model.

Using the Panel Care Functions

Adjusts settings to protect the screen.

Setting the Panel Care (S8*C/S9*C Series only)

ℰ This function is supported on the S8*C/S9*C series only.

• Pixel Shift

Moves pixels at regular intervals to prevent screen issues.

- When the **Pixel Shift** mode is used, some of the screen edges may move outside the screen borders and may not be visible. To fix the screen at the home position, turn off the **Pixel Shift** mode.
- 🖉 To prevent afterimage when viewing content with a lot of static images, turn on the Pixel Shift mode.
- Adjust Logo Brightness

Prevents screen issues by lowering the brightness of fixed images, such as logos and banners.

• Pixel Refresh

Adjusts pixels to provide a clearer screen. Some features, such as reservation, recording, and voice recognition, do not work during Pixel Refresh.

 \checkmark Run this function when there are after-images on the screen.

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 may be reset to their defaults after a software update.

Updating through the network

- ✗ Updating from the network requires an active network connection.

Updating through a USB device

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

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

Updating the TV automatically

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

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

- 🥒 This function may take a longer time if another network function is running concurrently.
- ℰ This function requires a network connection.

Using the Parental Settings function

Configure content or app security settings.

Restrict access to content or apps that require parental guidance. Locked content or apps can be accessed by entering the password.

Parental Lock (Try Now

Enable or disable all Parental Settings.

Program Rating Lock Settings (ry Now

This function is useful for controlling what programs children can watch on the TV based on their ratings.

- For more information, refer to "Using Program Rating Lock."
- App Lock Settings Try Now

Set the installed app to lock or unlock.

Using the Gesture function

Use your custom Gesture to easily control the TV.

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

Connect a camera to the TV, and use your custom Gesture to easily save and load services or settings.

• Gesture Interaction

Enable or disable the gesture interaction feature. To enble this, an optical recognition device, such as a USB camera, is required.

- This may not work for some functions.
- Gesture Guide

Enable or disable to display the Gesture Guide.

• Delete Saved Gesture

Delete the Gesture you saved.

• Learn Gesture Functions

Check out how to use Gesture functions.

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

Running Accessibility Shortcuts

The Accessibility Shortcuts provide easy access to the accessibility functions. To display the Accessibility Shortcuts, press and hold the +/- (Volume) button for 2 seconds or more. You can easily turn on or turn off the functions, such as Voice Guide, Audio Description, Caption, Sign Language Zoom, Sign Language Guide, Learn TV Remote, Learn Menu Screen, Picture Off, Multi-output Audio, High Contrast, Zoom Menu and Text, Grayscale, Color Inversion, Slow Button Repeat, Accessibility Settings, etc.

- Even if the Voice Guide is set to Off or muted, the voice guide for Accessibility Shortcuts is enabled.
- 🖉 The shortcut menus may not appear depending on the model or geographical area.
- 🧪 The menu name may differ depending on the model.

Enabling voice guides for the visually impaired

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

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

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

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

You can configure the Volume, Speed, Pitch, and the TV Background Volume of the voice guide.

The TV screen is turned off but audio continues

Turn off the TV screen and provide only sound to reduce overall power consumption. When you press a button on the remote control other than Volume and Power while the screen is off, the TV screen turns back on.

Enlarge the screen

Enlarge the screen to make the picture or text bigger. You can adjust the zoom level or move the zoom area by following the displayed instructions.

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

Enabling audio for the audio (video) description function

(left directional button) > @ Settings > All Settings > General & Privacy > Accessibility > Audio (Video) Description (ry Now)

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.

- 🧪 The menu name may differ depending on the model.
- ℰ This function may not be supported depending on the model or geographical area.

White text on black background (high contrast)

You can change Smart Hub and setting menu screens to white text on a black background and change the transparent TV menus to opaque automatically so that text can be more easily read.

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

Setting the screen to black and white

You can change the color of the TV screen to black and white to sharpen blurred edges caused by colors.

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

Inverting the screen color

(a) $\geq \equiv$ (left directional button) $\geq \otimes$ Settings \geq All Settings \geq General & Privacy \geq Accessibility \geq Color Inversion (Try Now)

You can invert the colors of the text and background for the setting menus displayed on the TV screen to make it easier to read them.

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

Setting the outline emphasis feature for viewers with low vision

This feature increases the contrast and brightness of the screen and emphasizes the outlines of images, so that viewers with low vision can see the screen more clearly.

This feature is only available when the input signal is TV or HDMI. It may not be available for some videos.

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

Enlarging the font (for the visually impaired)

 \bigcirc > = (left directional button) > \circledast Settings > All Settings > General & Privacy > Accessibility > Zoom Menu and Text (ry Now

You can enlarge the size of the font on the screen. To activate, set Zoom Menu and Text to On.

Learning about the remote control (for the visually impaired)

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

Learning about the TV menu

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

Showing captions

I cleft directional button) > @ Settings > All Settings > General & Privacy > Accessibility > Caption Settings (ry Now)

Set Caption to On to watch programs with the captions displayed.

- Captions are not displayed by programs that do not support captions.
- This function has no relationship with the features for controlling subtitles of DVD or Blu-ray players. To control DVD or Blu-ray subtitles, use the subtitle feature of the DVD or Blu-ray player and the player's remote control.

Splitting the caption

(a) $\geq \equiv$ (left directional button) $\geq \otimes$ Settings \geq All Settings \geq General & Privacy \geq Accessibility \geq Caption Settings \geq Separate Closed Caption (ry Now)

You can display the caption in the area separated from the broadcast screen.

🖉 This feature is enabled when Digital Closed Caption is supported.

Selecting the caption language

• Default / CC1 ~ CC4 / Text1 ~ Text4

Operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcast signal, the analog caption function may or may not work with digital channels.)

• Default / Service1 ~ Service6 / CC1 ~ CC4 / Text1 ~ Text4

Works with digital channels. These functions may not be available in digital caption mode depending on the broadcast.

Setting the digital caption related options

(left directional button) > @ Settings > All Settings > General & Privacy > Accessibility > Caption Settings > Digital Caption Options (Try Now)

You can change the font color, background color, size settings, and position, etc.

- The foreground and background colors and opacity settings cannot be the same.
- In Position function is activated only for programs that support broadcast captions.

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

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

- ℰ This function may not be supported depending on the model or geographical area.
- 🖉 For more information, refer to "Listening to the TV through Bluetooth devices."

Enlarging the sign language screen for the hearing impaired

You can zoom in the sign language screen when the program you are watching provides it. First, set Sign Language Zoom to On, and then select Edit Sign Language Zoom to change the position and magnification of the sign language screen.

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

Configure Sign Language Guide options

You can configure the size, speed, position, and mode of the sign language guide.

Configuring the repeat settings for remote control buttons

You can configure the operation speed of the remote control buttons so that they slow down when you continually press and hold them. First, set Slow Button Repeat to On, and then adjust the operation speed in Repeat Interval.

Setting the color correction feature for users with color blindness

This feature helps users with color blindness experience richer colors.

Use this feature to customize the colors for your unique viewing conditions, to experience richer colors on the screen.

- ℰ When SeeColors Mode is in use, some menus are disabled.
- This function may not be supported depending on the model.

Using Voice Assistants on the TV

You can change the settings of a Voice Assistant after selecting it.

Select the Voice Assistant

$\textcircled{O} > \equiv$ (left directional button) > O Settings > All Settings > General & Privacy > Voice > Voice > Voice Assistant (ry Now)

Select which Voice Assistant you would like to help control your TV.

- ✗ To use this function, the TV must be connected to the network.
- This function and Voice Recognition Solution Partner may not be supported depending on the model or geographical area.
- Voice Assistant only supports some languages, and the supported functions may differ depending on the geographical area.
- The Voice Wake-up function may not be supported depending on the model, Voice Assistant or geographical area.

• Bixby / Amazon Alexa

- Z To use the Voice Assistant, follow the instructions on the TV screen to enable the selected Voice Assistant.
- ✓ To change the settings for Voice Assistant, run the Settings menu under each Voice Assistant () > ≡ (left directional button) > ③ Settings > All Settings > General & Privacy > Voice > Voice Assistant). (Iry Now)
- Z To enable the Settings menus for each Voice Assistant, log in each Voice Assistant.
- For an example of Voice command, see the Settings menus for each Voice Assistant.

Using Other Functions

You can view other functions.

Changing the menu language

 $\textcircled{O} > \equiv$ (left directional button) > \circledast Settings > All Settings > General & Privacy > System Manager > Language (ry Now)

Setting up a password

The PIN input window appears. Enter a PIN. Enter it again to confirm it. The default PIN is "0000."

- ℰ This function may not be supported depending on the model or geographical area.
- If you forget your PIN, you can reset it with your remote control. With the TV turned on, press the following buttons on the remote control in the order shown to reset the PIN to "0000."

Press +/- (Volume) button. > Volume Up > \bigcirc > Volume Down > \bigcirc > Volume Up > \bigcirc .

Selecting Usage or Retail Mode

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

- For all other uses, select Home Mode.
- Use Retail Mode only in a store. With Retail Mode, some functions are disabled, and the TV settings automatically reset after a preset amount of time.
- ℰ This function may not be supported depending on the model.

Using the Maintenance Mode

Protect your personal information while the TV is repaired or used by someone else. Once service mode turns on, access to the apps or content is blocked. To back up data in which settings are saved, connect a USB stick to the TV.

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

Setting up the Button Lock

You can set the TV Controller button lock. If this function is **On**, you cannot use TV Controller button.

I This function may not be supported depending on the model.

Setting up the USB Lock

You can block connection to any external USB device.

🧷 This function may not be supported depending on the model.

Setting up the Zero Touch Configuration

Set up the device via Tizen Business Manager. Before using Zero Touch Configuration, register the device at Tizen Business Manager.

🧪 This function may not be supported depending on the model.

Using the Cold Weather Mode

🧪 This function is supported only in The Terrace.

For more information on Cold Weather Mode, refer to the user manual that came with the TV.

🧪 The menu name may differ depending on the model.

Managing External Devices

When you connect external devices, such as mobile devices or tablets connected to the same network as the TV so you can share content, you can view the list of allowed devices and connected devices.

• Access Notification

Set whether to display a notification when an external device such as a mobile device or tablet attempts to connect to the TV.

• Device List

Manage a list of external devices registered to the TV.

Using AirPlay

You can use AirPlay to view content from your iPhone, iPad, or Mac on the TV screen.

