SAMSUNG

User guide

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

www.samsung.com

Model _____ Serial No. _____

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

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197 The picture colours look like black and white or do not look the way they should look

198 The Product automatically turns off by itself

198 The Product image does not look as good as it did in the store

199 Displayed video looks blurry

199 The picture is distorted

199 There is a dotted line on the edge of the screen

200 The picture won’t display in full screen

200 The Subtitle function in the Product menu is deactivated

200 Subtitles appear on the Product screen

200 The HDR of the connected external device turns off

201 It's inconvenient that the Now brief runs automatically even when I sleep at night.

201 The screen turns on automatically and displays information, such as the clock and weather, even when the power is off.

Sound and Noise Issues

202 How can I connect an audio device to the Product?

202 There is no sound or the sound is too low at maximum volume.

202 The picture is good but there is no sound.

203 HDMI (ARC) is connected, and there is no sound.

203 The speakers are making an odd sound.

203 The sound is interrupted.

203 Whenever a function is used on the Product or the channel is changed, the Product voices the activity. The Product explains in voice-over the video scenes displayed on the screen.

204 The Product audio is not being played through the Soundbar or A/V receiver.

204 The sound is not heard clearly.

205 The volume of the external device cannot be adjusted.

205 I want to turn off and on the Product and audio device at the same time.

External Device Connectivity Issues

206 The "Mode Not Supported" message appears.

206 The video is OK but there is no audio.

206 I want to connect to a PC and mobile device via screen mirroring.

207 Proper operation cannot be guaranteed if this is lined and used through an external USB hub.

207 No screen appears when connecting the Product to an external device.

207 I want to connect to a Bluetooth speaker.

208 The PC screen does not appear or it flickers.

208 The computer does not wake up through Wake PC.

208 A special key on the keyboard or mouse is entered automatically.

209 The displayed image size does not fit the screen, the image colours are blurred, or the text does not appear clear.

209 A computer has been connected, but the Expert Settings option is greyed out.

209 I want the Product screen to turn off immediately when the connected external device turns off.

210 The camera does not work in the Product app.

210 The Product's camera does not work on my computer.

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Network Issues

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211 Wired network connection failed.

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212 What is Anynet+?

212 Anynet+ does not work. The connected device is not displayed.

213 I want to start Anynet+. I also want the connected devices to turn on when the Product is turned on.

213 I want to exit Anynet+. It is inconvenient to turn on other devices because the Product also turns on. It is inconvenient because the connected devices (e.g. set-top box) turn off together.

213 The message "Connecting to Anynet+ device..." or "Disconnecting from Anynet+ device" appears on the screen.

213 The Anynet+ device won't play.

Remote Control Issues

214 The remote control does not work.

215 The mobile remote control does not work.

215 External devices cannot be operated with the Product remote control.

215 When I turn on the product with the remote control, another device is also turned on.

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216 I cannot find the app I want.

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218 The voice commands do not work well.

218 Bixby/Alexa answers although I did not call it.

219 I spoke "Hi, Bixby/Alexa" but Bixby/Alexa does not answer.

219 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.

220 During voice recognition, the heavy load message appears and the function does not work.

220 I want to see weather information of the desired area.

Touch issues

221 Touch does not work in some apps.

221 The Netflix control bar moves in the opposite direction.

221 After searching on Netflix, the search results do not respond when touched.

Other issues

222 The Product is hot.

222 The Product smells like plastic.

222 The settings are lost after 5 minutes or every time the Product is turned off.

223 The Product is tilted to the side.

223 The stand is wobbly or crooked.

223 I want to know how to attach and remove the Product stand.

224 A POP (Product's internal banner ad) appears on the screen.

224 The Product is making a popping noise.

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Guide

Learn how to use various features.

Connections

You 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 Product.

> left directional button > Connected Devices > Connection Guide Try Now

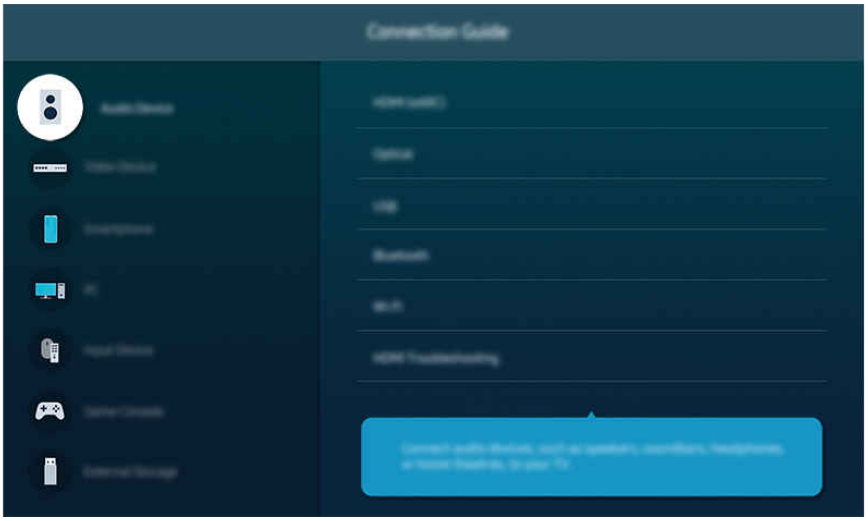
It shows you how to connect various external devices, such as Audio Device, Video Device, Smartphone, PC, Input Device, Game Console and External Storage using pictures on the screen.

If you select the connection method and an external device, the connection details appear.

- 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).

- 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 Share, Apple AirPlay
- PC: HDMI, DisplayPort, USB-C, USB Upstream, Screen Sharing (Wireless), Easy Connection to Screen, Apple AirPlay
- Input Device: Remote Control, USB Keyboard, USB Mouse, USB Gamepad, USB Camera, Bluetooth devices
- Game Console: HDMI
- External Storage: USB Flash Drive, Hard Disk Drive (HDD)



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

Connecting to the network

You can get access to the network through your Product.

> left directional button > Settings > All Settings > Connections > Network > Network Settings Try Now

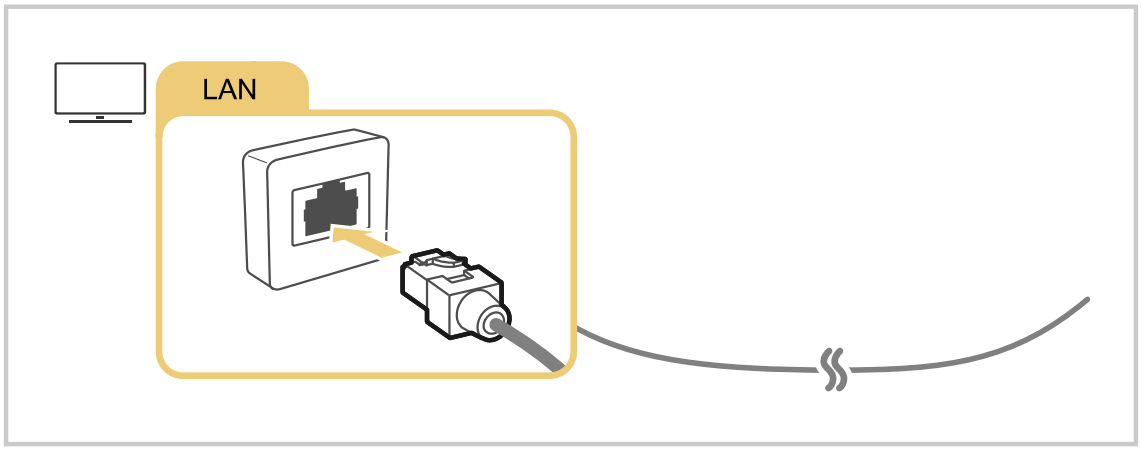
Configure network settings to connect to an available network.

- To ensure safe and secure use of the product, connect to the network using a securely managed router.
- When the network is connected, it enables casting YouTube content, DLNA, Wi-Fi Speaker, SmartThings, Easy Setting Box and Screen Mirroring. Services supported by software updates are subject to change.

Establishing a wired network connection

> left directional button > Settings > All Settings > Connections > Network > Network Settings > Wired

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



- If the Product 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)

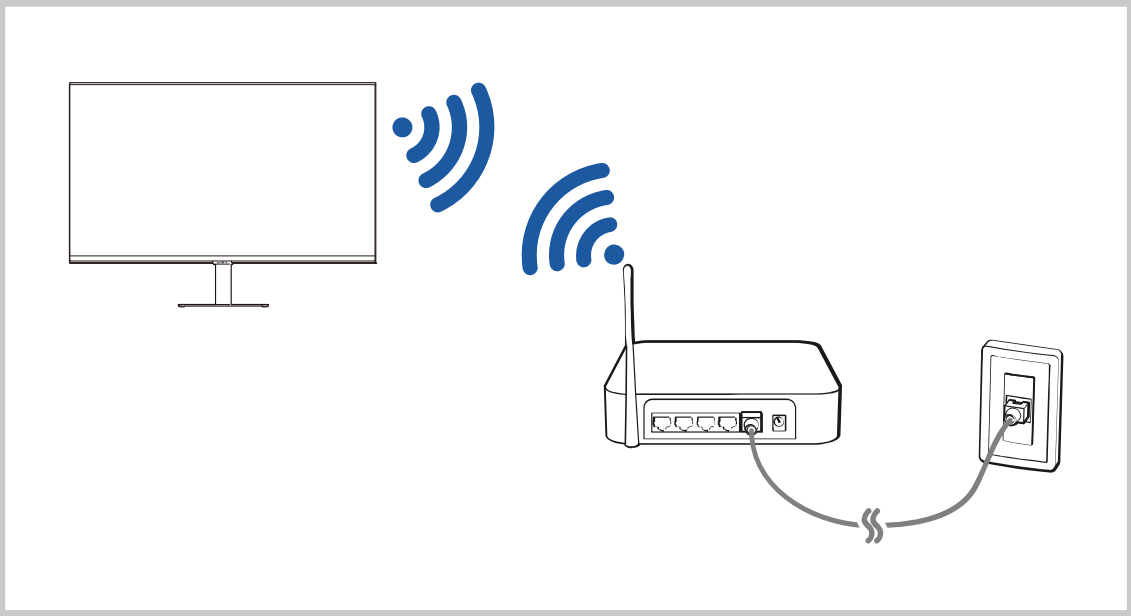
  * Shielded Twisted Pair
- The Product will not be able to connect to the network if your network speed is below 10 Mbps.
- This function may not be supported depending on the model.
- Wired networks are not supported by some models.

Establishing a wireless network connection

Home > left directional button > Settings > All Settings > Connections > Network > Network Settings > Wireless

The menu name may differ depending on the model.

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.





- The image on your Product 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 Product will connect automatically.
- To view or delete previously connected network names (SSIDs), move the focus to **Manage**, and then press the Select button.
- To disconnect Wi-Fi, select **Disconnect** in > left directional button > **Settings** > **All Settings** > **Connections** > **Network** > **Network Status**. Try Now

Checking the network connection status

> left directional button > **Settings** > **All Settings** > **Connections** > **Network** > **Network Status** Try Now

View the current network status.

Resetting Your Network

> left directional button > **Settings** > **All Settings** > **Connections** > **Network** > **Reset Network** Try Now

Restore the network settings to the factory default.

Turning on the Product with a mobile device

> left directional button > Settings > All Settings > Connections > Network > Expert Settings > Power On with Mobile Try Now

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

This function is available with a mobile device connected to the Product 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 Product

> left directional button > Settings > All Settings > Connections > Network > Expert Settings > IP Remote Try Now

You can connect an IP control device to the Product 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 Product. We recommend turning this feature on only if an authorised third-party custom controller is installed and configured specifically for a Samsung Product and if your Wi-Fi network is password protected.

This function may not be supported depending on the model.

Allowing to connect a wireless network

> left directional button > Settings > All Settings > Connections > Network > Expert Settings > Wi-Fi Try Now

You can enable the connection to Wi-Fi.

To connect a wireless network, the function must be active.

Changing the name of the Product

> left directional button > Settings > All Settings > Support > *About the Smart Monitor > Edit Name Try Now

You can change the name of the Product on the network.

*: The menu name may differ depending on the model.

Displaying your mobile device screen on the Product

You can watch the screen of your mobile device on the Product 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 Product 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 > left directional button > Connected Devices > Connection Guide > Smartphone > Screen Sharing (Smart View). Try 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 > left directional button > Connected Devices > Connection Guide > Smartphone > Apple AirPlay. Try 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 > Connections > Apple AirPlay Settings is enabled.

Using Screen Sharing (Tap View)

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

- This function may not be supported depending on the model.
- This function is available in Samsung mobile devices with Android 8.1 or higher.
- When the Product is in power saving mode, the Tap View feature is not available.

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 Product. The Product screen switches to Multi View, Music Wall, or mobile device's screen.
   - Be sure to tap away from the Product screen and bezel corners. It may scratch or break the Product 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 Product.
4. Watch Multi View, Music Wall, or mobile device's screen on the Product 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.
- The displayed Product 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 Product.

Enabling Tap View

Enable Tap View in the SmartThings app.

- Depending on the SmartThings app version, you may need to register the Product with your mobile device.
- This function may not be supported depending on the model.

1. Launch the SmartThings app on your mobile device.
2. Select Settings (☰ > ⚙) 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 Product.

Switching between external devices connected to the Product

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

> left directional button > Connected Devices

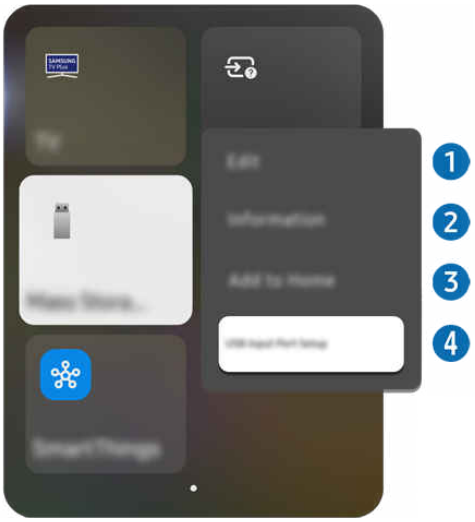
When you select a connected external device on the Source screen, the output of the selected device is displayed on the Product's screen.