 ${ \not\!\!\! \ }$ This function may not be supported depending on the model.

Restoring the TV to the factory settings

 \bigcirc > = (left directional button) > \oslash Settings > All Settings > General & Privacy > Reset (ry Now

You can restore all TV settings to the factory defaults.

- 1. Select Reset. The security PIN entry window appears.
- 2. Enter the security PIN, and then select **Reset**. All settings are then reset. The TV turns off and on again automatically and displays the Initial Setup screen.
- For more information on Reset, refer to the user manual that came with the TV.
- If you skipped some steps in the initial setup, run Set Up TV (> = (left directional button) > < Connected Devices > TV > down directional button > Set Up TV), and then configure the settings in the steps you skipped. This function may not be supported depending on the model or geographical area.

Precautions and Notes

Instructions and information that you must read after installation are available for you.

Before Using the Recording and Timeshift Functions

Read these instructions before using Recording and Timeshift.

Before using the recording and schedule recording functions

- Recording and schedule recording are not supported in the U.S.A. and Canada.
- Recording may not be supported depending on the model or geographical area.
- To schedule a recording, set Clock Mode to Auto. Set the Clock.
 - (a) > ≡ (left directional button) > (b) Settings > All Settings > General & Privacy > System Manager > Time > Clock (Try Now)
- You can set up a maximum total of 30 Schedule Viewing and Schedule Recording entries.
- Recordings are DRM-protected and therefore cannot be played back on a computer or on a different TV. In addition, these files cannot be played back on your TV if its video circuit has been replaced.
- For a USB device for recording, it is recommended to use the USB hard disk that supports USB 2.0 or later and 5,400 rpm or higher. However, RAID-type USB hard drives are not supported.
- USB memory is not supported.
- The total recording capacity may differ with the amount of available hard drive space and the recording quality level.
- Schedule Recording requires at least 100 MB of free space on the USB storage device. Recording will stop if the available storage space falls below 50 MB while recording is in progress.
- If the available storage space falls below 500 MB while both the Schedule Recording and Timeshift functions are in progress, only the recording will stop.
- The maximum recording time is 720 minutes.
- Videos are played according to the TV settings.
- If the input signal is changed while recording is in progress, the screen will go blank until the change is made. In this case, recording will resume, but the
 button 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.
 - (a) > ≡ (left directional button) > (b) Settings > All Settings > General & Privacy > System Manager > Time > Sleep Timer (Try Now)
 - (a) > ≡ (left directional button) > (b) Settings > All Settings > General & Privacy > Power and Energy Saving > Auto Power Off (iry Now)

Before using the timeshift function

- Timeshift is not supported in the U.S.A. and Canada.
- Timeshift may not be supported depending on the model or geographical area.
- For a USB device for recording, it is recommended to use the USB hard disk that supports USB 2.0 or later and 5,400 rpm or higher. However, RAID-type USB hard drives are not supported.
- USB memory 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.

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 https://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 network connection may cause delays or interruptions. In addition, applications may terminate automatically depending on the network environment. If this occurs, check your network 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.
- For details on how to subscribe or unsubscribe from an app, please contact the service provider.

Read Before Using the Internet Function

Read this information before using the Internet function.

- 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 webpage is loading.
- Loading a webpage 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 color 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.
- 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-optimized streaming service providers may not play properly on our proprietary Internet browser.

Read before setting up a wireless network connection

Precautions for wireless network

- This TV supports the IEEE 802.11 a /b /g /n /ac communication protocols. 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.
 - QN9**C series supports the IEEE 802.11 a /b /g /n /ac /ax communication protocols.
 - ✔ For models other than the QN9**C series, Samsung recommends using IEEE 802.11n.
- To use wireless network, 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 being used by 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 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 to the use of photo, video, and music files (ry Now

- The TV supports Mass Storage Class (MSC) USB devices only. MSC is a class designation for mass storage devices. Types of MSC devices include external hard drives, flash card readers, and digital cameras. (USB hubs are not supported.) These kinds of devices must be connected directly to the USB port. The TV may not be able to recognize a USB device or read the files on the device if it is connected with a USB extension cable. Do not disconnect USB devices while they are transferring files.
- When connecting an external hard drive, use the USB (HDD 5V 1A) port. We recommend that you use an external hard drive with its own power adapter.

𝖉 USB (HDD 5V 1A) port is supported by some models.

- Certain digital cameras and audio devices may not be compatible with the TV.
- If there are multiple USB devices connected to the TV, the TV might not be able to recognize some or all the devices. USB devices that use high-power input should be connect to the USB (HDD 5V 1A) port.

ℰ USB (HDD 5V 1A) port is supported by some models.

- The TV supports the FAT, exFAT, and NTFS file systems.
- In the media contents list, the TV can display up to 1,000 files per folder. If the USB device contains more than 8,000 files and folders, however, some files and folders might not be accessible.
- Certain files, depending on how they are encoded, may not play on the TV.
- Certain files are not supported on all models.
- The DivX and DTS codecs are not supported by the Samsung TV models released in 2023.

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	МКV
Advanced SubStation Alpha	МКV
SubRip	MKV
VobSub	МКV
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	16320 x 12240
*.png	PNG	4096 x 4096
*.bmp	BMP	4096 x 4096
*.mpo	МРО	15360 x 8640
*.heic	HEIF	16320 x 12240

ℰ The MPO format is supported partly.

- ℰ The HEIF format is may not be supported depending on the model or geographical area.
- HEIF supports only the single image of grid type (grid) and its minimum resolution must be at least 512 pixels in width or height.

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 16/24 Bit, 48/96/192 kHz, 5.1 channel
*.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	аре	аре	
*.aif *.aiff	AIFF	AIFF	
*.m4a	ALAC	ALAC	

Supported video codecs (QLED TV(except for QE1C/Q6*C/Q7*C Series)/S8*C/S9*C Series)

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs	
*.avi				4096 x 2160: 60			
*.mkv		H.264 BP/MP/HP	4096 x 2160	3840 x 2160: 60	60		
*.asf				1920 x 1080: 120			
*.wmv				4096 x 2160: 60			
*.mp4	AVI	HEVC (H.265 - Main, Main10)	4096 x 2160	3840 x 2160: 120	80	Dolby Digital	
*.mov	MKV					LPCM	
*.3gp	ASF	Motion JPEG	3840 x 2160	30	80	ADPCM(IMA, MS)	
	MP4	MVC				AAC	
*.vro	3GP	MPEG4 SP/ASP			20	HE-AAC	
*.mpg	MOV	Window Media Video		60		WMA	
*.mpeg	FLV	v9 (VC1)				Dolby Digital+	
*.ts		MPEG2					
*.tp	VRO	MPEG1				MPEG(MP3)	
*.trp	VOB	Microsoft MPEG-4 v1,	1920 x 1080			AC-4	
	PS	v2, v3		-			G.711(A-Law, μ-Law)
*.flv	TS	Window Media Video				OPUS	
*.vob		v7 (WMV1), v8 (WMV2)		30			
*.svi		H.263 Sorenson					
*.m2ts		VP6					
*.mts		AV1	3840 x 2160	120	40		
		VP8	1920 x 1080	60	20		
*.webm	WebM	VP9 (Profile O, profile 2 supported)	3840 x 2160	60	80	Vorbis	
		AV1	3840 x 2160	120	40		
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6	

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs
*.avi *.mkv		H.264 BP/MP/HP	3840 x 2160	3840 x 2160: 60 1920 x 1080: 120	60	
*.asf *.wmv		HEVC (H.265 - Main, Main10)	3840 x 2160	120	80	
*.mp4	AVI	Motion JPEG	3840 x 2160	30	30	Dolby Digital
*.mov	MKV ASF	MVC MPEG4 SP/ASP				LPCM ADPCM(IMA, MS)
*.3gp *.vro	MP4 3GP	MP4 Window Media Video	60		AAC HE-AAC	
*.mpg		MPEG2				WMA
*.mpeg	MOV	MPEG1	1920 x 1080			
*.ts *.tp	FLV VRO	Microsoft MPEG-4 v1, v2, v3		30	20	Dolby Digital+ MPEG(MP3) AC-4 G.711(A-Law, μ-Law)
*.trp *.flv	PS v7 (WM (WM	Window Media Video v7 (WMV1), v8 (WMV2)				
*.vob	TS	H.263 Sorenson				
*.svi		VP6				
*.m2ts *.mts		AV1	3840 x 2160	60	40	
		VP8	1920 x 1080	60	20	
*.webm	WebM	VP9 (Profile 0, profile 2 supported)	3840 x 2160	60	80	Vorbis
		AV1	3840 x 2160	60	40	
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6

Supported video codecs (Q7*C Series, 85CU8 Series)

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.

Video decoders

- H.264 UHD is supported up to Level 5.1.
 - TV does not support FMO / ASO / RS
 - Resolution is changed during video playback (Up to 3840 x 2160 is supported)
- H.264 FHD is supported up to Level 4.2.
 - TV does not support FMO / ASO / RS
- HEVC UHD is supported up to Level 5.2.
 - Resolution is changed during video playback (Up to Level 5.1 3840 x 2160 is supported)
- 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, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital+ 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.

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs	
*.avi		H.264 BP/MP/HP	4096 x 2160	60	60		
*.mkv		HEVC (H.265 - Main, Main10)	4096 x 2160	60	80		
*.asf		Motion JPEG	3840 x 2160	30	80		
*.wmv	AVI	MVC				Dolby Digital	
*.mp4	MKV	MPEG4 SP/ASP				LPCM	
*.mov *.3gp	ASF	Window Media Video v9 (VC1)		60		ADPCM(IMA, MS)	
	MP4	MPEG2				AAC	
*.vro	3GP	MPEG1				HE-AAC	
*.mpg *.mpeg	MOV	Microsoft MPEG-4 v1, v2, v3	1920 x 1080		20	WMA Dolby Digital+	
*.ts *.tp	FLV VRO VOB	Window Media Video v7 (WMV1), v8 (WMV2)		30		MPEG(MP3) AC-4	
*.trp	PS	H.263 Sorenson					G.711(A-Law, μ-Law)
*.flv	TS	VP6				OPUS	
*.vob *.svi *.m2ts *.mts	15	AV1	3840 x 2160	60	40		
		VP8	1920 x 1080	60	20		
*.webm	WebM	VP9 (Profile 0, profile 2 supported)	3840 x 2160	60	80	Vorbis	
		AV1	3840 x 2160	60	40		
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6	

Supported video codecs (QE1C/Q6*C Series (except for 32Q6*C Series))

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs		
*.avi *.mkv		H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 30 1920 x 1080: 120	100			
*.asf *.wmv *.mp4	AVI	HEVC (H.265 - Main, Main10)	4090 x 2100	4096 x 2160: 60 1920 x 1080: 120	100	Dolby Digital		
	MKV	Motion JPEG		60	80	LPCM		
*.mov	ASF	MPEG4 SP/ASP				ADPCM(IMA, MS)		
*.3gp *.vro	MP4 3GP	Window Media Video v9 (VC1)		60	60	AAC		
*.mpg		MPEG2				HE-AAC		
*.mpeg	MOV	MPEG1		30	60	WMA		
*.ts	FLV VRO	Microsoft MPEG-4 v1, v2, v3	1920 x 1080			Dolby Digital+ MPEG(MP3)		
*.tp *.trp *.flv	VOBWindow Media Video v7 (WMV1), v8PS(WMV2)TSH.263 SorensonVP6	-	-	v7 (WMV1), v8		30	20	AC-4 G.711(A-Law, μ-Law)
*.vob		H.263 Sorenson				OPUS		
*.svi *.m2ts *.mts		AV1	4096 x 2160	4096 x 2160: 60 1920 x 1080: 120	100			
		VP8	1920 x 1080	60	40			
*.webm	ebm WebM	VP9 (Profile 0, profile 2 supported)	4096 x 2160	4096 x 2160: 60 1920 x 1080: 120	100	Vorbis		
		AV1	4096 x 2160	4096 x 2160: 60 1920 x 1080: 120	100			
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	60	RealAudio 6		

Supported video codecs (CU8 Series(except for 85CU8 Series))

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.

Video decoders

- H.264 UHD is supported up to Level 5.1.
 - TV does not support FMO / ASO / RS
 - Resolution is changed during video playback (Up to 3840 x 2160 is supported)
- H.264 FHD is supported up to Level 4.2.
 - TV does not support FMO / ASO / RS
- HEVC UHD is supported up to Level 5.1.
 - Resolution is changed during video playback (Up to 3840 x 2160 is supported)
- 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, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital+ 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.

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs
*.avi *.mkv		H.264 BP/MP/HP	3840 x 2160	3840 x 2160: 30 1920 x 1080: 60	50	
*.asf *.wmv		HEVC (H.265 - Main, Main10)		60	50	
*.mp4 *.mov *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.tp	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS	Motion JPEG MVC MPEG4 SP/ASP Window Media Video v9 (VC1) MPEG2 MPEG1 Microsoft MPEG-4 v1, v2, v3 Window Media Video v7 (WMV1), v8	1920 x 1080	60 30	20	Dolby Digital LPCM ADPCM(IMA, MS) AAC HE-AAC WMA Dolby Digital+ MPEG(MP3) AC-4 G.711(A-Law, µ-Law)
*.flv *.vob *.svi *.m2ts *.mts	TS	(WMV2) H.263 Sorenson VP6 AV1	3840 x 2160	60	40	OPUS
*.webm	WebM	VP8 VP9 (Profile 0, profile 2 supported) AV1	1920 x 1080 3840 x 2160 3840 x 2160	60 60 60	20 50 40	Vorbis
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6

Supported video codecs (CU7/BEC Series, 32Q6*C Series)

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.

Video decoders

- H.264 FHD is supported up to Level 4.2. (TV does not support FMO / ASO / RS)
- H.264 UHD is supported up to Level 5.1. (TV does not support FMO / ASO / RS)
- HEVC FHD is supported up to Level 4.1.
- HEVC UHD is supported up to Level 5.1.
- VC1 AP L4 is not supported.
- GMC 2 or above is not supported.

Audio decoders

- WMA is supported up to 10 Pro 5.1 channels, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital+ 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.

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs	
*.avi		H.264 BP/MP/HP		60	50		
*.mkv		HEVC (H.265 - Main, Main10)		60	50		
*.asf		Motion JPEG					
*.wmv	AVI	MVC				Dolby Digital	
*.mp4	MKV	MPEG4 SP/ASP				LPCM	
*.mov *.3gp	ASF	Window Media Video v9 (VC1)		60		ADPCM(IMA, MS)	
.Jgp *.vro	MP4	MPEG2				AAC	
	3GP	MPEG1			20	HE-AAC	
*.mpg *.mpeg	MOV FLV	v2 v3	v2 v3				WMA Dolby Digital+
*.ts *.tp	VRO VOB	Window Media Video v7 (WMV1), v8 (WMV2)	1920 x 1080	30		MPEG(MP3) AC-4	
*.trp	PS	H.263 Sorenson				OPUS	
*.flv	TS	VP6	VP6			G.711(A-Law, μ-Law)	
*.vob *.svi *.m2ts *.mts		AV1	AV1	60	40		
		VP8		60	20		
*.webm	WebM	VP9 (Profile 0, profile 2 supported)		60	50	Vorbis	
		AV1		60	40		
*.rmvb	RMVB	RV8/9/10 (RV30/40)		60	20	RealAudio 6	

Supported video codecs (The Frame (32LS03C model))

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.

Video decoders

- H.264 FHD is supported up to Level 4.2. (TV does not support FMO / ASO / RS)
- 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, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital+ 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.

File Bitrate Container Video codecs Resolution Audio codecs Frame rate (fps) format (Mbps) 3840 x 2160: 60 *.avi H.264 BP/MP/HP 3840 x 2160 60 1920 x 1080: 120 *.mkv *.asf 7680 x 4320: 60 HEVC (H.265 - Main, 7680 x 4320 100 Main10) *.wmv 3840 x 2160: 120 AVI Dolby Digital *.mp4 Motion JPEG 1920 x 1080 20 60 MKV LPCM *.mov MVC ASF ADPCM(IMA, MS) MPEG4 SP/ASP *.3gp MP4 AAC Window Media Video *.vro 60 3GP HE-AAC v9 (VC1) *.mpg MOV WMA MPEG2 *.mpeg MPEG1 FLV Dolby Digital+ *.ts 1920 x 1080 20 Microsoft MPEG-4 v1, VRO MPEG(MP3) *.tp v2, v3 VOB AC-4 Window Media Video *.trp PS G.711(A-Law, μ-Law) v7 (WMV1), v8 30 *.flv (WMV2) ΤS OPUS *.vob H.263 Sorenson *.svi VP6 *.m2ts 7680 x 4320: 60 AV1 7680 x 4320 80 *.mts 3840 x 2160: 120 VP8 1920 x 1080 60 20 VP9 (Profile 0, profile 80 3840 x 2160 60 2 supported) *.webm WebM Vorbis 7680 x 4320: 60 AV1 7680 x 4320 80 3840 x 2160: 120 *.rmvb 1920 x 1080 20 RMVB RV8/9/10 (RV30/40) 60 RealAudio 6

Supported video codecs (QN7**C Series)

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.

ℰ Some third-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.

Video decoders

- H.264 UHD is supported up to Level 5.1, and H.264 FHD is supported up to Level 4.2 (TV does not support FMO / ASO / RS).
- HEVC UHD is supported up to Level 5.2, 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, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital+ 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.

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs								
*.avi *.mkv		H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 60 1920 x 1080: 120	60									
*.asf *.wmv	AVI	HEVC (H.265 - Main, Main10)	7680 x 4320	7680 x 4320: 60 3840 x 2160: 120	100	Dolby Digital								
*.mp4	MKV	Motion JPEG	3840 x 2160	30	80	LPCM								
*.mov	ASF	MVC				ADPCM(IMA, MS)								
*.3gp		MPEG4 SP/ASP												
*.vro	MP4 3GP	Window Media Video v9 (VC1)		60		AAC HE-AAC								
*.mpg	MOV	MPEG2				WMA								
*.mpeg	FI V	FLV MPEG1			Dolby Digital+									
*.ts *.tp	VRO	Microsoft MPEG-4 v1, v2, v3	1920 x 1080		20	MPEG(MP3)								
*.trp *.flv	VOB PS TS	PS	PS	PS	PS	PS	PS	PS	-	Window Media Video v7 (WMV1), v8 (WMV2)		30		AC-4 G.711(A-Law, μ-Law) OPUS
*.vob		H.263 Sorenson												
*.svi		VP6												
*.m2ts *.mts		AV1	7680 x 4320	7680 x 4320: 60 3840 x 2160: 120	80									
		VP8	1920 x 1080	60	20									
*.webm	ebm WebM	VP9 (Profile 0, profile 2 supported)	3840 x 2160	60	80	Vorbis								
.₩€₽₩		AV1	7680 x 4320	7680 x 4320: 60 3840 x 2160: 120	80	201015								
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6								

Supported video codecs (QN8**C Series or higher)

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.

ℰ Some third-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.

Video decoders

- H.264 UHD is supported up to Level 5.1.
 - TV does not support FMO / ASO / RS
 - Resolution is changed during video playback (Up to 3840 x 2160 is supported)
- H.264 FHD is supported up to Level 4.2.
 - TV does not support FMO / ASO / RS
- HEVC UHD is supported up to Level 5.2.
 - Resolution is changed during video playback (Up to Level 5.1 3840 x 2160 is supported)
- 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, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital+ 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	16:9 Standard, Custom, 4:3			
Digital channel (720p)	16:9 Standard, Custom, 4:3			
Digital channel (1080i, 1080p)	16:9 Standard, Custom, 4:3			
* Digital channel (3840 x 2160p @ 24/30 Hz)	16:9 Standard, Custom			
* Digital channel (3840 x 2160p @ 50/60 Hz)	16:9 Standard, Custom			
* Digital channel (4096 x 2160p)	16:9 Standard, Custom			
HDMI (720p)	16:9 Standard, Custom, 4:3			
* HDMI (1080i, 1080p)	16:9 Standard, Custom, 4:3			
* HDMI (3840 x 2160p)	16:9 Standard, Custom			
* HDMI (4096 x 2160p)	16:9 Standard, Custom			
*HDMI (7680 x 4320p)	16:9 Standard, Custom			
USB (720p)	16:9 Standard, Custom, 4:3			
USB (1080i/p @ 60 Hz)	16:9 Standard, Custom, 4:3			
* USB (3840 x 2160p @ 24/30 Hz)	16:9 Standard, Custom			
* USB (3840 x 2160p @ 60 Hz) * USB (4096 x 2160p @ 24/30/60 Hz)	16:9 Standard, Custom			
*USB (7680 x 4320p @ 24/30/60 Hz)	16:9 Standard, Custom			

★ *: This input signal may differ depending on the model and geographical area.