- To control a device (Blu-ray player, game console, etc.) that supports universal remote control with the Product's remote control, connect the device to an HDMI port on the Product, and then turn on the device. The output displayed on the Product 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.
- This function may not be supported depending on the device and geographical area.

Editing the name and icon of an external device

> left directional button > Connected Devices

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



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

1. Move the focus to a connected external device.
2. Press and hold the Select 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.

4 USB Input Port Setup

Set up the device to connect to the smart monitor USB port and set up the port changing type.

This function may not be supported depending on the model.

Using additional functions

- SmartThings

  You can use the SmartThings feature.

  It allows the Product 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.

- Samsung TV Plus

  When the product is connected to a network, popular programmes or theme-specific highlights are provided for viewers 24 hours a day. A programming schedule for Samsung TV Plus is also provided to let you know when to tune in.

  Depending on the model, this feature may not be supported.

- TV Access

  By mirroring, you can watch TV from the Product screen.

  For more information, refer to "Using TV Access".

  This function may not be supported depending on the model.

- Connection Guide

  Displays device connection instructions.

  For more information, refer to "Connection Guide".

- Universal remote setup

  Register an external device, and control both the product and the external device with a single remote control.

  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 types, names, locations and number of supported ports may differ, depending on the Product.

Refer to the external device's operating manual when connecting it to the Product. 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 Product due to different HDMI specifications.
- This Product does not support HDMI Ethernet Channel. Ethernet is a Local Area Network (LAN) built with coaxial cables standardised by the IEEE.
- Use a cable shorter than 10 feet (3 m) to get the best UHD 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 cable.
- When the Product 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 Product 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.

- Automatic device detection operates each time a new HDMI external device is connected.
  - The automatic device detection function recognises external devices to provide the user with an optimised viewing environment.
  - If a computer has been connected, press the down directional button on the remote control when the function is activated, as shown in the guide displayed at the bottom of the screen. The device name is immediately set to PC.
  - If a connected device is not recognised by the automatic device detection function, the device name is indicated as Unknown and the menu used to manually set the device name appears. From the menu, press the Setup button to manually set the device name.
  - If a computer connected via HDMI is recognised as an unknown device, the display picture quality may not appear appropriate for a computer display. In that case, press the Setup button to change the device name to PC.
  - If you select the Later button, the menu is closed and the connected device name remains Unknown. You can manually change the device name later. For details on how to manually set a device name, refer to "Controlling External Devices with a Samsung Remote Control - Using the Universal Remote Setup".

Connection notes for USB Type-C

This function may not be supported depending on the model.

- Check the bandwidth of your USB Type-C cable whether it is available. The output may not be adequate depending on the cable specification and condition.
- Do not quickly connect or disconnect the connector and power cable, because it requires some time.
- Due to the compatibility issue, the function may not be available when any Thunderbolt device is connected using a cable.
- When charging with a USB Type-C cable, malfunction may occur depending on the device type. In this case, use the provided charger or consult the manufacturer of the device.

Connection notes for audio devices

- To obtain better Product audio quality, connect a soundbar or A/V receiver to the Product.
- 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 Quick Settings screen to change to the connected device:

    Use the Select button to select Receiver (Optical) on the Sound Output menu. (> left directional button > Settings > Sound Output > Select button to toggle between sound output modes). Try Now

  – Use the Settings screen to change to the connected device:

    Select Receiver (Optical) on the Sound Output menu. (> left directional button > Settings > All Settings > Sound > Sound Output). Try Now

    Refer to the soundbar's user manual when connecting it to the Product.

- 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 resolutions supported by the Product, refer to the Product user manual from the Samsung Electronics website at https://www.samsung.com.
- If you want to connect your PC and Product wirelessly, both of them must be connected to each other on the same network.
- When sharing content with other network-based devices, such as those in an IP (Internet Protocol) storage system, sharing may not be supported due to the network's configuration, quality, or functionality, for example, if the network has an NAS (Network-Attached Storage) device.

Connection notes for mobile devices

- To use the Smart View function, the mobile device must support a mirroring function, such as Screen Mirroring or Smart View. To check whether your mobile device supports the mirroring function, refer to the mobile device's user manual.
- 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.
- The mobile device and your Product 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. Try Now

  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 an NAS (Network-Attached Storage) device.

Using Multi Control

Connect to nearby Galaxy devices to control them using the same keyboard and mouse.

> left directional button > Settings > All Settings > Connections > Multi Control Try Now

Turn on Multi Control to connect nearby Galaxy devices and use them with your keyboard and mouse.

To connect to nearby devices, turn on Multi Control, Wi-Fi and Bluetooth on the devices and logged in with the same Samsung account.

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

This feature may not be supported, depending on the Galaxy device model and the One UI version.

Using Quick Share

Home > left directional button > Settings > All Settings > Connections > Quick Share Try Now

Easily transfer and save photos wirelessly from your Galaxy devices.

This function may not be supported depending on the model.

- Samsung Account

  If you're signed in with the same Samsung account as your Galaxy devices, you can easily receive images.

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

- Who can share with you

  Choose who can share content with you.

- Smart Monitor Name

  This name will appear on the other device when you connect.

  The menu name may differ depending on the model.

Using Storage Share

Connect to a nearby Galaxy device to access its storage and check stored files.

Home > left directional button > Settings > All Settings > Connections > Storage Share Try Now

Turn on the Storage Share feature. The Galaxy devices in the vicinity can be found in the list under Connected Devices. Select the intended device from the list, and access the device storage to check stored files.

To connect to those devices, make sure that Storage Share mode, Wi-Fi and Bluetooth are enabled and the same Samsung account is logged in on all the devices.

This function may not be supported depending on the model.

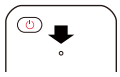
This feature may not be supported, depending on the Galaxy device model and the One UI version.

Remote Control and Peripherals

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

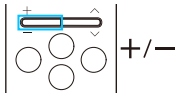
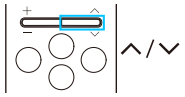
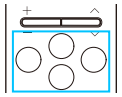
About the Samsung Smart Remote (Remote Control)

Learn about the buttons on the Samsung Smart Remote.

Button	Description
(Power)	Press to turn the Product on or off.
 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. This function may not be supported depending on the model or geographical area.
(AI)	Press the button to open the Samsung Vision AI Companion function. Samsung Vision AI Companion is an interactive AI service that answers questions and provides information users require. • Launch Samsung Vision AI Companion and explore key AI features. • This function may not be supported depending on the model or geographical area.
/ (Voice Assistant)	Runs Voice Assistant. Press and hold the button, say a command, and then release the button to run Voice Assistant. The supported Voice Assistant's languages and features may differ by geographical region. This function may not be supported depending on the model or geographical area.

Button	Description
(Settings - Number - Colour button)	You can access Settings menu / virtual numeric pad / SmartThings / Connected Devices directly. • Accessing the SmartThings app using this button may not be supported, depending on the model. • 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 value. Use to change the channel, enter a PIN, ZIP code and etc. If the Colour Button appears with a number strip on the screen, select the Colour Button and then select a specific colour by using the directional button (up, down, left, right).
(Settings / Number / Option button)	You can access Settings menu / virtual numeric pad / SmartThings / Connected Devices directly. • Accessing the SmartThings app using this button may not be supported, depending on the model. • 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 value. Use to change the channel, enter a PIN, ZIP code and etc.
(Colour Button)	When pressed, coloured buttons appear on the screen. Use this button to access additional options that are specific to the feature in use. This function may not be supported depending on the model or geographical area.
Directional button (up, down, left, right)	Moves the focus.

Button	Description
Select	Selects or runs a focused item. When pressed while you are watching a broadcast programme, detailed programme 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 programme, the previous channel appears.
(Smart Hub)	Press to switch to the Home Screen. • If you press this button for more than 1 second, the same function found when pressing the button is provided. : This function may not be supported depending on the model or geographical area.
(Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing. To use Game Bar, press and hold the button in Game Mode. Game Bar may not be supported depending on the model or geographical area.

Button	Description
 (Volume)	Push the button up or down to control the volume. Press the button to mute. Press and hold for 2 seconds or longer to load Accessibility Shortcuts. may not be present, depending on the model.
 (Channel)	Move the button up or down to change the channel. To see the Guide screen, press the button. When pressed for 1 second or more, the Channel List screen appears. Press and hold the button up or down to quickly change the channel.
 Launch app button	Launch the app indicated by the button. Available apps may differ depending on the geographical area or contents provider. This function may not be supported depending on the model.

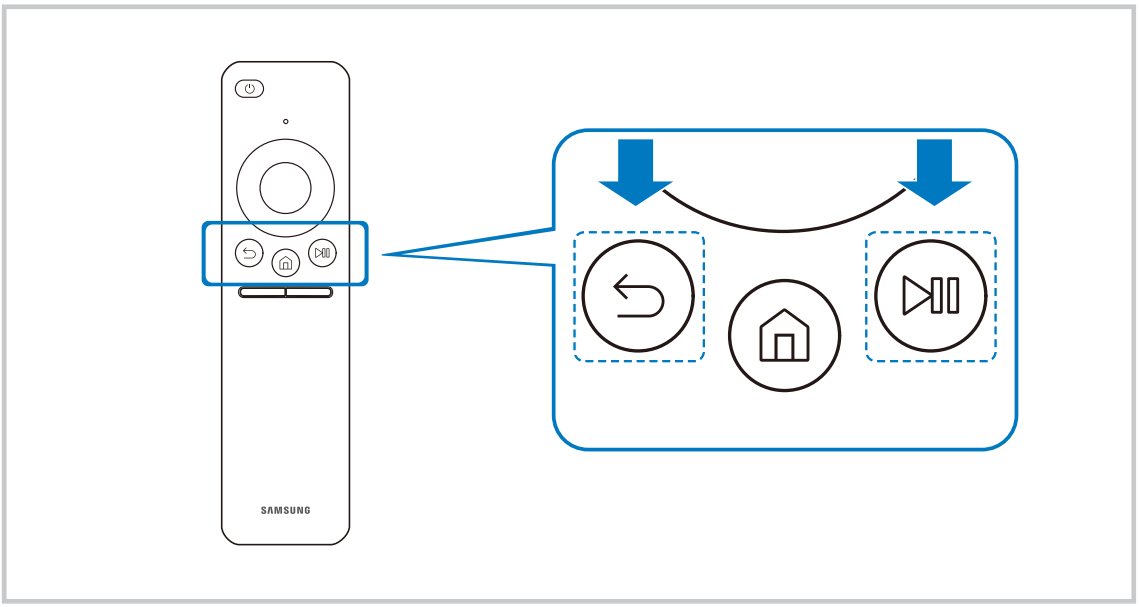
- The Samsung Smart Remote may not be provided, depending on the model or geographical area. Use mobile remote control functions from the SmartThings app on your mobile device. For more information, refer to "Using a mobile remote control".
- In standby mode, press any button on the remote control to turn on the screen.
- The functions related to the broadcast and channel are available only in some apps or external devices.
- Use the Samsung Smart Remote(TM236*, TM256*) less than 6 m from the Product. 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".
  - M90SF/LSM7F models: When controlling a connected external device using the universal remote, point the remote toward the external device.
- 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 Product using an HDMI cable. For more information, refer to "Using Anynet+ (HDMI-CEC)".
- If the orientation of the remote control(TM236*, TM256*) is incorrect, some models may display an alert asking users to hold it correctly. To turn off the alert, access Remote Grip Sensor.(Home > left directional button > Settings > All Settings > General & Privacy > Remote Control > Remote Grip Sensor)
- For specific functions of each button on the Samsung Smart Remote(TM236*, TM256*), access the Remote Control Guide. (Home > left directional button > Settings > All Settings > Support > Tips and User Guides > Remote Control Guide)

Connecting the Samsung Smart Remote to the Product

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

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

- Pairing is not available in M5 series.
- The Samsung Smart Remote may not be provided, depending on the model or geographical area. Use mobile remote control functions from the SmartThings app on your mobile device. For more information, refer to "Using a mobile remote control".
- The images, buttons and functions of the Samsung Smart Remote may differ with the model or geographical area.



Using a mobile remote control

Control the Product using the remote control for a mobile device.

Use mobile remote control functions from the SmartThings app on your mobile device. If your Product is not registered in the mobile SmartThings app, open the mobile remote control using the following method.

1. Press the power button on the back or top of the Product, and the menu will appear on the screen.
2. Select the mobile remote control.
3. Scan the QR code displayed on the screen.

Before using the mobile remote control, please refer to the User guide provided by the mobile remote control.

- Users may need to update the SmartThings app to the latest version.
- This function may not be supported depending on the model.
- The images, buttons, and functions of the mobile remote control may differ depending on the model or geographical area.

About the Ark Dial

Learn about the buttons on the Ark Dial. Use the Ark Dial to freely change the screen settings or switch the mode, without having to hold the remote control. Use the Ark Dial to access the Ark Dial Menu.

This function is only supported for the Odyssey Ark.

Button	Description
(Solar Cell)	Expose to light when the remote is not in use. This will extend the remote's operating time.
• (LED)	The LED on the front will light when charging. When the battery is fully charged, the LED will turn off. This function may not be supported depending on the model or geographical area.
(Power)	Press to turn the Product on or off.
(Source)	Press to change the input source of the Product. Press repeatedly to toggle from among connected external input sources.
(Return)	Press to return to the previous menu.
+/— (Volume)	Move the button up or down to adjust the volume.
(Enter)	Selects or runs a focused item
(Ark Dial Menu)	Displays the Ark Dial Menu.
(Wheel)	Turn the wheel to move the focus or to adjust the screen size or position. The functionality may differ depending on the apps supported by the Product. The focus moves when the sensor detects turning of the wheel, and the movement may not be simultaneous with the wheel turning sound.
Directional button (up/down/left/right)	Use the directional keys to move the focus or adjust the screen position.

For more information about the Ark Dial Menu, refer to "About the Ark Dial Menu".

In standby mode, press any button on the Ark Dial to turn on the screen.

Use the Ark Dial less than 6 m from the product. The usable distance may vary with the wireless environmental conditions.

The Universal Remote function operates normally only when you use the Ark Dial that comes with the product.