✗ The input ports for external devices may differ depending on the model and geographical area.

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 \square 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
- ℰ This function may not be supported depending on the model.

If Input Signal Plus is set to Off

Frame rate (fps)	Color 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

- All models for QE1C/Q6*C Series, Q8*C Series (50-inch and smaller models)
- All models for CU7/BEC Series, CU8 Series (75-inch and smaller models)

Frame rate (fps)	Color 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

- QLED TV (except for QE1C/Q6*C Series, Q8*C (50-inch and smaller models) Series)
- S8*C/S9*C Series
- CU8 Series (85-inch and larger models)

Frame rate (fps)	Color 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
120	8 bit	0	0	0	0
	10 bit	0	0	0	0

Resolutions for Input Signals supported by 8K models (QN7**C series or higher)

Check the resolutions for input signals supported by 8K models (QN7**C series or higher).

ℰ This function may not be supported depending on the model.

If Input Signal Plus is set to Off

Frame rate (fps)	Color 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

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

Frame rate (fps)	Color 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
120	8 bit	0	0	0	0
	10 bit	0	0	0	0

• Resolution: 7680 x 4320p

Frame rate (fps)	Color Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
24 / 30 / 50 / 60	8 bit	0	0	0	0
	10 bit	0	0	0	0

Supported Resolutions for FreeSync (VRR)

Check the supported resolutions for the FreeSync (VRR) signal.

When Game Mode is set to On or Auto, the FreeSync (VRR) function is activated.

🖉 FreeSync (VRR) is only available in select models. For models that support FreeSync (VRR), refer to "Using FreeSync."

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	SCAN
1920 x 1080	120 Hz	135.000	120	297.000	progressive
**1920 x 1080	144 Hz	166.587	144	346.500	progressive
2560 x 1080	120 Hz	150.000	120	495.000	progressive
**2560 x 1080	144 Hz	172.339	144	470.830	progressive
2560 x 1440	120 Hz	150.000	120	495.000	progressive
3840 x 2160	120 Hz	270.000	120	1188.000	progressive
**3840 x 2160	144 Hz	323.677	144	1424.180	progressive
3840 x 1080	120 Hz	137.250	120	549.000	progressive
**3840 x 1080	144 Hz	166.607	144	653.100	progressive
3840 x 1600	120 Hz	99.419	120	521.750	progressive
**3840 x 1600	144 Hz	246.569	144	1035.590	progressive
4096 x 2160	120 Hz	270.000	120	1188.000	progressive
*7680 x 4320	60 Hz	264.000	60	2376.000	progressive

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

✗ **: Only models that support 144 Hz are supported.

Read Before Connecting a Computer (Supported Resolutions)

Check the resolutions supported 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. The TV will automatically adjust to the resolution you choose. Note that the optimal and recommended resolutions are 3840 x 2160 @ 60 Hz (UHD models), and 7680 x 4320 @ 60 Hz (QN7**C series or higher). Choosing a resolution not included in the tables can result in a blank or flickering screen or can turn on only the receiver of the remote control. Refer to the user manual of your graphics card for compatible resolutions.

The native resolutions are 3840 x 2160 @ 60 Hz (UHD models) and 7680 x 4320 @ 60 Hz (QN7**C series or higher) with the Input Signal Plus set to On. The native resolution is 3840 x 2160 @ 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 1080i	50 Hz	28.125	50.000	74.250	+ / +
1920 x 1080i	60 Hz	33.750	60.000	74.250	+ / +
*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	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 resolutions supported for video signals.

CTA-861

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
720 (1440) x 576i	50 Hz	15.625	50.000	27.000	- / -
720 (1440) x 480i	60 Hz	15.734	59.940	27.000	- / -
720 x 576	50 Hz	31.250	50.000	27.000	- / -
720 x 480	60 Hz	31.469	59.940	27.000	- / -
1280 x 720	50 Hz	37.500	50.000	74.250	+ / +
1280 x 720	60 Hz	45.000	60.000	74.250	+ / +
1920 x 1080i	50 Hz	28.125	50.000	74.250	+ / +
1920 x 1080i	60 Hz	33.750	60.000	74.250	+ / +
1920 x 1080	24 Hz	27.000	24.000	74.250	+ / +
1920 x 1080	25 Hz	28.125	25.000	74.250	+ / +
1920 x 1080	30 Hz	33.750	30.000	74.250	+ / +
1920 x 1080	50 Hz	56.250	50.000	148.500	+ / +
1920 x 1080	60 Hz	67.500	60.000	148.500	+ / +
*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	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	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	+ / +

ℰ *: 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.

Supported Resolutions for HDBT

Check the resolutions supported for HDBT.

ℰ HDBT is used only for The Terrace.

CEA-861

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)
640 x 480	60 Hz	31.469	59.940	25.175
720 x 480	60 Hz	31.469	59.940	27.000
720 x 576	50 Hz	31.250	50.000	27.000
1280 x 720	50 Hz	37.500	50.000	74.250
1280 x 720	60 Hz	45.000	60.000	74.250
1440 x 240	60 Hz	15.734	59.940	27.000
1440 x 240	60 Hz	15.734	59.826	27.000
1440 x 288	50 Hz	15.625	50.000	27.000
1440 x 480	60 Hz	15.734	59.940	27.000
1440 x 576	50 Hz	15.625	50.000	27.000
1440 x 576	100 Hz	31.250	100.000	54.000
1920 x 1080	24 Hz	27.000	24.000	74.000
1920 x 1080	25 Hz	28.125	25.000	74.000
1920 x 1080	30 Hz	33.750	30.000	74.000
1920 x 1080	50 Hz	33.750	30.000	74.250
1920 x 1080	50 Hz	56.250	50.000	149.000
1920 x 1080	60 Hz	67.500	60.000	149.000
1920 x 1080	100 Hz	56.250	100.000	149.000
1920 x 1080	100 Hz	112.500	100.000	297.000
1920 x 1080	120 Hz	135.000	120.000	297.000
2880 x 288	50 Hz	15.625	50.000	54.000
2880 x 480	60 Hz	15.734	59.940	54.000
2880 x 576	50 Hz	31.250	50.000	108.000
3840 x 2160	30 Hz	67.500	30.000	297.000

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

- Compatibility issues may occur, depending on the Bluetooth device (A Mobile exclusive headphone may not be available, depending on the environment).
- Lip-sync errors may occur.
- The TV and Bluetooth device may disconnect, depending on the distance between them.
- A Bluetooth device may hum or malfunction:
 - When a part of your body is in contact with the receiving/transmitting system of the Bluetooth device or the TV.
 - When the device is subject to electrical variation from obstructions caused by a wall, corner, or office partitioning.
 - When the device is exposed to electrical interference from same frequency-band devices including medical equipment, microwave ovens, and wireless LANs.
- If the problem persists, we recommend you use a wired connection.
 - DIGITAL AUDIO OUT (OPTICAL) port
 - HDMI (eARC/ARC) port

Blocking programs based on their TV Rating

Read this information before viewing a blocking program.

To block content in **TV Rating**, select a rating category to lock. All programs at that level and higher are blocked and require the PIN to watch. To unblock a category, select the lock icon. To unblock all the categories in a row, select the lock under ALL.

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

Categories on the left:

- TV-Y: Young children.
- TV-Y7: Children 7 and over.
- TV-G: General audience.
- TV-PG: Parental guidance.
- TV-14: Viewers 14 and over.
- TV-MA: Mature audience.

Categories on the top:

- ALL: Lock all TV ratings.
- FV: Fantasy violence.
- V: Violence.
- S: Sexual situations.
- L: Adult language.
- D: Sexually suggestive dialog.

Blocking movies based on their Motion Picture Association of America (MPAA) rating

The Movie Rating (MPAA) system applies to all materials with supplied ratings in the U.S.A.

From the MPAA:

"The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children."

Select a lock beside one of the rating categories to block that category and all higher categories. To unblock a category, select the lock icon.

- G: General audience (no restrictions).
- PG: Parental guidance suggested.
- PG-13: Parents strongly cautioned.
- R: Restricted. Children under 17 should be accompanied by an adult.
- NC-17: No children under age 17.
- X: Adults only.
- NR: Not rated.

Blocking programs based on their Canadian English Rating

The Canadian English Rating system applies to all rated material viewed on English-Canadian TV channels.

Select a lock beside one of the rating categories to block that category and all higher categories. To unblock a category, select the lock icon.

- C: Programming intended for children under age 8.
- C8+: Programming generally considered acceptable for children 8 years and over to watch on their own.
- G: General programming, suitable for all audiences.
- PG: Parental Guidance.
- 14+: Programming containing themes or content that may not be suitable for viewers under the age of 14.
- 18+: Adult programming.

Blocking programs based on their Canadian French Rating

The Canadian French Rating system applies to all rated material viewed on French-Canadian TV channels.

Select a lock beside one of the rating categories to block that category and all higher categories. To unblock a category, select the lock icon.

- G: General.
- 8 ans+: Programming acceptable for children 8 years and over to watch on their own.
- 13 ans+: Programming that may not be suitable for children under the age of 13.
- 16 ans+: Programming not suitable for children under the age of 16.
- 18 ans+: Programming restricted to adults.

Blocking Programs based on their Downloadable U.S. Rating

The Downloadable U.S. Rating system only applies to material originating from US DTV channels.

Parental restriction information is automatically downloaded while you watch DTV channels. This download may take several seconds. If the information is unavailable from the broadcasting station, the **Downloadable U.S. Rating** menu is deactivated.

Parental restriction levels differ with the broadcasting station. The default menu name and the Downloadable U.S. Rating name changes depending on the downloaded information.

Even when the on-screen display is set to another language, the **Downloadable U.S. Rating** menu appears only in English.

Select a lock beside one of the rating categories to block that category and all higher categories. To unblock a category, select the lock icon.

Licenses & Other Information

Check the licenses and other information and trademarks applied in your TV.

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Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website: www.samsung.com/recycling or call, 1-800-SAMSUNG

For battery recycling go to call2recycle.org or call 1-800-822-8837

Troubleshooting

The following are troubleshooting solutions for each problem.

Picture Issues

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

The screen is flashing or has become dark

If your TV is flickering or dimming sporadically, you may need to disable some of the energy efficiency features.