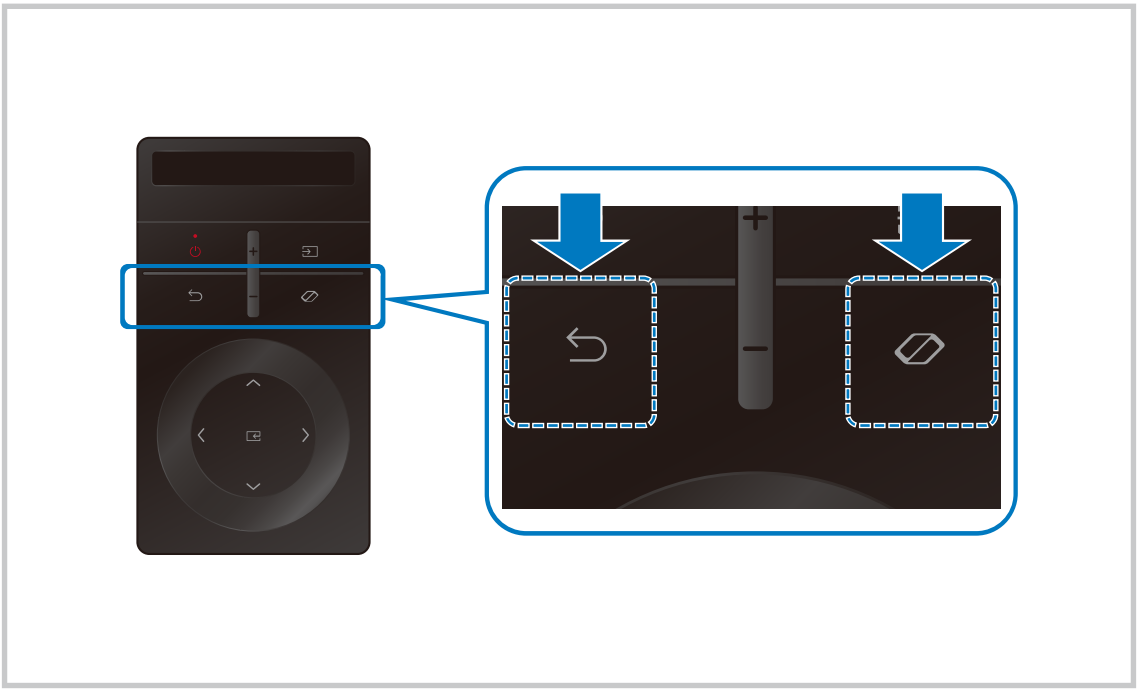
The images, buttons and functions of the Ark Dial may differ with the model or geographical area.

Connecting the Ark Dial to the product

Connect the Ark Dial to your product to operate the product.

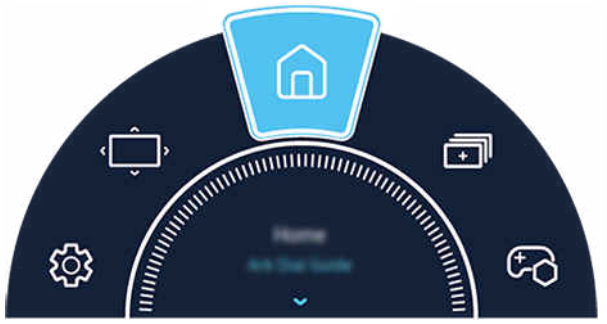
When you turn on the product for the first time, the Ark Dial pairs to the product automatically. If a connection is not established automatically, direct the Ark Dial at the front of the Product and press ⮌ (Return) and ⌀ (Ark Dial Menu) together for more than 3 seconds.

This function is only supported for the Odyssey Ark.



About the Ark Dial Menu

From the Ark Dial Menu, press the Down key on the Ark Dial to access the Ark Dial Guide. Use the Ark Dial Guide to find out about the useful features of the Ark Dial.



Items	Description
Quick Settings	Quick Settings can be used to quickly configure frequently used features.
Flex Move Screen	Enlarge or reduce the screen size.
Home	Press to return to the Home Screen.
Multi View	You can simultaneously view multiple screens that are split.
Game Bar	Control the Game Settings and Game Enhancer Settings easily by using the Game Bar.

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

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

> left directional button > Connected Devices > Universal remote setup

You can control all external devices connected to the Product 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 Product's remote control without any additional setup. For more information, refer to "Using Anynet+ (HDMI-CEC)".
- Specific external devices connected to the Product may not support the universal remote feature.
- Do not place any obstacle in front of an external device or the Product's logo. It may cause improper transmitted signals from the remote control.
- The Product memorises both the external device and its connection port (HDMI 1, HDMI 2, etc.).
- If you have difficulty controlling external devices with the Universal Remote Setup, try adjusting the positions of the external devices.
- This function may not operate properly depending on the Product installation environment and the features of external devices.

Learn how to use Samsung Smart Remote

You can learn how to use Samsung Smart Remote.

> left directional button > Settings > Support > Tips and User Guides > Remote Control Guide Try Now

Find details on how to use the Samsung Smart Remote.

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

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

Learn how to use Ark Dial

You can learn how to use Ark Dial

Home > Menu > Settings > Support > Tips and User Guides > Ark Dial Guide Try Now

Use the useful features of Ark Dial.

- The Ark Dial is supplied with the Odyssey Ark.
- If you press on the Ark Dial, you can access the following menu items: Quick Settings, Flex Move Screen, Home, Multi View, Game Bar.
- From the Ark Dial Menu, press the Down key on the Ark Dial to access the Ark Dial Guide.

Learn how to use Game Controller

You can learn how to use Game Controller.

Home > left directional button > Settings > Support > Tips and User Guides > Game Controller Guide Try Now

Find details on how to use the Game Controller.

Press the menu to learn more about the functions of each Game Controller button.

- This function may not be supported depending on the model.
- Button layouts may vary between controllers.

Using Anynet+ (HDMI-CEC)

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

You can use the Product's remote control to control external devices that are connected to the Product 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.

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

Connecting an external device through Anynet+ and using their menus

Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Anynet+ (HDMI-CEC) Try Now

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

The device is automatically connected to the Product. After the connection process is finished, you can access the menu of the connected device using your Product 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 Product with an HDMI cable. Note that some HDMI cables may not support Anynet+ (HDMI-CEC).
- You can configure the Product's Universal Remote to control third-party cable boxes, Blu-ray players, and home theatres that do not support HDMI-CEC. For more information, refer to "Controlling External Devices with a Samsung Remote Control - Using the Universal Remote Setup".
- Anynet+ cannot be used to control external devices that do not support HDMI-CEC.
- The Product 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 theatres. Anynet+ (HDMI-CEC) can control only one home theatre system.
- To listen to 5.1 channel audio from an external device, connect the device to the Product via an HDMI cable and connect a 5.1 home theatre system directly to the external device's digital audio output connector.
- If an external device has been set up for both Anynet+ and a universal remote control, the device can be controlled only with the universal remote control.

Controlling the Product with a Keyboard, Mouse, or Gamepad

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

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

Connecting a USB keyboard, mouse, or gamepad

Home > left directional button > Connected Devices > Connection Guide > Input Device

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

- This function may not be supported by some apps or external devices.
- XInput USB gamepads are supported.

Connecting a Bluetooth keyboard, mouse, or gamepad

Home > left directional button > Settings > All Settings > Connections > Bluetooth Try Now

- If your device was not detected, position the keyboard close to the Product, and then select Scan. The Product scans for available devices again.
- This function may not be supported by some apps or external devices.
- A maximum of four gamepads can be connected, regardless of connection method (e.g., USB or Bluetooth).
  - When using two Bluetooth audio devices, it is best to use USB gamepads.
  - When using one Bluetooth audio device, up to two Bluetooth 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	Press to return to the previous menu, or press and hold to close whatever is running on the screen.
Number Keys	Enter numbers
F1 key	Turns on or off the Product
F2 key	Each time you press the button, the focus switches between the virtual numeric pad, Connected Devices menu, Settings menu and SmartThings app.
F3 key	Plays/pauses
F4 key	Displays the Settings screen
F5 key	Displays the Home Screen
F6 key	Displays the Source screen
F7 key	Displays the Channel List
F8 key	Mutes the sound
F9 / F10 key	Adjusts the volume
F11 / F12 key	Changes the channel
Page Up / Page Down	Scrolls a webpage displayed by the Internet app.
Left-click	Selects and runs an item. This function is not available in some apps. You can click a menu or link to start a function as you do on a PC.
Right-click	Calling up shortcut buttons, such as ///
	Easily access a menu by right-clicking on the mouse and selecting the menu from among the displayed shortcut buttons. Displayed shortcut buttons may differ, depending on the screen.

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

Using the Gamepad

Check the supported gamepads. Try Now

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

Manufacturer	Controllers	Connection	Force feedback
Logitech	F710	USB	O
	F510	USB	O
	F310	USB	-
Joytron	CYVOX DX	USB	O
Microsoft	Xbox 360 controller	USB	O
	Xbox One controller	USB	O
		Bluetooth	O
	Xbox Elite Wireless Controller Series 2	USB	O
		Bluetooth	O
	Xbox Adaptive controller	USB	-
		Bluetooth	-
	Xbox Series X controller	USB	O
		Bluetooth	O
Sony	DualShock 4	USB	O
		Bluetooth	O
	DualSense Controller	USB	O
		Bluetooth	O
	DualSense Edge Controller	USB	O
		Bluetooth	O
Google	Stadia controller	USB	-
PowerA	MOGA XP5-X Plus Bluetooth controller	USB	-
		Bluetooth	-
Amazon	Luna controller	USB	O
		Bluetooth	O
Nvidia	Shield controller	USB	-
		Bluetooth	O
Nintendo	Switch Pro Controller	USB	O
		Bluetooth	O
	Switch Joy-Con Controller	Bluetooth	O
PDP	Replay Wireless Controller - Designed For Samsung Gaming Hub	Bluetooth	O

- 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.)

  * This product 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.
- 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 Product 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 B button Pressing and holding O button (Sony Only)	Exit
Home button	Gaming Hub homepage (Gaming Hub supported countries) Smart Hub homepage
Pressing and holding 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 keys (123)
Pressing and holding the left and right joysticks simultaneously	Power off (Turning power on is not possible)

The key 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

> left directional button > Settings > All Settings > General & Privacy > Keyboard and Mouse Try Now

This function may not be supported depending on the model.

- Keyboard Settings Try Now

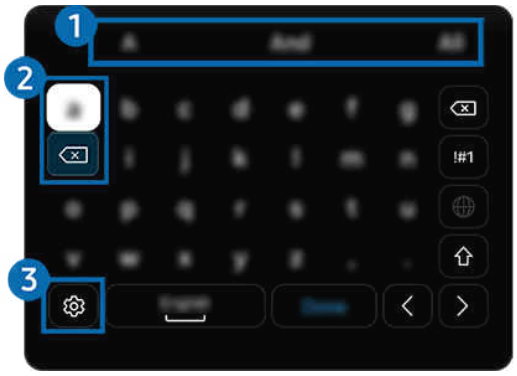
  You can set up the keyboard with the Keyboard Language and Keyboard type functions.

- Mouse Settings Try Now

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

Entering Text using the On-Screen Virtual Keyboard

Use the virtual keyboard to enter text on your Product.



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

1 Recommend 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.

This 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
- Languages and Types

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

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

- Entering text with your voice may not be supported for some functions.
- This function may not be supported depending on the model or geographical area.
- The Samsung Smart Remote may not be supported depending on the model or geographical area.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model or geographical area.

Smart Features

You can enjoy various apps with Smart Hub.

Using Smart Hub

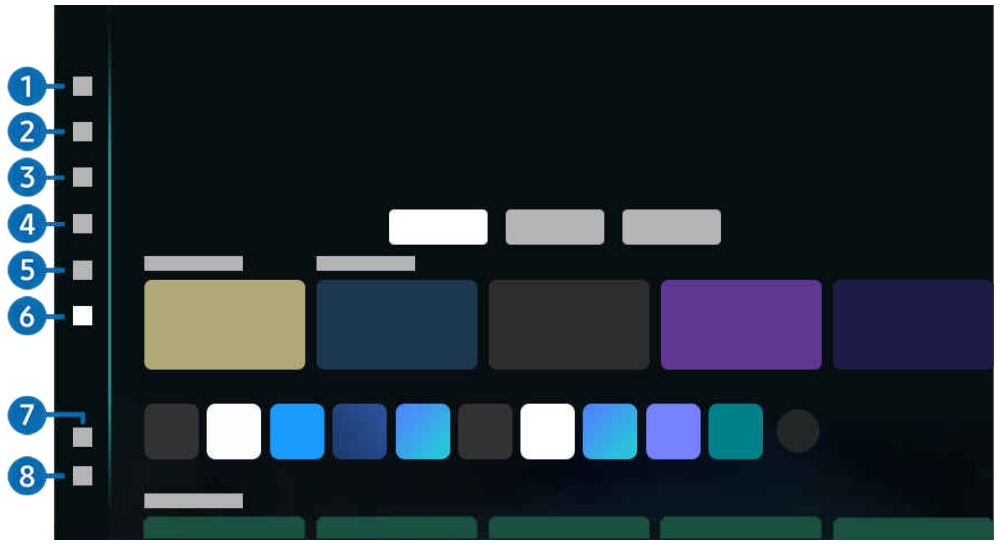
View descriptions of Smart Hub's basic functions.

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

- 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 button.



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

1 Samsung Account

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

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

2 Search

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

To use the Search service, make sure the Product is connected to a network.

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

3 Ambient

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

To return to Product mode from Ambient mode, press > the left directional button > Home. Press the button to turn off the Product.

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

For more information about Ambient mode, refer to 'Using Ambient mode'

Art

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

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

For more information, refer to "About the Art Home screen".

4 Samsung Daily+

Provides useful services, such as home training, remote work and commerce, allowing users to conveniently experience different lifestyles.

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

For more information about Samsung Daily+, refer to "About the Samsung Daily+ Home screen".

5 Game

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

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

6 Home

Install various apps offered by Smart Hub, such as video, music and sports apps, and use the apps from the Product.

- For more information about **Home**, refer to "Using the Home Function".

7 Settings

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

- For more information about **Settings**, refer to "About the Settings Home Screen".

8 Privacy Choices

From your Product, 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**. Try 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** > **Reset Smart Hub**). Try Now

Launching Smart Hub automatically

> left directional button > Settings > All Settings > Advanced Features > Start Screen Options > Start with Smart Hub Home Try Now

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

This function may not be supported depending on the model.

Launching Samsung TV Plus automatically

> left directional button > Settings > All Settings > Advanced Features > Start Screen Options > Autorun Samsung TV Plus Try Now

Enabling Autorun Samsung TV Plus automatically launches Samsung TV Plus when the Product is turned on. Navigate to this option to enable or disable the feature.

This function may not be supported depending on the model.

Automatic casting in Multi View

> left directional button > Settings > All Settings > Advanced Features > Start Screen Options > Autorun Multi View Casting Try 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.

This function may not be supported depending on the model.

Testing Smart Hub connections

> left directional button > Settings > Support > Device Care > Self Diagnosis > Smart Hub Connection Test Try Now

Resetting Smart Hub

> left directional button > Settings > Support > Device Care > Reset Smart Hub Try Now

You can reset the Smart Hub settings. To reset Smart Hub, enter the PIN. You can set the PIN in > left directional button > Settings > All Settings > General & Privacy > Change PIN. Try Now

About the Art Home screen

Learn about the functions available in Art Mode.

> left directional button > Art

This function may not be supported depending on the model.



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

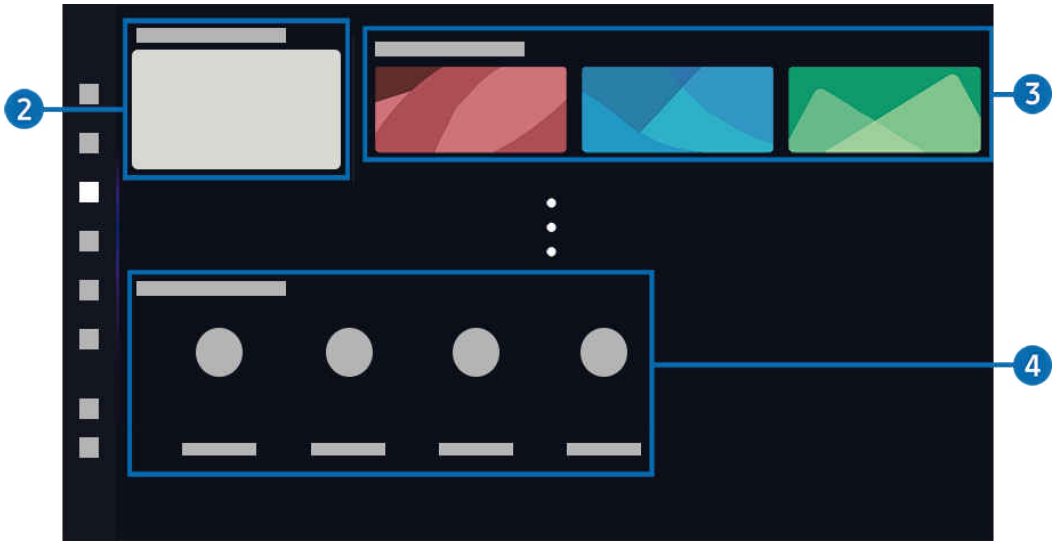
1 List of image categories

Choose from images of different categories shown on the screen and press the Select button to see the content related to the selected image or a full-screen view of the selected image. Select Preview for a full-screen view of the selected image for 30 seconds. If you like an image, you can sign up for Membership.

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

- ♡: Favourites feature disabled / ❤: Favourites feature enabled

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



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

2 Recent

View the last-viewed image again.

3 My Art Store

- My Photos

  Upload and display your photos.

- Favourites

  Manage images saved in Favourite.

  – Display All / Resume Play

    Play images in Favourite as a slideshow.

  – Delete

    Select and delete multiple images in Favourite simultaneously.

- Membership

  Sign up for Membership to gain full access to artwork so you can change the displayed artwork regularly for variety. Follow the on-screen instructions to proceed with the payment.

- Payment Info

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

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

- History

  View the content you recently viewed in Art mode, in order.

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 Options

  – Sleep After

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

- What is Art

  Briefly view information about Art mode, including functions.

Setting the Art Mode

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

Settings may differ by image.

- Changing art work

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

- View Details

  Press the Up button on the remote control to select View Details. View detailed information about the selected image.

- Mount

  Press the Up button on the remote control to select Mount. Customise 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.

- Screen Settings

  Press the Up button on the remote control to select Screen Settings. Customise the Art mode screen settings to suit your preferences.

  – Brightness

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

  – Colour Tone

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

  – Brightness Reset

    Reset the screen brightness to the default value.

Using Art mode with the SmartThings app

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

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

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.

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

- Selecting an image under Art mode.
- Saving photos from a mobile device to the Product: Use the Add picture function to save photos on a mobile device to the Product.
  - Add Picture > select 2 to 3 images > Create Mount: 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 Membership.
- Applying border styles and colors to images.
- ⋮ (more) > Sleep Options
  - Setting the brightness for Art mode.
  - Setting Sleep After: When no motion is detected for the time specified in Art mode, the Product turns off automatically.

Precautions when using Art mode

- Depending on the Auto Power Off function settings, the Product 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). Try Now
- The following functions are disabled in Art mode.
  - > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Sleep Timer Try Now
  - > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Off Timer Try Now
  - > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Screen Saver Try Now

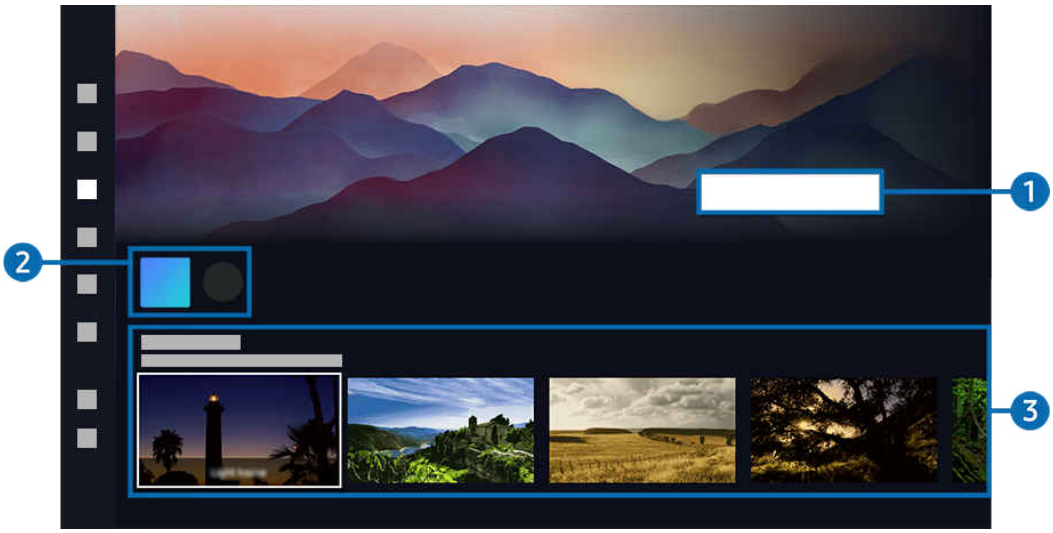
Using Ambient mode

Learn about the functions available in Ambient mode.

> left directional button > Ambient

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

- This function may not be supported depending on the model.
- On some 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 Product 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 3rd Party App

You can download images from the 3rd Party apps and use them in Ambient mode. You can move the app to another location by selecting Edit List located at the end of the list.

- Supported 3rd Party apps may vary, depending on the region.
- Whenever a new 3rd Party apps is released, users can display a wider variety of artwork.

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 Up 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.

- Favourites

  Add or delete specific images in Favourites by pressing the Select button and then the Up directional button on the remote control. To view items that are set as Favourites, navigate to Ambient > Favourites.

  – ♡ Favourites: The item is not set as Favourites

  – ♥ Favourites: The item is set as Favourites

- Edit

  Change various settings according to the user's 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.

  – Colour

    Changes the Colour 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 a 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 colour tone.

  - Brightness

    Adjusts the brightness of the content.

  - Saturation

    Adjusts the saturation of the content.

  - Colour Tone

    Adjusts the colours of the content.

  - Red Tone / Green Tone / Blue Tone

    Adjusts the red, green, blue contrast.

Selecting Content Category

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

- Favourites

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

- 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

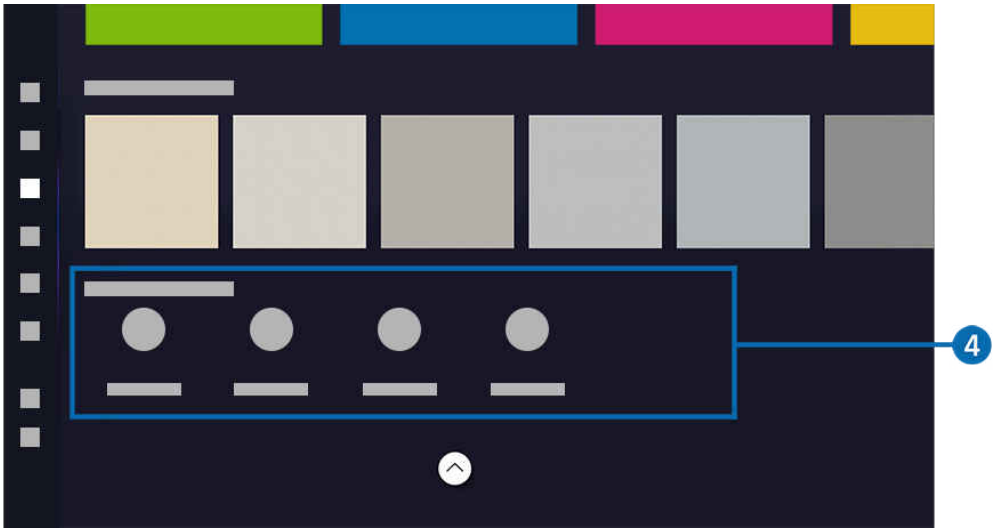
  Allows you to select content such as world famous photos and artwork.

- 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 optimisation 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.



The image on your Product 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 mode 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 Product 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 My Album

  Reset photos saved in My Album.

- What is Ambient?

  Briefly view information about Ambient mode, including functions.

Entering the Product viewing screen from Ambient mode

To access the Product 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 Home.

If the Product is off and the ⏻ button is pressed, the Home screen appears.

About the Samsung Daily+ Home screen

Easily use a wide variety services provided by Samsung Daily+.

> left directional button > Samsung Daily+

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



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

Provides useful services, such as home training, remote work and commerce, allowing users to conveniently experience different lifestyles.

1 Banner

Provides information related to apps provided by Samsung Daily+.

2 Tab

Separates categories based on the nature of the experience provided, allowing users to quickly navigate to the services they want.

Services supported by this feature may differ, depending on the model and region.

- **Featured**

  Provides useful services for daily life, such as video calls, commerce and remote work. This allows users to conveniently experience different lifestyles.

  – **SmartThings**

    It allows the Product to connect and control the detected various devices in the same space. Conveniently control and monitor devices in your home.

    For more information, refer to "Using SmartThings."

  – **Workspace**

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

    For more information, refer to "Using Workspace."

- **Health**

  Provides useful health-related services, such as home training and remote medical treatment.

  – **Workout Tracker**

    Connect to a nearby Galaxy Watch to view saved exercise data from the Product screen.

    For more information on **Workout Tracker**, refer to the user guide provided by Samsung Daily+.

    To connect, make sure the Galaxy smartphone and Galaxy Watch are located in the vicinity of the Product, and Bluetooth is enabled and the same Samsung account is logged in on all the devices.

    This function may not be supported depending on the model.

    This feature is supported on the Galaxy Watch 4 series and subsequent models.

    This feature may not work in some apps or on some service screens.

3 App List

Rearrange, add or delete apps, using the edit function.

4 App Preview

Provides quick access to frequently used features in the app.

Using Samsung Gaming Hub

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

Home > left directional button > Game

This function may not be supported depending on the model and countries.



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

1 My Games

Your recently played games will appear here. Explore the many games Samsung Gaming Hub has to offer.

2 Accessories and Music

- **Controllers**

  Select a Controller to connect to the Product.

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

- **Audio**

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

- **Music Player**

  Manage the music to play while playing a game.

  This function may not be supported depending on the model and countries.

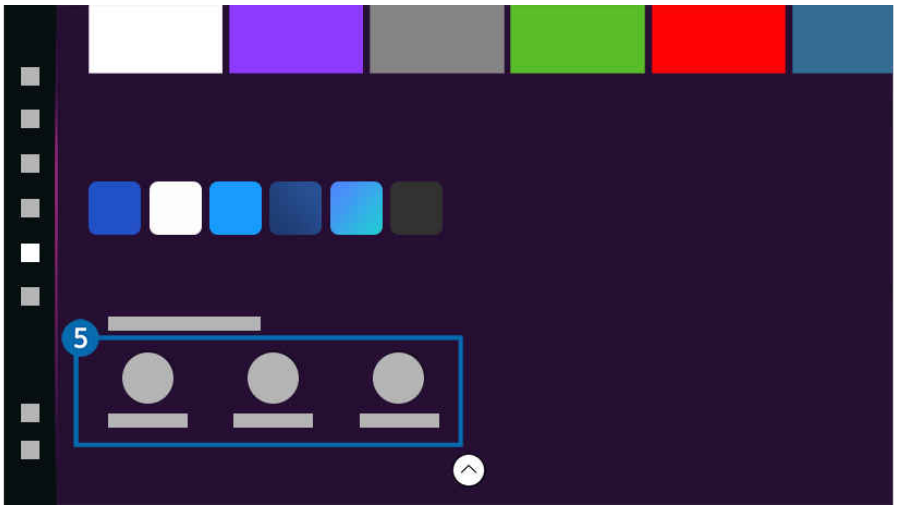
3 Apps and Devices

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 Product 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 Samsung Gaming Hub.