Disable Brightness Optimization, Energy Saving Solution, Motion Lighting, or Contrast Enhancer.

Run Picture Test. When the tested image quality is normal, check the signal of the connected device.

The picture is not bright, or the picture colors do not look clear

If the screen appears too dim, try changing the settings under Reset Picture or disabling Brightness Optimization, Energy Saving Solution.

Go to Picture and adjust the Picture Mode, Contrast, Brightness, and Sharpness settings.

- **(left directional button)** \Rightarrow **(left directional button)**

The picture colors are black and white or do not look the way they should look

If the product's colors or absolute whites/blacks seem to be off, launch Picture Test.

If the test results indicate that the problem is not caused by the TV, do the following:

When using the One Connect Box, confirm that its video input connectors are connected to the correct external device video output connectors.

If using a component cable, ensure that the green (Y), blue (Pb), and red (Pr) cables are connected properly. Incorrect connections may cause color problems or a blank screen.

Component port may not be supported depending on the model.

Check whether Grayscale is set to On.

The TV automatically turns off by itself

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.

If the Sleep Timer has not been enabled, see if Auto Power Off or Off Timer has been enabled and disable it.

TV (The Frame TV) cannot be turned off.

If your TV is The Frame model, you can turn off the TV by pressing and holding the Power button. To switch from Art mode to TV mode or vice versa, short-press the Power button when the TV is on.

Unable to power 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.

In case of a model that supports One Connect Box, check the One Invisible Connection or One Connect Cable between the TV and One Connect Box.

The TV remains on or does not turn on automatically.

If the surrounding area is too dark or bright, the motion sensor may not work normally. The performance of the motion sensor may be affected by the installation environment (height, tilt, obstacles). If the clothes you wear or your skin color is similar to the surrounding shading, the motion sensor may not work properly.

Motion Sensor may not be supported depending on the model or geographical area.

The TV responds to all visual changes around it (lights, displays, dogs, out-of-window changes, and other occurrences). You can adjust the response level by adjusting the sensitivity of the motion detector.

- Art Mode Options can be found at the bottom of the Art home. To configure the option settings, scroll down to the far bottom.
- Motion Detector may not be supported depending on the model or geographical area.

Unable to find a Channel

If your TV is not connected to a cable box or satellite box, run Auto Program.

• \bigcirc > \equiv (left directional button) > \otimes Settings > All Settings > Broadcasting > Auto Program (ry Now

When using a broadcast receiver such as set-top box and IPTV, check the connection to the TV.

When the symptom persists, contact your service provider.

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.

Change the output resolution of your devices, such as digital broadcast receiver, IPTV, and set-top box 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."

For more information about the supported 8K resolutions, refer to "<u>Resolutions for Input Signals supported by 8K</u> models (QN7**C series or higher)."

- Make sure that the set-top box or cable box supports the content or broadcast for UHD and set the resolution. For more information, contact your service provider.
- When using a Samsung TV Plus channel, check the network connection. When the network speed is slow, the app may not work or the image quality may be poor.

Displayed video looks blurry

If you notice blurring or juddering on the screen, use the Picture Clarity Settings function to resolve the issue.

The picture is distorted

The compression of video content may cause picture distortions, especially in fast moving pictures from sports programs and action movies.

Remove and reconnect the power cord, and check the remote control battery.

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 3.2 ft) may cause noise on analog and digital channels.

There is a dotted line on the edge of the screen

Change Picture Size to 16:9 Standard.

Change the output resolution of your external device.

The picture won't display in full screen

HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content.

Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV.

Adjust the picture size options on your external device or set the TV to full screen.

The Caption function in the TV menu is deactivated

When an external device is connected with an HDMI or Component cable, the Caption function is unavailable. Adjust the caption setting on the external device.

Captions appear on the TV screen

Turn off the Caption function in Caption Settings.

The HDR of the connected external device turns off

If the Input Signal Plus feature is turned on, the range of receiving HDMI input signals is expanded, allowing you to view HDR content sent from an external device.

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

Sound and Noise Issues

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

How can I connect an audio device to the TV?

The connection method may differ depending on the audio device, such as HDMI (eARC/ARC), Optical, Bluetooth, and Wi-Fi.

For more information about how to connect an audio device, run Connection Guide.

There is no sound or the sound is too low at maximum volume.

Check the volume control of your TV, and then check the volume control of the external device (cable box or satellite box, DVD, Blu-ray, etc.) connected to your TV.

Check the cable connection between an external device and the TV and then try cable connection again.

The picture is good but there is no sound.

Check the Sound Output setting. If it is set to TV Speaker, check the volume setting.

If you are using an external device, check the device's audio output option.

For example, you may need to change your cable box's audio option to HDMI if the box connected to your TV is using an HDMI cable.

To listen to computer sound, connect an external speaker to the computer's audio output connector.

If your TV has a headphone jack, make sure there is nothing plugged into it.

Reboot the connected device by disconnecting and then reconnecting the device's power cord.

With a set-top box or cable box, check the cable connection and reboot the external device. When the symptom persists, contact your service provider.

HDMI (eARC/ARC) is connected, and there is no sound.

Check whether Digital Output Audio Format is set to Pass-Through.

If a soundbar or A/V receiver that does not support **Dolby Digital+** is used and **Pass-Through** is selected, there is no sound when a **Dolby Digital+** source is received.

It is recommended to set **Digital Output Audio Format** to **Auto** if only limited audio format is supported depending on the performance of the connected soundbar or A/V receiver.

The speakers are making an odd sound.

Run 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 **Broadcast Signal**. A low signal level may cause sound distortions.

• **(**b > \equiv (left directional button) > \otimes Settings > Support > Device Care > Self Diagnosis > Broadcast Signal

The sound is interrupted.

Sound quality may become affected if the wireless router is close to the Bluetooth speaker. Place the Bluetooth speaker as close as possible to the TV without obstacle between them. Do not place the wireless router close to the Bluetooth speaker body.

To minimize interruptions, we recommend a wireless access point that uses a 5 GHz frequency. 5 GHz may not be available depending on the model.

When the symptom persists, it is recommended to use wired connection such as HDMI (eARC/ARC) and Optical.

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 Soundbar or A/V receiver.

Check the Soundbar or A/V receiver's power supply and its settings.

- When connecting the optical cable between the TV and Soundbar or A/V receiver, make sure that the sound output is set Optical on your TV.
- In case of HDMI eARC connection, make sure that it is connected to the eARC dedicated HDMI port on your TV. However, the eARC can be used only when the Soundbar or A/V receiver supports the eARC feature.

The sound is not heard clearly.

Change to an appropriate sound mode.

When Intelligent Mode and Adaptive Sound Pro are turned on, the sound effects are automatically adjusted to the surroundings.

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

To optimize the sound depending on the surroundings, select Adaptive Sound Pro.

- ℰ This function may not be supported depending on the model.

The volume of the external device cannot be adjusted.

Check the cable connection between the TV and the external device.

When connecting an external speaker such as home theater via HDMI, make sure it is connected to the HDMI (eARC/ ARC) port on the TV. Make sure that the $\textcircled{O} > \equiv$ (left directional button) > O Settings > All Settings > Connection > External Device Manager > Anynet+ (HDMI-CEC) is active on your TV. (iry Now

ℰ If a device is connected via Optical, volume control may not be possible, depending on the device.

I want to turn the TV and audio device off and on at the same time.

When you connect the Samsung Soundbar to the TV via Bluetooth, the power turns off and on together. It may not be supported depending on the Samsung Soundbar model.

When you connect an audio device that supports HDMI eARC to the HDMI (eARC) port on the TV, the power turns off and on together.

Channel and Broadcast Issues

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

"Weak or No Signal" displayed in TV mode or cannot find channel.

Make sure that the external device is connected securely and turned on. Move to **Connected Devices** to switch to other input sources.

When using a set-top box or cable box, check the broadcast signals or the network that is connected to the external device.

The TV is not receiving all channels.

Confirm that the coaxial cable is securely connected to the TV.

Run Reset or Auto Program.

The captions are not provided on a digital channel.

When watching channels with the antenna cable connected, run Caption Settings.

Some channels may not have caption data.

When watching a channel on an external device such as a set-top box and cable box, turn on the caption function on the device. For more information, contact your service provider.

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.

Record and Timeshift may not be supported depending on the model or geographical area.

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 "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.

I want to connect to a PC and mobile device via 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.

Confirm that the TV and your PC are connected to the same 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.

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.

Make sure that the external device is connected securely and turned on. Move to Sources to switch to other input sources.

Using HDMI Troubleshooting, you can check the connection to HDMI cable and external devices (takes approximately 2 minutes).

When using a set-top box or cable box, check the broadcast signals or the network that is connected to the external device.

I want to connect to a Bluetooth speaker.

For more information on how to connect a Bluetooth speaker, see Audio Device > Bluetooth in Connection Guide.

• (left directional button) > ~ Connected Devices > Connection Guide > Audio Device > Bluetooth

The PC screen does not appear or it flickers.

When the PC screen does not appear or the PC is not recognized, check the power supply of the PC and then reconnect the HDMI cable between the PC and TV. When the symptom persists, check that the PC is in Sleep mode and then set Input Signal Plus to On.

When the set resolution is not matched, it may cause a blank or flickering screen. For the PC supported resolution, refer to "Read Before Connecting a Computer (Supported Resolutions)."

Network Issues

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

Wireless network connection failed. Unable to connect to a wireless access point. Unable to connect to the network.

Ensure that the network cable is connected and the router is powered on.

Connect your mobile device to the router via Wi-Fi.

Turn the router off and back on again. (Requires 2 to 3 minutes)

If a security key is required, make sure it has been entered correctly.

Unplug the TV's power cord and plug it back in or press and hold the power button for at least 3 seconds.

Make sure that there is no electromagnetic wave generating device placed between the TV and router.

If unable to establish a wireless internet connection, connect the TV to the wireless router via a LAN cable.

If the TV is able to connect to the internet normally via the cable connection, there might be a problem with the wireless router. In this case, try using a different wireless router.

ℰ Wired networks are not supported by some models.

Wired network connection failed.

Check if the LAN cable is plugged in on both ends. If it is plugged in, check if the access point is turned on. If it is on, turn it off, wait 1 or 2 minutes, and then turn it on.

 ${\mathscr{D}}$ Wired networks are not supported by some models.