- **Personalisation**

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

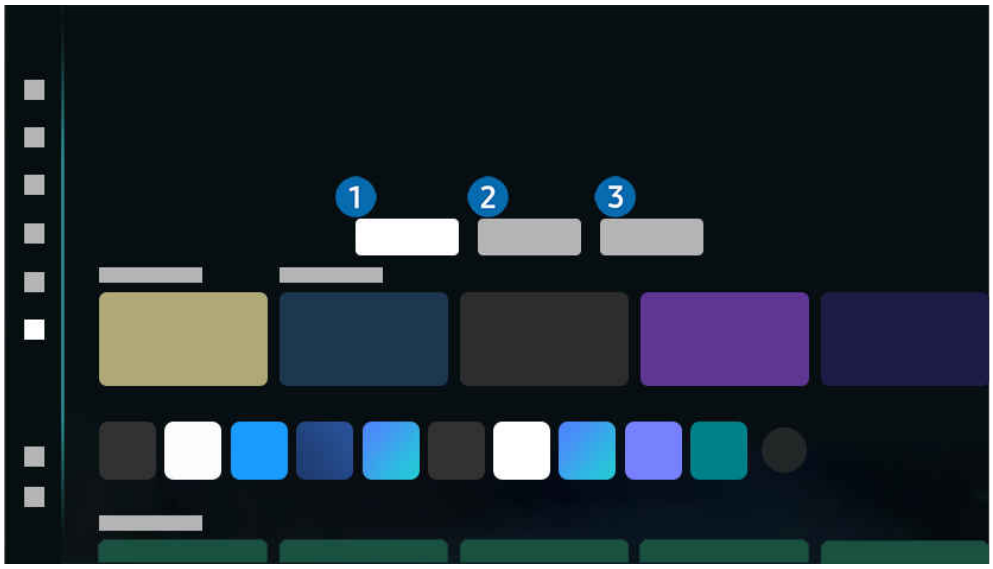
- **Gaming Preference**

  Customise the game content to be displayed depending on the selected gamer type.

Using the Home Function

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

> left directional button > Home



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

1 For You / Discover

The app makes personalised recommendations based on the user's viewing experience. View currently popular content, or add frequently used apps to the Home screen.

For more information about **For You**, refer to "About the For You Home Screen".

2 Live

Watch TV programmes currently on the air. Access the **Guide** screen to check the broadcast schedules and set up scheduled viewing for the programmes you want.

For more information about **Live**, refer to "About the Live Home Screen".

3 Apps

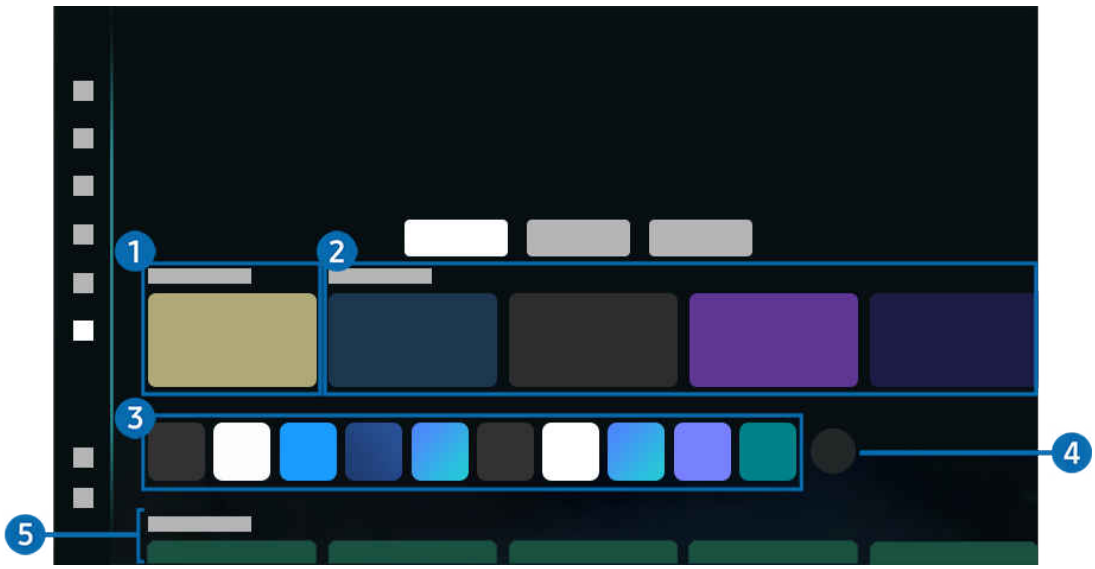
Install a variety of apps offered by Smart Hub, such as video, music, sports and game apps, and use the apps from the Product.

For more information about **Apps**, refer to "About the Apps Home Screen".

About the For You Home Screen

This screen makes personalised recommendations based on the user's viewing experience.

> left directional button > Home > For You



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

1 Now Playing

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

2 Recommended for You / On Now

The name of this function may appear differently depending on the model or geographical area.

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

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

- Recommended for You

  Recommends content that are currently popular in many OTT services.

- On Now

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

3 App List

Add frequently used apps or delete apps on the Home screen, to suit your preferences.

4 Edit List

- **Moving an item on the Home Screen**

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

  Alternatively, move the focus to the app to relocate, press and hold the Select button, and then press the left or right directional button.

- **Removing an item on the Home Screen**

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

  Alternatively, move the focus to the app to delete, press and hold the Select button, and then select Remove.

  > To add a deleted app back to the list or add a downloaded new app to the Home screen, refer to "Managing installed apps".

5 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.
- To enjoy the content from these apps on your Product, the contents must be installed on the Product.
- 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 Product 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.

Media Options

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

This 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.
- Autoplay Sound: When you browse and preview content, you can set the sound to come out or not automatically.

About the Live Home Screen

View TV programmes currently on the air. Access the Guide screen to check the broadcast schedules and set up scheduled viewing for the programmes you want.

> left directional button > Home > Live



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

1 Guide

See the programme schedules of different channels on a single screen. Use Guide to view the daily programme schedule for each broadcaster. You can also find out detailed information about programmes, watch a specific programme.

2 On Now

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

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

About the Apps Home Screen

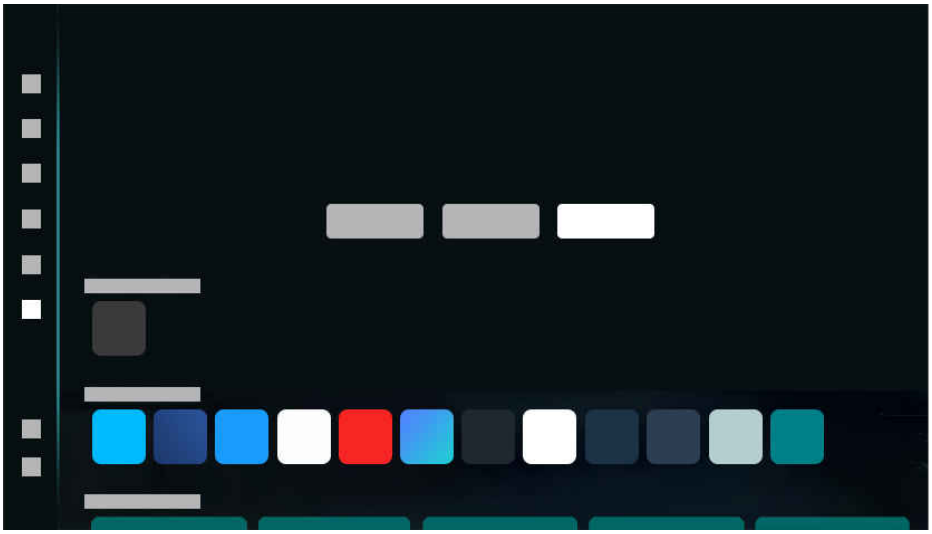
Download and run various apps from Smart Hub.

> left directional button > Home > Apps

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

To use this feature, the Product 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 Product may differ from the image above depending on the model and geographical area.

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 Product'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 Product. 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 Product.

Launching an app

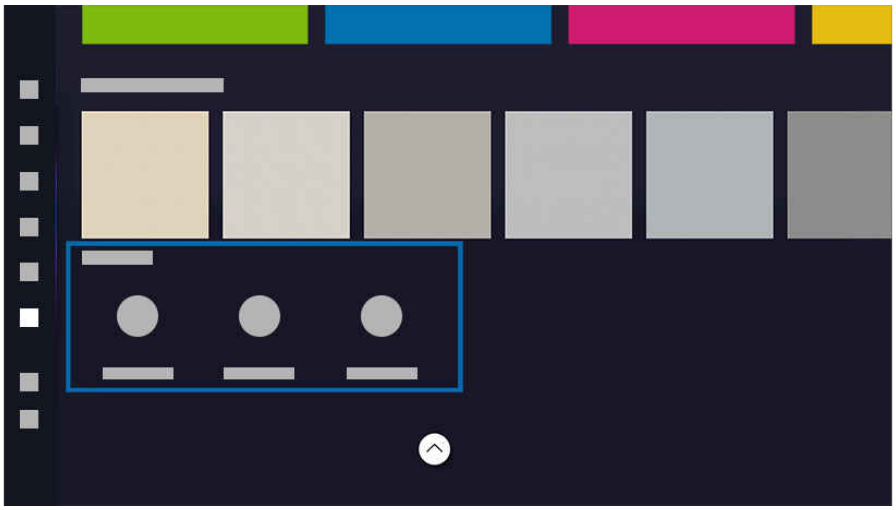
You can run the app desired from Downloaded App.

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

- : 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.

About the Apps Settings

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



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

- App Settings

  Manage installed apps.

  For details, refer to the 'Managing installed apps' section.

- Update All

  Simultaneously updates all apps that can be updated.

- Auto update

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

  Automatic update is enabled only when the Product is connected to the network.

- Copyright

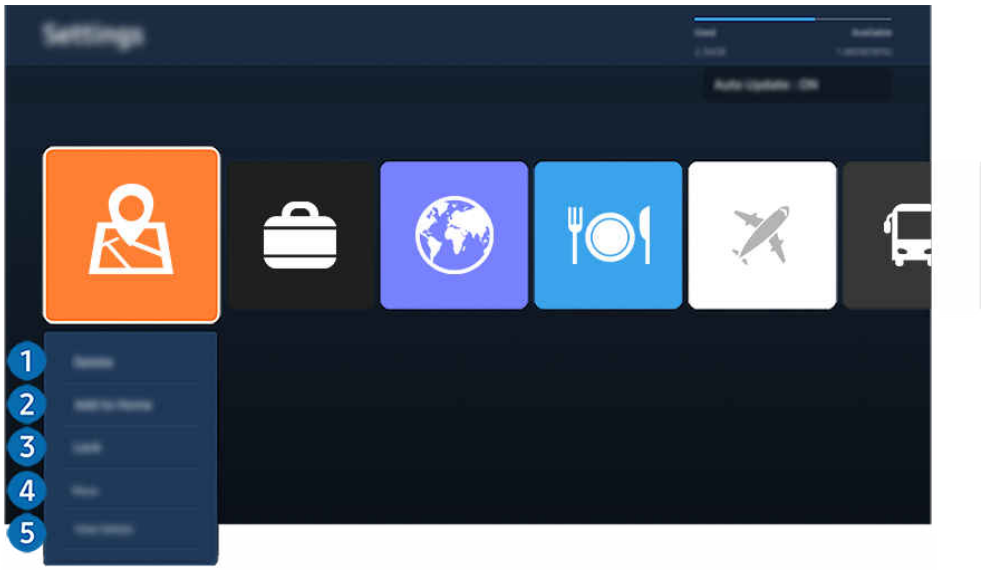
  View the copyright information.

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

Managing installed apps

To manage installed apps, access App Settings.

App Settings can be found at the bottom of the Apps screen. To access App Settings, scroll down to the bottom.



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

1 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.

2 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.

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. You can set the PIN in > left directional button > Settings > All Settings > General & Privacy > Change PIN. Try Now

4 Reinstalling an app

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

Reinstallation starts.

5 Checking the app information details

1. Select the app to check.
2. Select View Details.

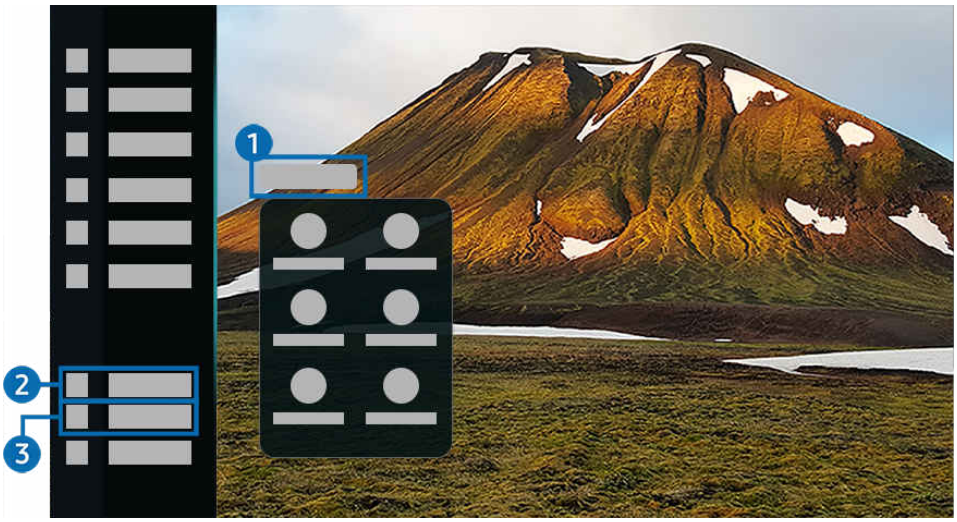
The app information screen appears.

You can rate an app on the View Details screen.

About the Settings Home Screen

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

Home > left directional button > Settings



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

1 Notification

You can view a list of notifications for all events that occur on your Product. A notification appears on the screen when it is time to schedule viewing, schedule recording, or when an event occurs on a registered device.

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

- 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 Product.

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

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.

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

- All Settings

  Displays the Settings menu for configuring specific settings.

- Multi View

  While watching the Product, 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.

- Sound Output

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

- Picture Mode

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

- Sleep Timer

  You can turn off the Product automatically at a specific time. To change the sleep time, press the Select button.