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

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

- Wired networks are not supported by some models.
- 1. Check if the Internet LAN cable is connected to the access point's external LAN port.
- 2. Check the DNS setting in IP Settings.
 - (a) > ≡ (left directional button) > (b) Settings > All Settings > Connection > Network > Network Status
 > IP Settings

Anynet+ (HDMI-CEC) Issues

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

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. The connected device is not displayed.

Make sure the device is an Anynet+ (HDMI-CEC) device. From the settings menu on the device, check and confirm that the HDMI-CEC option is enabled.

From the TV, check and confirm that the Anynet+ (HDMI-CEC) feature is set to On.

Check and confirm that the device's power cord is securely plugged in.

Check the device's HDMI cable connection.

Anynet+ (HDMI-CEC) cannot function under specific circumstances. (when the TV is scanning channels or performing Reset)

When connecting or disconnecting an HDMI cable, turn the TV off and then back on again.

I want to start Anynet+. I also want the connected devices to turn on when the TV is turned on.

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+. It is inconvenient to turn on other devices because the TV also turns on. It is inconvenient because the connected devices (e.g. set-top box) turn off together.

To turn off the Anynet+ function of a device connected to the TV, turn off the Anynet+ (HDMI-CEC) function of the device.

When Anynet+ (HDMI-CEC) is turned off, the soundbar connected via the HDMI (eARC) port does not turn off and on together with the TV. To prevent a specific device connected to the TV from turning off automatically, turn off the HDMI-CEC function on a specific device connected to the TV.

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.

Remote Control Issues

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

The remote control does not work.

The connection between the remote control 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 does not work properly or its response is very slow, the battery might be low or dead.

- Charge the remote control by using the USB port (C-type) on the bottom, or turn over the remote to expose the solar cell.
 - You can check remaining battery of Samsung Smart Remote with solar cell in
 > ≡ (left directional button) >
 > Settings > All Settings > General & Privacy > Power and Energy Saving > Available Remote Battery.
 - 🖉 This function may not be supported depending on the model.
- If the remote control has batteries, replace them with new ones.

External devices cannot be operated with the TV remote control.

Check the cable connection between the TV and external devices.

Recording Issues

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

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 USB device.

Before using the recording function, be sure to read all precautions. For more information, refer to "Before Using the Recording and Timeshift Functions."

- ℰ This function is not available in the U.S.A. and Canada.
- This function may not be supported depending on the model or geographical area.

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.

- ℰ This function is not available in the U.S.A. and Canada.
- ℰ This function may not be supported depending on the model or geographical area.

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.

- ℰ This function is not available in the U.S.A. and Canada.
- This function may not be supported depending on the model or geographical area.

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.

Playback may not work properly if the recording file has a problem. If the problem persists, check the recording file.

- ℰ This function is not available in the U.S.A. and Canada.
- ℰ This function may not be supported depending on the model or geographical area.

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

I cannot find the app I want.

To use smart functions, you should connect to a network, agree to the terms and conditions, and log in with your Samsung account. If these settings were not configured during the initial setting process, you can configure Smart Hub settings by running APPS from the Home Screen.

left directional button > Media > 88 APPS

If Smart Hub settings are complete but the app you want cannot be found on the Home Screen, you can find the app from \bigcirc Search or APPS. To add frequently used apps to the Home Screen, run the Add to Home feature from APPS.

• **(a)** > left directional button > **(b)** Media > \otimes APPS > Settings > List of installed apps > Add to Home

I launched an app, but it's in a different language. 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. Change the language from the settings menu in the app.

The app does not work properly. Its image quality is poor.

Check the network connection. When the network speed is slow, the app may not work or its image quality may be poor.

Uninstall and reinstall the app. For more information about app uninstallation, refer to "Managing installed apps."

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.

The Smart Hub Home Screen keeps appearing whenever you turn on the TV.

Turn off the Start with Smart Hub Home function in Start Screen Option.

Media Files

When files don't play, this may help resolve the problem.

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, refer to "Read Before Playing Photo, Video, or Music Files."

Voice Assistant Issues

When the Voice Assistant isn't working, these steps may help resolve the problem.

The microphone is off.

Turn on the microphone switch at the bottom of the TV. Each time the switch is turned on or off, the screen displays a pop-up window showing whether the microphone is turned on or off.

- If the microphone is turned off, all voice recognition features and some sound features involving the microphone do not work.
- The position and appearance of the microphone switch may differ depending on the model.
- 🧨 This function may not be supported depending on the model or geographical area.

The voice commands do not work well.

Voice commands may differ depending on the Voice Assistant. Refer to the command examples for each Voice Assistant.

- Bixby: **(**) > Explore Now
- 🧨 This function and Voice Recognition Solution Partner may not be supported depending on the model or geographical area.

Bixby/Alexa answers although I did not call it.

The TV may recognize an ambient noise or everyday conversation as a call to Voice Assistant.

Turn off the Voice Wake-up function or set the Wake-Up Sensitivity to Low.

- 🧨 This function and Voice Recognition Solution Partner may not be supported depending on the model or geographical area.

I spoke "Hi, Bixby/Alexa" but Bixby/Alexa does not answer.

When the TV is far from you or the ambient noise is so loud, the TV may be unable to recognize your voice.

• For best results, you need to be within 10 feet (3-4 m) of your TV. Please look at your TV screen and speak.

Turn on the Voice Wake-up function.

• ● > Explore Now > ⑳ Settings > Voice Wake-up

ℰ This function and Voice Recognition Solution Partner may not be supported depending on the model or geographical area.

Voice recognition does not work with the Samsung Smart Remote unlike other features. There is no response even if the Voice Assistant button is pressed.

The connection between the remote control and the TV may be lost. Try pairing the remote control with the TV.

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 does not work properly or its response is very slow, the battery might be low or dead.

- Charge the remote control by using the USB port (C-type) on the bottom, or turn over the remote to expose the solar cell.
 - You can check remaining battery of Samsung Smart Remote with solar cell in
 > ≡ (left directional button) >
 > Settings > All Settings > General & Privacy > Power and Energy Saving > Available Remote Battery. (Try Now)
 - In this function may not be supported depending on the model.
- If the remote control has batteries, replace them with new ones.

During voice recognition, the heavy load message appears and the function does not work.

Unplug and then plug the TV power cord and then try again after 1 minute and 30 seconds. It may take a while if the voice recognition server is being inspected.

I want to see weather information of the desired area.

Say with the area name included.

Other issues

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

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 TV smells like 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.

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

The TV is tilted to the side.

Remove the base stand from the TV and reassemble it.

The stand is wobbly or crooked.

Refer to the Unpacking and Installation Guide and make sure that the stand is assembled correctly.

I want to know how to attach and remove the TV stand.

For details on how to attach the stand, refer to the Unpacking and Installation Guide.

To remove the stand, follow the attachment steps in reverse order.

The Unpacking and Installation Guide can be downloaded from the Samsung Electronics website at https://www.samsung.com/support/.

A POP (TV's internal banner ad) appears on the screen.

Change Usage Mode to Home Mode.

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

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 utilizes 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 TV narrates the screen events in voice-over.

To turn off Voice Guide, move the focus from Accessibility Shortcuts to Voice Guide and then press the Select button. You can turn on or off Voice Guide. To run Accessibility Shortcuts, see the following:

• Press and hold the +/- (Volume) button on your Samsung Smart Remote or Remote Control.

Diagnosing TV operational issues

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

Self Diagnosis

Check whether the product is displaying images and playing sounds normally. Check whether modules and sensors are working normally. You can also configure settings related to Smart Hub reset.

- ✗ Some functions may not be supported depending on the model or geographical area.
- Power

View information on the power supply history.

• SW Version Information

Check the currently installed software version, and update the software to the latest version, if necessary.

• Video Test

Play test videos to check for problems with the screen.

• Picture Test

Use test photos to check for problems with the screen.

• Sound Test

Play test sounds to check the sound quality.

Remote Control

Check for problems with the Remote Control connection or buttons.

• HDMI Troubleshooting

Select the HDMI port and check whether the HDMI cable is connected properly.

• HDMI Signal

Check the signals, signal records and connections of external devices.

HDMI-CEC Check

Check for an abnormally operating HDMI-CEC connection.

• Smart Hub Connection Test

Check the network connection.

• Wi-Fi

Check whether the Wi-Fi module is working normally. The result may appear to be a failure if there is no available access point (AP) in the vicinity.

• Bluetooth

Check whether the Bluetooth module is working normally.

• IoT Module

Check whether the IoT Module is working normally.

• Acceleration Sensor

Check whether the Acceleration Sensor is working normally.

• Light sensor

Check whether the light intensity sensor is working normally.

• Mic Test

Check whether the microphone module is working normally.

• Broadcast Signal

Check the condition of the current broadcast signal.

• Reset Smart Hub

Reset the Smart Hub information.

Cannot select Broadcast Signal in Self Diagnosis.

Verify that the current channel is a digital channel.

Broadcast Signal is only available for digital channels.

Reset Smart Hub

Resets all Smart Hub settings to their factory defaults and deletes all information related to Samsung accounts, linked service accounts, Smart Hub service agreements, and Smart Hub applications.

Reset picture

Resets current picture settings to the default settings.

Reset sound

Resets current sound settings to the default settings.

Getting Support

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

Getting support through Remote Management

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

🧪 This function requires a network connection.

Finding the contact information for service

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

- 🖉 You can also view information by scanning the QR code of your TV.
- You can also start this function by pressing and holding the 🕑 button for 5 or more seconds. Continue holding the button until the customer information pop-up window appears.

Requesting service

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

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

Accessibility Guidance

Provides a menu and a remote control guide that aid the visually impaired.

Learn Menu Screen

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

Using the Remote control

You can see the description of the buttons on the Samsung Smart Remote or Remote Control.

🧪 The Samsung Smart Remote may not be supported depending on the model or geographical area.

Orientation of the Samsung Smart Remote or Remote Control

Hold the remote control with the buttons facing towards you. The side with the button in the upper left is the top of the remote control.

Description of the Samsung Smart Remote or Remote Control

🧪 The images, buttons, and functions of the remote control may differ with the model or geographical area.

From top to bottom and left to right:

- The 🕘 button is at the top left.
- Of the 2 buttons below the
 button on the Samsung Smart Remote, the left one is the
 button and the right one is the
 button.
- There is a small LED (microphone) between the 🔮 button and the 🚳 button on the Samsung Smart Remote, but it cannot be felt by hand.
- Of the 2 buttons below the 🛑 button on the Remote Control that comes with CU7/BEC Series (except for CU77** model), the left one is the 🔀 button and the right one is the 😨 button.