- Bluetooth

  Connect your Product to Bluetooth speakers. This can be done by selecting Bluetooth to automatically search for Bluetooth audio devices.

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

- Brightness

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

- Wi-Fi

  Check your network connection.

- Sound Mode

  You can select a sound mode to optimise your listening experience. To change the sound mode, press the Select button.

- Battery Saving

  Turn on this feature to automatically adjust the screen brightness when the charger is not connected. This minimise battery power consumption.

  Some features may be limited when this feature is in use.

- Brightness Optimisation

  To reduce power consumption, automatically adjust picture brightness according to ambient light levels.

- AI Mode / Intelligent Sound Mode Settings

  In AI Mode, the Product recognises and analyses the surroundings, noise, the content, and your usage patterns to provide the best viewing experience.

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

  For more information, refer to "Using AI Mode".

  The menu name may differ depending on the model.

- Game Mode

  You can set the Game Mode to optimise the Product screen for better gaming performance. To turn Game Mode on or off, press the Select button.

  This Game Mode name can be changed to Adaptive-Sync / FreeSync depending on the attached graphics card.

  This 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.

  When signal cables such as HDMI, DP, USB-C, etc. are connected, the setting value of Game Mode is changed to Off.(Excluding G Series model) If the screen of the product is turned off and on while the external device is connected to the USB-C terminal, it is recognised as newly connected in the product and the setting value of Game Mode can be changed to Off.

- Flex Move Screen

  Use the directional buttons on the remote control to zoom in/out on the screen or change the screen position.

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

  When the screen is zoomed out, the resolution of text and other displayed content may look degraded on some screens.

  This function is also available on the Ark Dial. The Ark Dial is only supplied with the Odyssey Ark.

  On the Ark Dial, turn the wheel left/right to zoom in/out on the screen, or use the directional buttons to change the screen position. (> Wheel Control > Flex Move Screen)

- Zoom to Fill

  Zoom app content to fill the screen. Some content may look cropped after zooming.

  Only available while apps that allow the zoom function are running.

- Eye Saver Mode

  Set to an optimum picture quality suitable for eye relaxation.

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

- Multi Control

  Control nearby Galaxy devices with the mouse and keyboard connected to the product.

  To connect to nearby devices, turn on Multi Control, Wi-Fi and Bluetooth on the devices, and ensure that the devices are connected to the same wireless network and logged in with the same Samsung account.

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

- USB Port Changing Setup

  Set the USB port type to assign smart monitor.

  When automatic change is set, if the source is changed to a PC connected via USB Hub cable or USB-C, the USB port is automatically changed to the PC.

  The USB port can only be assigned to the connected PC or smart monitor.

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

- Subtitle

  You can watch Product broadcasts with subtitles. To activate or deactivate the Subtitle function, press the Select button. To run Accessibility Shortcuts, press the Select button, and then select Accessibility Shortcuts.

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

- Digital Output Audio Format

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

  HDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.

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

- Picture Clarity

  You can optimise pictures that contain a lot of motions. To turn this function on or off, press the Select button.

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

- Colour Tone

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

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

- Power and Energy Saving

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

  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.

- Support

  Displays the Support settings menu.

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

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

4 Edit

From the end of the Settings list, select 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.

> left directional button > Settings > All Settings > Samsung Account Try Now Try Now

- You can view the entire text of the Terms & Policy in > left directional button > Settings > All Settings > Samsung Account > My Account > About Samsung account > Terms and conditions after logging in to your Samsung account.
- Follow the instructions on your Product screen to create or log in to a Samsung account.
- Samsung account can be used on Product, mobile device, and website with one ID.
- This function may not be supported depending on the model.

Signing in to a Samsung account

> left directional button > Settings > All Settings > Samsung Account

Launch the camera on your mobile phone, and scan the QR code to log in to your Samsung account or create a new account.

An alternative way to log in is to select an email address and manually enter your account, or to select a website and access the website from your computer or mobile phone.

Managing your Samsung account

> left directional button > Settings > All Settings > Samsung Account > My Account

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

- 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 Product to log you into your account automatically whenever you turn on the Product, click Stay Signed In.
  - When the Product 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.

- **Subscriptions**

  View subscription-related information.

- **Back up**

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

- **Product Registration**

  You can register the current Product 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).

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

- **Security and Privacy**

  You can read the Privacy Policy for Samsung accounts or change custom service settings.

- **About Samsung account**

  You can view the user agreement and privacy policy.

  > For more information about the terms and conditions, special terms, select **View Details**.

- **Sign out**

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

Using Workspace

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

> left directional button > Samsung Daily+ > Featured > Workspace Try Now

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

- For easy computer use, connect a keyboard and a mouse to your Product in advance.
- This function may not be supported depending on the model.

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

> left directional button > Samsung Daily+ > Featured > Workspace > Windows PC > Screen Sharing

> left directional button > Samsung Daily+ > Featured > Workspace > Mac > Screen Mirroring

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

- 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.
- Connection via Windows OS is available in Windows 10 and later versions only.
- Connection via Mac OS is available in AirPlay.

Using Easy Connection to Screen

> left directional button > Samsung Daily+ > Featured > Workspace > Windows PC > Easy Connection

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 with the same Samsung account for both Product 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

Home > left directional button > Samsung Daily+ > Featured > Workspace > Windows PC > Manual Connection Try Now

Home > left directional button > Samsung Daily+ > Featured > Workspace > Mac > Remote Login Try Now

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 Manage User Profiles, and then press the Select button. When a pop-up 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:

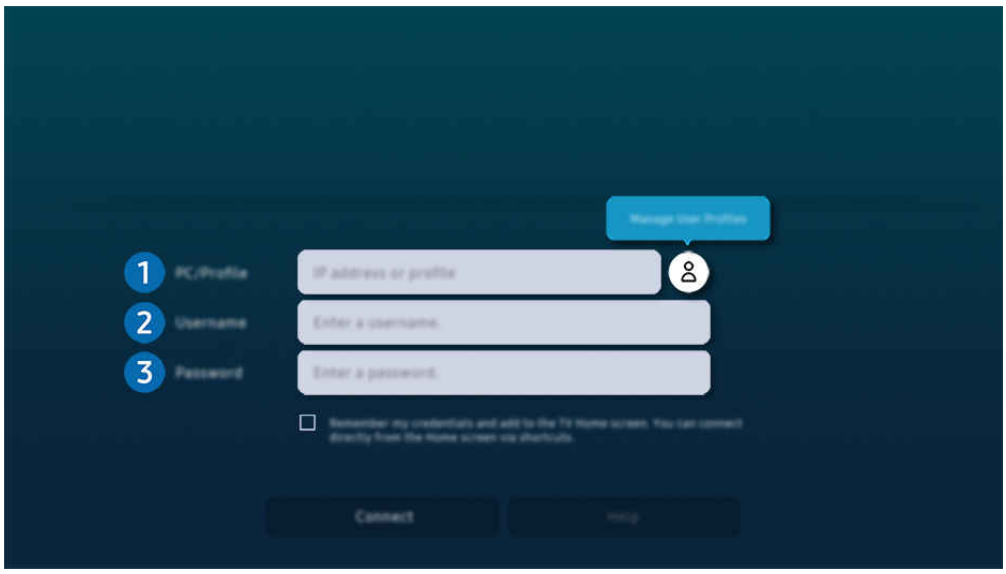
     1) Right-click the **My PC** icon on Desktop or Windows Explorer and then click **Properties**.
     2) Click **Remote Desktop** and select **Activate Remote Desktop**.

   - Mac OS:

     1) Select **Menu** > **System** > **Preferences** and then click **Sharing**.
     2) Select the **Screen Sharing** and **Remote Login** check box.
     3) 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.

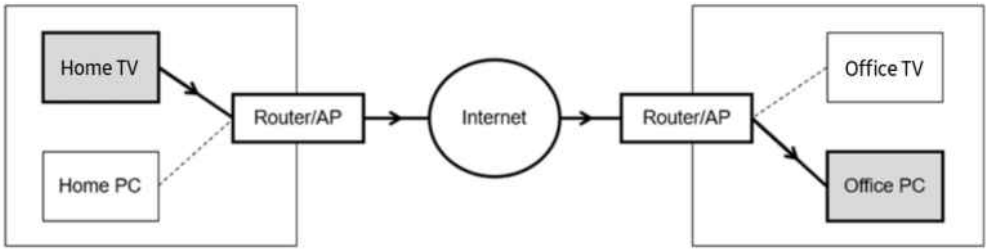


The image on your Product may differ from the image above depending on the model and geographical area.

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 Product 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.

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.

Controlling your Galaxy device with the keyboard and mouse

Home > left directional button > Samsung Daily+ > Featured > Workspace > Multi Control

Control nearby Galaxy devices with the mouse and keyboard connected to the product.

- To connect to nearby devices, turn on Multi Control, Wi-Fi and Bluetooth on the devices, and ensure that the devices are connected to the same wireless network and logged in with the same Samsung account.
- This function may not be supported depending on the model or geographical area.

Using Samsung DeX

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

Follow the on-screen instructions to connect Samsung DeX. Some models may not be searched when connecting the Product 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.

- 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.

- 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 > left directional button > Samsung Daily+ > Featured > 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 Product.

  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.
- 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 TV Access

By mirroring, you can watch TV from the Product screen.

Select and mirror the desired TV to view the TV content from the Product screen.

> left directional button > Connected Devices > TV Access

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

This function may not be supported depending on the model.

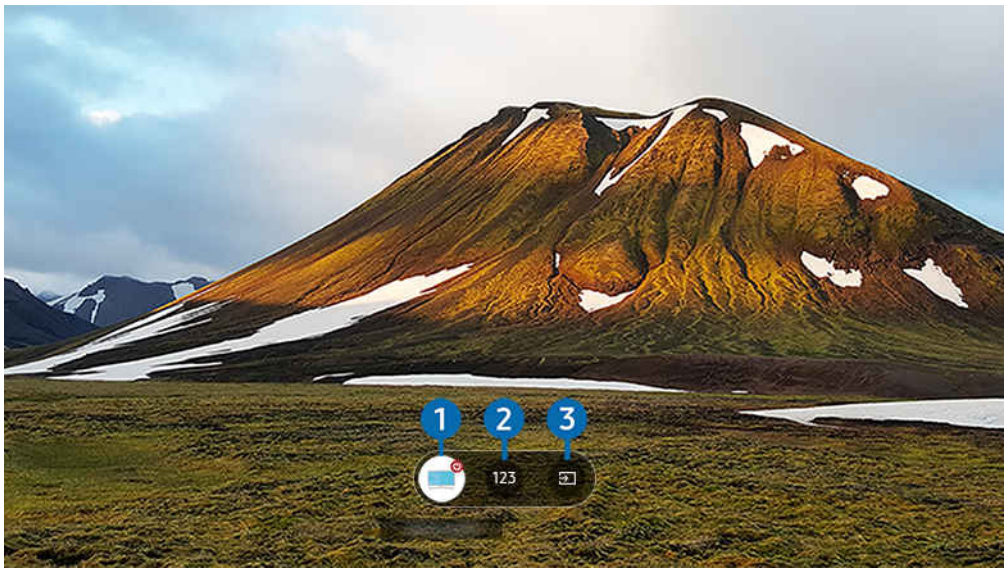
Connecting to a TV

Select TV Access to display a list of available TVs to connect to. Select and connect the desired TV to the Product.

After a connection is established, the TV appears in the Connected Devices list of the Product. To subsequently connect to the same TV, select the TV from the Connected Devices list.

To disconnect from the TV, press the or button on the remote control.

Controlling the connected TV from the Product



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

To manipulate the screen while playing content, press the up directional button on the remote control.

1. Power: Turn on or off the connected TV. (Panel on/off only)

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

2. Numeric keypad: Press a channel number to change the connected TV channel. You can select the channel up/down key.

3. Source: Change the input source connected to the TV.

Using the User guide

Control and read the manual embedded in your Product.

Launching the User guide

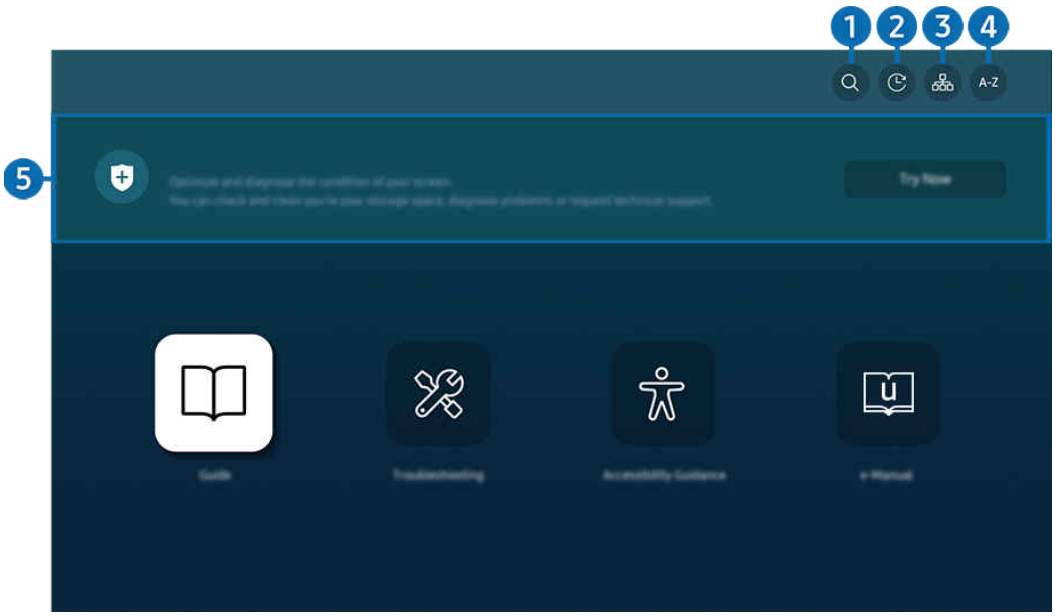
Home > left directional button > Settings > Support > Tips and User Guides > Open User guide

You can view the embedded User guide that contains information about your Product's key features.

You can download a copy of the User guide from Samsung's website to view or print on your PC or mobile device (https://www.samsung.com).

Some menu screens cannot be accessed from the User guide.

Using the buttons in the User guide



The image on your Product 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 (Site Map)

It displays the lists for each item in User guide.

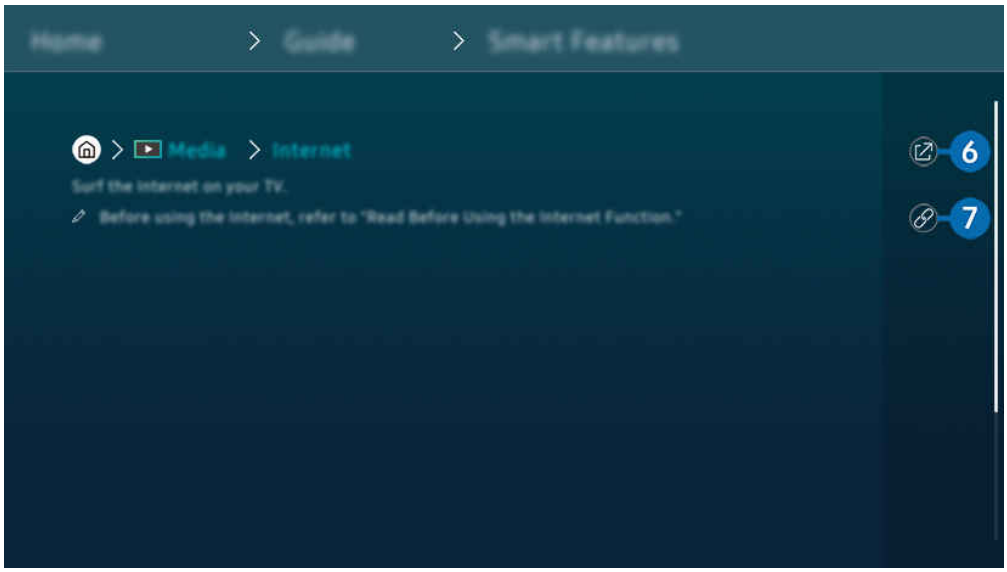
4 A-Z (Index)

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

Optimise and diagnose the condition of your Product. 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 Product 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 User guide page immediately.

Using the Internet

Surf the Internet on your Product.

> left directional button > Home > Apps > 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.

- This function may not be supported depending on the model or geographical area.
- 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 (> left directional button > Home > Apps > 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 Product to connect and control the detected various devices in the same space.

> left directional button > Connected Devices > SmartThings Try Now Try Now

> left directional button > Samsung Daily+ > Featured > SmartThings Try Now Try Now

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.

Power consumption may increase as SmartThings will operate when the Product is a low power or standby mode.



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

1 Location or Devices near Product

- Place

  Displays all places connected via the SmartThings app.

- *Devices near Smart Monitor

  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.

  *: The menu name may differ depending on the model.

2 Map View

you can check the status of registered devices.

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.

3 Favourite

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

4 Device

View devices connected to SmartThings, and use the remote control to select and control any of the connected devices.

List of devices compatible with the Product

Type	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://partners.smartthings.com/supported-devices. SmartThings devices can also be controlled from the mobile app.

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

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

5 Life

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

Only Life services supported by the Product are displayed.

6 Routines

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

7 Add Device

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

8 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.

9 Settings

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

SmartThings Quick access

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

Home > left directional button > Connected Devices

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.

Home > left directional button > Connected Devices > SmartThings > Settings > SmartThings Hub

- This feature may require a SmartThings Dongle for Zigbee or Thread connectivity, depending on the model.
- Make sure to log in to the same Samsung account on your Product as your mobile SmartThings app.
- 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 Product

1. When there is a device detected near the Product, a registration pop-up appears on the Product screen.
   - When there is no device detected, the pop-up may not appear.
   - 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 Product. 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 Home > left directional button > Connected Devices > SmartThings > Add Device.
   - A device connected via an HDMI cable or USB camera device is automatically registered.
   - Models with a built-in camera do not support the connection of an external USB camera.
   - Home > left directional button > Connected Devices > SmartThings, you can see available options for each device. Try Now

     Supportable options may differ depending on the device.

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

Use the mobile SmartThings app to register your Product, 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 Product, to receive a notification of the doorbell video and speak with the visitor while watching the Product.

- 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 Product without purchasing a separate IoT sensor.

Home > left directional button > Connected Devices > SmartThings > Settings > Sensors

- Each sensor can be activated with user consent.
- Each sensor may not be supported depending on the model.

Control SmartThings with Bixby Try Now

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

- 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 Product remote control functionality, such as On/Off, Channel, Volume, and four directional keys. You can also use Search, Apps, Mobile Cam, and other functions from the mobile app.

Routines in the mobile SmartThings app allows you to automatically run apps installed on the Product.

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

Controlling a display device from the SmartThings app in Galaxy Watch

From the SmartThings app in Galaxy Watch, use the remote-control functions to turn on/off the Product, change channels, adjust the volume or use the directional buttons. If you switch to Pointer mode while using a remote-control function, it is possible to control the Product with simple hand gestures.

- Pointer mode may not be supported in some apps or external devices.
- Pointer mode may not be supported, depending on the Galaxy Watch model and the Wear OS version.
- This function may not be supported depending on the model or geographical area.

Playing pictures/video/music

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

Home > left directional button > Connected Devices > Connected Device Try Now

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

- You cannot play media content if the content or the storage device is not supported by the Product. 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.

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

- Options

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

  - You can delete only the recorded content. To delete content, change the Filter By option to Recorded.
  - Recorded may not be supported depending on the geographical area.

Playing multimedia content on a PC or mobile device

1. Select a device with media content in > left directional button > Connected Devices > Sources. The media content list in the device appears.
2. Select a media content item from the list.

The selected content is played.

The content may not be played depending on the encoding method or file format. Furthermore, several functions may be restricted.

Content on devices connected to the Product 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. Select the USB device in the > left directional button > Connected Devices.
3. Select a content item to play from the list.

The selected content is played.

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

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

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

The selected media is played through the Product 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 Product 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.

- 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.

  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 option or press the button.

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

  – Slow Rewind or Slow Forward: Allows you to play a video slowly backward or forward by selecting the or option. There are 3 playback speeds. To change the playback speed, press the option repeatedly. To return to normal speed, select the option or press the button.

- 360 Mode

  Provides a 360-degree view for videos and photos.

  This function may not be supported depending on the file format.

  Video files using the mjpeg codec do not support a 360-degree view.

  When a video or photo does not support a 360-degree view, applying 360 rotation to it may cause the screen to look distorted.

  Videos may be interrupted if 360 rotation is applied during double speed playback.

  Videos that support a 360-degree view may be interrupted if 360 rotation is simultaneously applied with other functions during playback.

  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:

  – General

  – Dynamic

  – 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.

  The video's viewing angle is manually adjusted in General mode.

  This function may not be supported depending on the file format.

  Video files that use the mjpeg codec do not support a 360-degree view.

  When a video does not support a 360-degree view, applying 360 rotation to it may cause the screen to look distorted.

  Videos may be interrupted if 360 rotation is applied during double speed playback.

  Videos that support a 360-degree view may be interrupted if 360 rotation is simultaneously applied with other functions during playback.

  This 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.

- Fit to Screen

  Fits a photo to the screen.

- Rotate left / Rotate right

  Rotates a photo left or right.

- Zoom

  Zooms in a photo.

- Background Music

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

  This function is available after enabling the Background Music option.

- Options

  The available options may differ with the model and content.

Function	Description
Slideshow Speed	Sets the slideshow speed. If there is only one image file in the USB device, the slide show is not played.
Slideshow Effect	Applies transition effects to the slide show. If there is only one image file in the USB device, the slide show is not played.
Background Music	Plays background music as you set in the pop-up window while the Product displays photos. The music files must be saved in the same USB device as the photo files. To pause the background music, select Background Music on the playback screen bottom.
Subtitles	You can set the detailed subtitle options, such as the language, sync, size, and colour. If subtitles are not displayed correctly, check the encoding setting.
Rotate	Rotates the video.
Audio Language	Changes the audio language. This function is only available if the video supports multi-track sound.
Information	Displays detailed information about the current multimedia content.

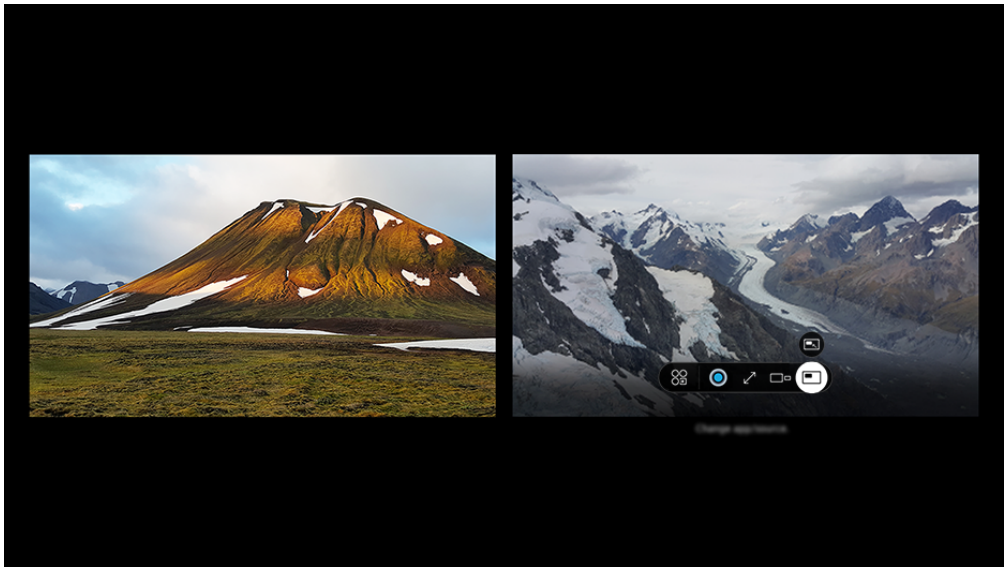
Using Multi View

You can view multiple content items through Multi View.

> left directional button > Settings > Multi View Try Now

- This function may not be supported depending on the model.
- Game Mode, VRR, and Cloud Games are not supported while in Multi View mode.
- When viewing multiple small screens by using Multi View, the resolutions of some screens may appear low.
- Only one external input (including HDMI, DisplayPort, Type-C) and one mirrored device screen can be displayed.
- Note that Odyssey Ark models support displaying up to four external inputs in Multi View mode.
- While in Multi View mode, refresh rates of up to 120 Hz are supported for external inputs. Some models support up to 60 Hz.

To start Multi View, navigate to > left directional button > Settings > 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 button on the remote control.



- The image on your Product 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.

- App/Source

  You can change the content for the selected window.

- 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.

- Maximise

  View the selected screen in full screen mode.

- Return to Multi View

  Reduce the maximized screen to the original size, and return to the Multi View.

- Screen Size

  Selects the desired size of Multi View.

- Screen Position

  Selects a position of the Multi View screen. The Screen Position menu only appears when the product is in portrait mode.

- 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.

  Double Audio is not available in some apps.

- Bluetooth Speaker

  You can hear the sound by connecting the Bluetooth speaker.

- Full Screen

  Multi View is ended and then the full screen appears.

- Delete

  You can delete the selected screen.

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

- This function can be started or stopped by pressing the button on the Samsung Smart Remote.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model or geographical area.
- This function operates only by 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.
- When an external device that connects to a receiver or Soundbar is used in Multi View, sound outputs from the Product speaker, not from the receiver or Soundbar.

Using Samsung Vision AI Companion

Samsung Vision AI Companion offered by intelligent chatbot service that comes with Samsung AI.

Whenever you have a question, press the button and ask the question. Ask any questions you might have verbally as if you were speaking to another person, and get content and service recommendations relevant to subject matter. Press the button to explore key AI features.

Samsung Vision AI Companion is capable of providing a wide range of answers depending on the user environment and questions asked. The services provided depend on execution conditions.

Before use

- To use this service, you must agree to the Terms of Use for Smart Hub and Viewing History Information Services. You cannot use this service if you do not agree to the Terms of Use.
- To use this feature, make sure your product is connected to a network.
- You must be logged in to your Samsung account to use this function.

Caution

- Depending on the software version, the button may not open the Samsung Vision AI Companion function.
- This service can't be accessed if the age requirements are not met.
- If age restriction for content is enabled on your Product, you will need to enter a PIN to use this service.
- If you change the service language, access to some services or information may be limited.
- Types of content searched and recommended may vary by content provider.
- This function may not be supported depending on the model or geographical area.
- This service provides AI-generated content. There may be an error, so please check again.
- Provided answers may not include content from some apps.
- The name of this function may appear differently depending on the model or geographical area.

Using Samsung Vision AI Companion While Viewing

When watching Live TV through Samsung TV Plus or a set-top box, press the button to receive related information and content recommendations.

- Broadcast service provider setting or registration is required to use this function.
- Recommendations based on viewed content are provided. Recommendations may vary by service provider.

Other Uses of Samsung Vision AI Companion

When using services other than broadcasts, press the button to explore various AI features. You can access a variety of AI apps or services.

- Available features may differ depending on the model or geographical area.

Using the Service Through Bixby

When using the Bixby services through speech recognition, navigate to Enhanced AI Features (> Bixby Settings > Enhanced AI Features) and set it up so that Samsung Vision AI Companion provides answers. After making the setting, press the button or say the command "**Hi, Bixby**" to open Bixby and use the Samsung Vision AI Companion service.

- If Samsung Vision AI Companion is unable to answer a question, Bixby can intervene and answer the question.
- A registration or purchase may be required to access recommended content.
- A wide range of answers is possible depending on the question asked. The types and number of recommended content and service options can vary. When a provided answer is not what you are looking for, you may get a more accurate answer if you ask a more specific question.

Using the Settings Features

On the right side of the Samsung Vision AI Companion main service screen, select the settings menu to view the service-setting-related features.

- Spoken Responses

  Sets Samsung Vision AI Companion to provide responses in speech.

- User Guide

  Provides a list of the main features of Samsung Vision AI Companion along with helpful information.

- Privacy Notice

  Shows the history of user acknowledgment required for using the Samsung Vision AI Companion service.

Advanced Features

Use useful features available on your Samsung Product.