- If you press the 🕲 button and then press the down directional button or press the 🕲 button while viewing a program, the Recordings, Schedule Manager, Timeshift, Stop (when Record or Timeshift is running), Info, red, green, yellow and blue options appear.
 - Record and Timeshift may not be supported depending on the model or geographical area.
 - 🖉 Select the **Move to the top** button to move the menu to the top.
 - Inis function may not be supported depending on the geographical area.
- Underneath these 2 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 3 buttons, one on the left, one on the right, and one in the center. The one on the left is the S button and the one on the right is the button. The round button in the middle is the button.
- If you press the D button while watching a TV program, 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 program is running and the timeshift time.
 - Z 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 2 thin horizontal buttons. These buttons protrude higher above the surface 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 +/- (Volume) button to mute the sound.
 - Press and hold the +/- (Volume) button to open the Accessibility Shortcuts menu.
 - Briefly press the $^{/}$ (Channel) button to open the Guide.
 - Press and hold the $^{/}$ (Channel) button to open the Channel List.
 - Inis function may not be supported depending on the model or geographical area.

Using the Accessibility Menu

View how to use the Accessibility functions and descriptions on their 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, Caption, Sign Language Zoom, Sign Language Guide, Picture Off, High Contrast, Relumino Mode, Zoom Menu and Text, Grayscale, Color Inversion, Slow Button Repeat, and you can move to the Learn TV Remote, Learn Menu Screen, Multi-output Audio, Learn Gesture Functions, and Accessibility Settings pages.

- 🧪 The menu name may differ depending on the model.
- Samsung Smart Remote / Remote Control

On the Samsung Smart Remote or Remote Control, there are 2 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.

Running the Accessibility menu functions using the General menu

 \bigcirc > = (left directional button) > \circledast Settings > All Settings > General & Privacy > Accessibility (ry Now)

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 verbalize this menu unless Voice Guide is already turned on.

- 1. Press the 🙆 button.
- 2. Press the left directional button to navigate to ≡ Menu, and then press the up and down directional buttons to navigate to ⁽²⁾ Settings.
- 3. Press the Select button, and press All Settings to open the menu. Press Select to load the TV's Set menu.
- 4. Press the down directional button to reach General & Privacy, and then press the Select button to open this menu.

- 5. Place the focus on Accessibility, and press the Select button to open the 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, Volume, Speed, Pitch, and TV Background Volume.
- 8. Select the menu using the directional buttons, and then press the Select button.
 - The menus are activated when **Voice Guide** is on.

Running the Accessibility menu functions using Bixby

- This function is available only if Voice Assistant is set to Bixby. (a) > = (left directional button) > & Settings > All Settings > General & Privacy > Voice > Voice Assistant) (ry Now)
- 🖉 Bixby may not be supported depending on the model or geographical area.

To use Bixby, the TV must be set up and tuned and must be connected to the network. You can connect the TV to the network 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 network.

To speak a command, press and hold the **(**) button (located near the top right of the Samsung Smart Remote, directly right the **(**) 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 then say "Voice Guide on."

• Turn Audio (Video) Description on

Press the **(**) button on the Samsung Smart Remote, and then say "**Video Description on**" or "**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

Provides voice guides to make it easier for the visually impaired to use the TV. Voice guide supports basic operations such as changing channels and adjusting the volume, provides voice descriptions about the current broadcast and the following broadcast, and offers guidance on setting up Scheduled Viewing events. The feature also provides voice descriptions on Internet, Search, and other smart services.

Move to Voice Guide and press the Select button to enable/disable the feature.

• Audio Description

This feature provides commentary about what's happening in the scene as assistance for the visually impaired. However, the feature must be supported by the broadcast you are watching.

Caption Settings

You can view the caption in programs that provide broadcast captions.

When watching a channel on an external device such as a set-top box and cable box, turn on the caption function on the device. For more information, contact your service provider.

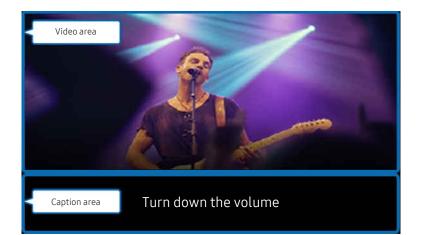
- Separate Closed Caption

You can see the caption separated from the broadcast image. The captions from the broadcaster are classified into *open caption and *closed caption. Two types of captions can overlap when both are used.

- 🖉 This feature is enabled when Digital Closed Caption is supported.
- 🖉 *open caption: Included in content. You cannot turn on or off its display.
- & *closed caption: You can turn on or off its display.

At this time, you can use this function to separate the caption from the broadcast image, which allows you to see the closed caption without interruption.

• On: Displays the screen with a separate caption area.



• Off: Displays the caption on the screen.



- Caption Mode

You can select a desired caption mode from the list.

- Digital Caption Options

You can set the caption display details.

The **Position** function is available only in the programs that provide captions. Your TV supports the caption from the broadcaster. Using this function, the caption can be positioned on a desired location. It can be used by the hearing impaired for convenience.

Sign Language Zoom Settings

You can zoom in the sign language screen when the program you are watching provides it. Set Sign Language Zoom to On and then adjust the window's position and aspect ratio under Edit Sign Language Zoom.

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

• Sign Language Guide Settings

Provides a description of menu items with sign language.

• 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.

Learn Menu Screen

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

• Picture Off

Turn off the TV screen and provide only sound to reduce overall power consumption. When you press a button on the remote control other than Volume and Power while the screen is off, the TV screen turns back on.

• Magnification

Enlarge the screen to make the picture or text bigger. You can adjust the zoom level or move the zoom area by following the displayed instructions.

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

• 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.

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

High Contrast

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

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

• Relumino Mode

This feature increases the contrast and brightness of the screen and emphasizes the outlines of images, so that viewers with low vision can see the screen more clearly.

This feature is only available when the input signal is TV or HDMI. It may not be available for some videos.

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

• Zoom Menu and Text

You can enlarge important elements on the menu such as the names of programs.

• Grayscale

You can change the color of the TV screen to black and white to sharpen blurred edges caused by colors.

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

Color Inversion

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

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

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

There are 3 ways to change the channel. Every time you change channels, the new channel details will be announced. The ways to change the channel are below.

• Channel List

Press and hold the $^{/}$ (Channel) button to open the Channel List. Use the up or down directional button to move to a channel and press the Select button.

• ∧/∨(Channel) button

Of the 2 buttons that protrude from the center of the Samsung Smart Remote or Remote Control, the right one is the $^{/}$ (Channel) button. Push up or pull down the $^{/}$ (Channel) button to change the channel.

• Number button

Use the 🚳 or 🔀 button on the Samsung Smart Remote or Remote Control to open the virtual numeric pad, enter a number, and then select Done.

Using on-screen number entry via the Samsung Smart Remote or Remote Control

Use the virtual numeric pad to enter numbers (e.g., to enter a channel number or to enter a PIN).

Press the
or
button on the Samsung Smart Remote or Remote Control and the virtual numeric pad with 2 rows appears on screen. Voice Guide speaks "virtual numeric pad, 6" which indicates that the number strip is on screen and the focus is on the number 6. This strip has the following buttons:

- In the top row, a list of Most Watched Channel is shown.
- Press the 🚳 or 🔞 button: On the bottom row: From the far left: 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, -, Delete
- 🧪 The options that you can select in the virtual numeric pad may vary depending on the viewing mode.

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 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 numeric pad will disappear from the screen.

Changing volume

Use the +/- (Volume) button on the left to change the volume. Every time you change the volume, the new volume level will be announced.

• Samsung Smart Remote / Remote Control

Of the 2 buttons that protrude from the center of the Samsung Smart Remote or Remote Control, the left one is the +/- (Volume) button. Push up or pull down the +/- (Volume) button to change the volume.

Using program information

When watching TV, press the Select button to view program information which then appears at the top of the screen. Voice Guide will say program subtitles or audio descriptions if they are available. To view more detailed program information, press and hold the Select button. Voice Guide will say more details such as a synopsis of the program.

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 programs are currently being broadcast on them.

Press 🔄 to go back or close the program details.

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

Using the guide

See an overview of each channel's program lineup.

When you want to know the program information for each channel while watching a broadcast program, press the $^{/\sim}$ (Channel) button on the Samsung Smart Remote or Remote Control. Use the directional buttons to view the program information.

You can see the daily program schedules for each channel and program information in the Guide. You can select programs to schedule for viewing or recording.

You can also open the Guide using Bixby. Press and hold the 🔮 button on your Samsung Smart Remote, and then say "Guide."

- ℰ This function may not be supported depending on the model or geographical area.
- The information in the Guide is for digital channels only. Analog channels are not supported.
- If the Clock is not set, the Guide is not provided. Set the Clock first. (
 > = (left directional button) >
 Settings > General & Privacy > System Manager > Time > Clock) (
 fry Now

If you need to set the clock again, follow the steps below.

- 1. Press the 🙆 button and press the left directional button on the remote control.
- 2. Press the down directional button to move to the & Settings.
- 3. Press the Select button, and press the right directional button to move to the All Settings.
- 4. Press the Select button to open the TV's All Settings menu.
- 5. Use the up and down directional buttons to move to the General & Privacy menu, and then press the Select button.
- 6. Use the up and down directional buttons to move to the System Manager menu, and then press the Select button.
- 7. Select the Time menu, and then press the Select button.
- 8. Select the Clock menu, and then press the Select button.
- 9. Select the Clock Mode menu, press the Select button, and then select Auto or Manual.
 - *I*f you select **Manual**, you can move to the **Date** or **Time** menu below to set the time or date.

When you open the **Guide**, a table grid of channels and programs is displayed. In the top rows, the selected filter type and the time are shown. Each row has a channel name on the left and programs 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 to move between programs at different times within a channel.

You can also use the 🚳 or 🌐 button to enter a channel number and go to that channel directly. You can use the 🔊 button to move to the program currently broadcasting.

When you move the focus to a program, you will hear detailed information about the selected program. When you move the focus to a different channel, you will hear the channel name and number, and the program details. If you move to a different day, you will hear the day announced for the first program 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 program on now

In the Guide, move to the program currently broadcasting, and then press the Select button to go to live TV on the selected channel and program.

Other options in the guide

In the Guide, move to a broadcast scheduled program, 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 (S) to close the menu and go back to the Guide.

 ${\mathscr{D}}$ For the program you are currently watching, press the Select button.

Record

You can record the program that you are currently watching or a program on another channel.

- This function is not available in the U.S.A. and Canada.
- This function may not be supported depending on the model or geographical area.
- Stop

You can stop the recording function that is currently running.

- ℰ This function is not available in the U.S.A. and Canada.
- This function may not be supported depending on the model or geographical area.

• Edit Recording Time

You can change the start and end times of scheduled program recordings.

- ℰ This function is not available in the U.S.A. and Canada.
- Inis function may not be supported depending on the model or geographical area.

Schedule Viewing

You can schedule the viewing of a broadcast scheduled program.

• Schedule Recording

You can schedule recording of a broadcast scheduled program.

- This function is not available in the U.S.A. and Canada.
- Inis function may not be supported depending on the model or geographical area.
- For more information, refer to "Recording."

• Cancel Scheduled Viewing

You can cancel your scheduled viewings.

• Cancel Scheduled Recording

You can cancel your scheduled recordings.

- ℰ This function is not available in the U.S.A. and Canada.
- 🖉 This function may not be supported depending on the model or geographical area.

• View Details

You can see the detailed information on the selected program. The information may differ with the broadcast signal. If the information is not provided with the program, nothing appears.

Press the Select button on the View Details option. This will open the details pop-up window for that program 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 program at a specific time and date.

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

The \bigcirc icon appears next to programs that have been configured for a schedule viewing.

✓ To set up a schedule viewing, you must first set the TV's clock (> = (left directional button) > Settings > All Settings > General & Privacy > System Manager > Time > Clock). (ry Now

Setting up a schedule viewing

You can set up a schedule viewing on two screens.

• The Guide Screen

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

• The Program Info Screen

Press the Select button while watching the TV. The Program Info window appears. Select a broadcast scheduled program by using the left or right directional buttons, and then press the Select button. You can schedule a reminder to watch the program by selecting Schedule Viewing.

Cancelling a scheduled viewing

You have 2 ways to cancel a scheduled viewing.

- Cancelling a scheduled viewing from the Guide
 - 1. Press the $^{/}$ (channel) button to access the Guide.
 - 2. Move to to the program to cancel the viewing schedule, and press the Select button.
 - 3. Move to Cancel Scheduled Viewing, and then press the Select button.
 - 4. When a pop-up message asking you to cancel the selected scheduled viewing appears, select Yes. The scheduled viewing is canceled and the Guide screen appears.
- Cancelling a scheduled viewing from Schedule Manager or Recordings
 - 1. On the remote control, press the 🚳 or 🏨 button.
 - 2. Use the directional buttons to move to the control pad.
 - 3. 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.

- 4. Press the up directional button to move to the Schedules option.
- 5. Use the down directional button to move to the list of programs scheduled to view.
- 6. Use the right directional button to move to the **Delete** option, and then press the Select button to delete the selected item.
- Inis function may not be supported 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 programs on other digital channels while watching TV.

Press and hold the ^/~ (Channel) button to open the Channel List.

The focus is on the channel you are currently watching, and the name and number of the channel, along with the program title, are displayed.

Use the up and down directional buttons to move within the channel list (or use the \wedge/\sim (Channel) button to go up and down a page at a time). You can also use the (a) or (b) button to enter a channel number and go to that channel directly.

Press the left directional button in the Channel List to move to the Category List. Use the up and down directional buttons to move within this list. Press the Select button to choose a category you want from the Category List. The Category List contains All Channels, Favorites, Samsung TV Plus, and Air or Cable. Use the up and down directional buttons to move to a channel you want to view, and then press the Select button.

• All Channels

Displays the channels that have been automatically searched.

- These are the channels your TV will receive either over the air if your TV is set to Air or over cable if your TV is set to Cable. See Air or Cable below.
- Favorites

Displays Favorites 1 to Favorites 5. Use the up and down directional buttons to move between the lists of favorites. Highlight the one you want, and then press the Select button. The channel list will now show only the channels in this list.

• Air or Cable

To select Air or Cable, move the focus to Air or Cable, and then press the Select button. Air is suitable for homes equipped with separate, over-the-air antennas. Cable is suitable for homes that subscribe to a local cable-service, but do not have a cable box. You do not need to use this function if your TV is connected to a cable box or satellite box.

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

Samsung TV Plus

While the TV is connected to the network, you can watch popular programs or highlights for each theme through a virtual channel at any time. As with regular channels, the TV provides the daily program schedules for Samsung TV Plus.

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

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

- ℰ This function is not available in the U.S.A. and Canada.
- ℰ 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 program that is on now, open the Guide by pressing the $^{/\sim}$ (channel) button, move to the program, and then press 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 program. You will be returned to the program guide. Recording automatically ends at the time when the program ends.

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

To record a program that is on later, move to the program in the Guide, and then press 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 the Select button. You will hear a message saying the program has been set to record and then you will be returned to the program guide.

The 🕞 icon is placed visually next to the program title to show it is set to record. To find out if a program is set to record or to cancel a scheduled recording, press the Select button on the program. 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 the Select button to go back to the program guide without cancelling the recording.

Recording the program you are watching

To display a menu for recording a program or starting the Timeshift function, press the 🚳 button twice or press the

Record

Immediately starts to record the program 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 program you ware watching.

Scheduling recording from the program info window

Press the Select button while viewing a program to display the program info window. In the program info window, use the left and right directional buttons to select a broadcast scheduled program, and then press the Select button. To schedule a recording for the program, select Schedule Recording.

Changing the recording time

When recording a live program 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 program you are watching, press the Select.

ℰ The maximum recording time differs depending on the capacity of the USB device.

Viewing recorded programs

- 1. On the remote control, press the 🚳 or 🌐 button.
- 2. Use the directional buttons to move to the control pad.
- 3. Select either Schedule Manager or Recordings to access the Recording & Schedule Manager screen.

To play a program, use the up and down directional buttons to move between program titles. Press the Select button to play the program 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. You can play, remove, delete the program, or view the program details.

Select the Play option to play the program. The program will start. If you have watched part of this program 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 then press the Select button.

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

Deleting a recorded program

You can delete any recorded program.

- 1. Go to the list of **Recordings** to delete a recorded program.
- 2. Use the up and down directional buttons to move to the recording you want to delete.
- 3. Press the right directional button to move to a list of 3 options.
- 4. Press the down directional button to move to the **Delete** option, and then press the Select button.
 - \checkmark You will be asked if you want to remove the selected item.
- 5. Press the left directional button to move to the **Delete** button, and then press the Select button to delete the program title.
 - Interprogram will be deleted and you will be returned to the list of Recordings.

Using Smart Hub

Learn how to use Smart Hub to access apps, games, movies, and more.

Smart Hub

Use a variety of Smart Hub content offered by your Samsung TV.

- ℰ Some Smart Hub services are for pay services.
- To use smart functions, you should connect to a network, agree to the terms and conditions, and log in with your Samsung account.
- ✗ 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.

Press the fight button. You are redirected to the Home Screen of the content you are currently using. Press the left directional button, and try moving the focus to other items.

Use a variety of Smart Hub content, as follows: Privacy Choices, Samsung Account, Search, Ambient, Art, Game, Media, Menu.

Supported Smart Hub content may vary depending on the model and geographical area.

Using the Smart Hub Home Screen

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

• 🗟 Privacy Choices

From your TV, easily manage the privacy policy regarding services related to Smart Hub and verify how personal information is protected.

- 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 & Privacy by navigating to
 > = (left directional button) > \$\$ Settings > All Settings > General & Privacy > Terms & Privacy. (ry Now)
- If you want to stop using Smart Hub, you can cancel the agreement. To cancel the Smart Hub service agreement, select Reset Smart Hub () > = (left directional button) > Settings > Support > Device Care > Self Diagnosis > Reset Smart Hub). (iry Now)
- Inis function may not be supported depending on the model or geographical area.

Samsung Account

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

For more information, refer to "Using a Samsung account."

• Q Search

Search for channels, programs, movies, and apps offered by Smart Hub.

- To use the Search service, make sure the TV is connected to a network.
- In this function may not be supported depending on the model or geographical area.

💿 Ambient

Set your TV to display content you desire, such as the time or weather, when the TV is not used.

To return to TV mode from Ambient mode, press (a) > the left directional button > Media. Press the button to turn off the TV.

- Inis function may not be supported depending on the model or geographical area.
- For more information, refer to "Using Ambient Mode."

💻 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, photos, or to display the content.

- ℰ This function is supported only in The Frame.
- For more information, refer to "Using Art Mode."

🔸 🎮 Game

Play games from the TV screen by connecting a Controller to the TV. Configure settings to optimize the Controller and audio device for playing games.

- 🖉 This function may not be supported depending on the model or geographical area.
- 🖉 For more information, refer to "Using Samsung Gaming Hub."

• 🗾 Media

View a variety of TV programs. Install various apps offered by Smart Hub, such as video, music and sports apps, and use the apps from the TV.

🖉 For more information, refer to "About the Media Home Screen."

• ≡ Menu

Manage external devices connected to the TV, and configure settings for various functions available on the TV.

🖉 For more information, refer to "About the Menu Home Screen."

Launching the e-Manual

Open the user manual embedded in your TV.

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 (https://www.samsung.com).
- & Words in blue (e.g., Internet) indicate a menu item.

The e-Manual's Home Screen contains 1 row of menu icons. Use the left and right directional buttons to move within a row. Press the Select button to open the section you want to read.

You can use the directional buttons on the remote control to use the functions on the top such as Search, Sitemap, and Index.

The e-Manual contains a section called "Learn TV Remote" in "Accessibility Guidance". 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.

Using Bixby

Set Voice Assistant to Bixby. A guide to using Bixby to control your TV.

To use Bixby, your TV must be connected to the network 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.

- This function may not be supported depending on the model or geographical area.
- The existing functional specifications may be changed if Bixby is updated.
- This function is available only if Voice Assistant is set to Bixby. (
 Settings > General & Privacy > Voice > Voice Assistant) (
 Try Now
- 🖉 The supported language may differ depending on the geographical area.

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.
- ℰ This function may not be supported depending on the model or geographical area.
- You can find a detailed description of the voice commands at **Explore Bixby**. Press the **O** button. The **Explore Now** button appears at the bottom of the screen. Press the Select button to go to the **Explore Bixby** screen.