Using Football Mode

Create a more immersive viewer experience when watching football matches by automatically optimising picture quality.

> left directional button > Settings > All Settings > Advanced Features > AI Football Mode Pro / AI Football Mode

Some screen setting features may not be available on the Smart Hub Home screen.

This feature automatically provides optimum picture quality for watching football matches.

Before use

To use this feature, make sure the latest software version is installed.

If a soundbar is connected, only picture optimisation works, and the sound setting automatically switches to the soundbar's sound field mode.

To use this feature through Bixby, you must register and log in to a Samsung Account and agree to the collection and use of personal information.

Caution

This function may not be supported depending on the model.

Service performance and operation may differ, depending on the network environment.

This feature is automatically deactivated when AI Mode, EyeComfort Mode, or Eye Care mode is activated.

- AI Football Mode Pro / AI Football Mode

  Automatically optimises picture quality through real-time AI analysis. This feature automatically adjusts colours and brightness to enhance the immersive viewer experience when watching football matches.

  It is possible to set it up so that the AI Football Mode Pro feature automatically runs by recognising football matches. If you select Auto, the content you are watching is analysed in real time and the picture quality is automatically adjusted.

  The menu name may differ depending on the model.

Using AI Mode

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

Home > left directional button > Settings > All Settings > Advanced Features > AI Mode Settings > AI Mode Try Now

In AI Mode, the Product recognises and analyses 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.

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

- Adaptive Picture Try Now
  - AI Optimised

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

    AI recognises the type of content currently being viewed (e.g., Sports Games, Movies, General) and automatically switches to the customised picture quality settings.

    Using AI Customisation Mode Settings, users can customise the picture quality for each content type.

    Some models, modes or apps may not support this feature.

    To use AI Customisation, first you need to set picture quality preferences for each content type.(Home > left directional button > Settings > All Settings > Advanced Features > AI Mode Settings > AI Customisation Mode Settings)

    Settings that can be adjusted by AI Customisation may differ, depending on the region.

- AI Customisation Mode Settings

  This feature is available when Adaptive Picture is set to AI Optimised.

  – Detail Settings

    Customise specific settings, such as Brightness, Contrast, Colour and Colour Tone, for each content type (e.g., Sports Games, Movies, General).

    Available setting items under Detail Settings may differ, depending on the region.

- Adaptive Sound Settings

  With AI-based content recognition, scenes such as sports events and films are automatically customised to your preferred picture settings.

  – Active Voice Amplifier / Active Voice Amplifier Pro Try Now

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

    This function is available only when the microphone switch of the Product is active and the sound output is set to Product Speaker, or the Samsung Soundbar interlinked with Adaptive Picture function is connected. The location of the microphone switch may vary depending on the model or geographical area.

    While using this function, the Product does not save the data.

    This function may not be supported by some modes or apps (e.g., Game Mode).

– Adaptive Sound Pro Try Now

Provides optimised 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 Product is active and the sound output is set to Product Speaker.
- This function may not be supported by some modes or apps (e.g., Game Mode, and apps that control the Product sound).
- While using this function, the Product does not save the data.
- This function may not be supported depending on the model.
- The name of this function may appear differently depending on the model.

– Adaptive Volume Try Now

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

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

Using Voice Assistants

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

Select the Voice Assistant

Home > left directional button > Settings > All Settings > Advanced Features > Voice > Voice Assistant Try Now

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

- To use this function, the Product must be connected to the network.
- This function may not be supported depending on the model.
- 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
  - To use the Voice Assistant, follow the instructions on the Product screen to enable the selected Voice Assistant.
  - To change the settings for Voice Assistant, run the Settings menu under each Voice Assistant (Home > left directional button > Settings > All Settings > Advanced Features > Voice > Voice Assistant). Try Now
  - 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 Bixby

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

- This function is available only if Voice Assistant is set to Bixby. (> left directional button > Settings > All Settings > Advanced Features > Voice > Voice Assistant) Try Now
- Bixby is available only when the Product 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 Product 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 Product screen is activated in Listen mode. Continue speaking.

- For best results, you need to be within 10 feet (3-4 m) of your Product. 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.

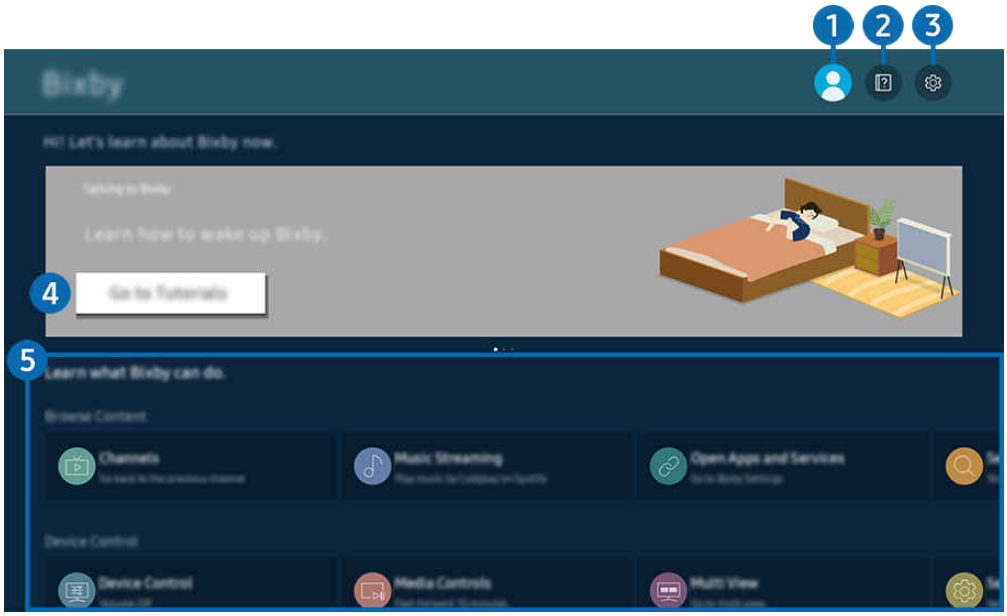
For details on how to use Bixby, press the button once:

- When you press the button, the icon appears at the bottom right of the screen. Press the Select button to go to the Discover Bixby screen.



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

Learning about the Explore Bixby Screen



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

1 Account

Log out after going to the Samsung Account screen.

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

2 Tutorials

The pop-up window on using Bixby appears.

3 Settings

You can change the settings for using Bixby.

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

These functions can be set in Bixby Settings (> left directional button > Settings > All Settings > Advanced Features > Voice > Bixby Settings). Try Now

- Voice Wake-up

  Configure settings on how to wake up Bixby with your voice. You can configure the following settings: Hands-free wake-up, Voice registration,Wake-up phrase, Talk to Bixby without wake-up, and Wake-up Sensitivity. (> Bixby Settings > Voice Wake-Up)

  From Voice Wake-Up, set Hands-free wake-up to operate at all times, and say "**Hi, Bixby**" when the Product is off. You can use Now brief which provides a variety of daily information, even when you are not watching Product.

  - For more information about **Now brief**, refer to "Using Now brief."
  - The **Voice 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 Product is active.
  - The microphone on Product 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 Product. If Bixby does not answer, refer to "I spoke "Hi, Bixby/Alexa" but Bixby/Alexa does not answer." in "Troubleshooting".

- Language and voice style

  You can change Bixby's language and voice style.

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

- Bixby Feedback

  Play a sound when Bixby starts and stops listening.

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

- Enhanced AI Features

  Connect to Samsung Vision AI Companion, and obtain more advanced AI answers and related content recommendations.

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

- Privacy

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

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

- About Bixby

  Displays the detailed terms and conditions.

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

4 Recommended commands

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

If you do not want to see the recommended commands, set Voice Hint to Off (> left directional button > Settings > All Settings > Advanced Features > Voice > Voice Hint). Try 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 Product 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 Product is connected to the network.
- Even if the Product 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 Products 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 > General & Privacy > Broadcasting > Service Provider Info & Settings. Try Now

  If the settings for the service provider are not configured yet, configure them in > left directional button > Settings > All Settings > General & Privacy > Factory data reset. Try 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 (Product sound and ambient noise).

Using Game Mode

You can set the Game Mode to optimise the Product screen for better gaming performance.

Playing games on an optimised screen

Home > left directional button > Settings > Game > Game Mode Try Now

Home > left directional button > Settings > All Settings > Advanced Features > Game Mode Settings > Game Mode Try Now

You can set the Game Mode to optimise the Product 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 (Home > left directional button > Settings > Game Mode).

- This function may not be supported depending on the model.
- The screen may shake somewhat.
- When you press and hold the 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.
- When 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

> left directional button > Settings > All Settings > Advanced Features > Game Mode Settings > Game Mode Try Now

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

- Response Time Try Now

  Accelerate the panel response rate for more vivid and natural video.

  This function may not be supported depending on the model.

  If the response time is set to Faster or Extreme, the screen may appear distorted when video is played. If this occurs, change the response time to Standard.

- Virtual Aim Point Try Now

  You can see the virtual aim point at the center of the screen.

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

- Minimap Auto Detection Try Now

  Automatically finds and zooms in on the minimap by analysing the screen when using the Minimap Zoom feature.

  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 optimised for games.

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

- Core Lighting

  Turn the LED lighting at the front and back of your product on or off.

  This function may not be supported depending on the model.

- **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 colours and contrast in brighter scenes.

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

- **AI Sound Booster**

  AI Sound Booster delivers three-dimensional sound with maximised directionality through real-time AI analysis. It vividly expresses various sound effects for more immersive gameplay.

  This function may not be supported depending on the model.

- **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 optimise 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.

    This function may not be supported depending on the model.

- **Game Picture Expert** Try Now

  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 maximise 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.

    When HDR sources are input in Game Mode, this menu is activated.

    Game HDR entry path may be different in some models. (> (left directional button) > **Settings** > **All Settings** > **Game** > **Game HDR**) Try Now

- **Autorun Game Bar**

  Set whether or not to automatically launch the Game Bar, by enabling/disabling game mode or switching between external inputs.

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

- **Display Mode in Portrait Screen**

  Set the display mode to use on the portrait screen.

  This function may not be supported depending on the model.

  If the screen is not displayed in the specified orientation, change the display orientation from the PC.

Using the Game Bar

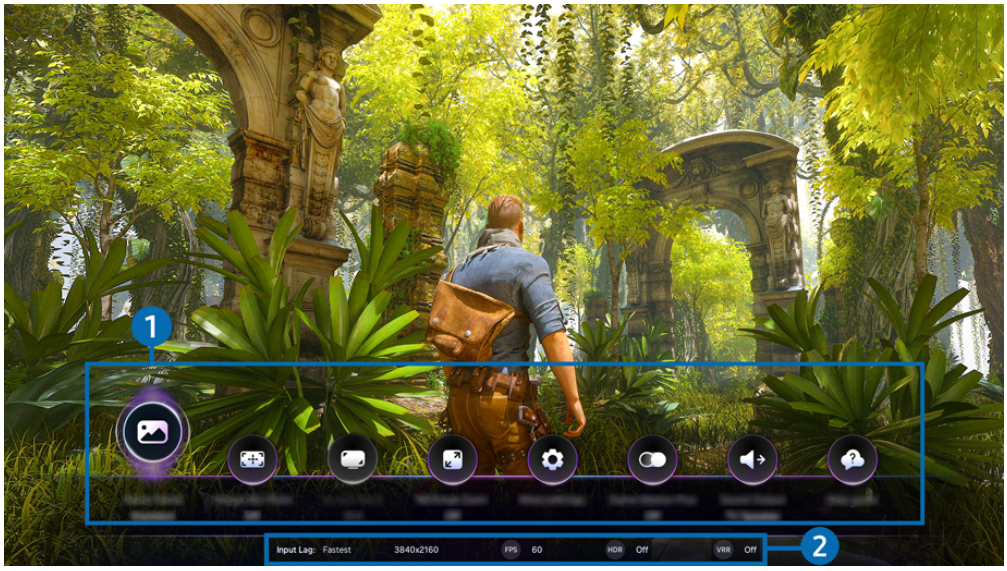
Control the Game Settings Monitoring and Game Enhancer Settings easily by using the Game Bar.

This function may not be supported depending on the model.

Starting the Game Bar

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

Learning about the Game Bar



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

1 Game Bar menu

- Game Genre

  Specify the Game Picture Mode according to the current game genre. To customise the picture quality, select Custom 1 or Custom 2.

- Virtual Aim Point

  You can see the virtual aim point on the screen.

- Screen Ratio

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

  Supported aspect ratios may differ depending on the model.

  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.

  When configuring the Portrait Mode settings (Game > Display Mode in Portrait Screen) after turning the screen to portrait mode, it is possible change the aspect ratio to either 9:16 (previous setting) or 9:32. This function may not be supported depending on the model.

- 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
21:9	2560 x 1080 (60 Hz) 2560 x 1080 (120 Hz) 2560 x 1080 (165 Hz) *3840 x 1600 (60 Hz)
32:9	3840 x 1080 (60 Hz) 3840 x 1080 (120 Hz)

*: This function is only supported when the PC's VRR function is off.

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

When the screen is in portrait orientation, this feature works when Landscape Mode (Game > Display Mode in Portrait Screen) is set to 21:9 or 32:9. Minimap Zoom is not supported when Portrait Mode is set to 9:16, 9:21 or 9:32. This feature may not be supported, depending on the model.

- Response Time

  Accelerate the panel response rate for more vivid and natural video.

  When you increase the values for Judder Reduction in Game Motion Plus Settings (Game Bar > More settings > Game Motion Plus Settings), the input lag increases.

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

- More settings

  Configure specific settings to suit your preferences.

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

- Sound Output

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

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

- Help guide

  View details on how to use each menu item.

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

2 Current status display

- 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.

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

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.

When Game Mode is set to On or Auto, the FreeSync (VRR) function is activated.

This function may not be supported depending on the model.

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**.

- Check if the game supports Ultra Wide resolution (21:9).
- If the Product is connected to a computer and Game Mode is set to either ON or Auto, the wide screen (21:9) is activated from the Game Bar.
- This function may not be supported depending on the model and geographical area.
- If you set the resolution on your PC for the first time, you can change the Screen Ratio through the Game Bar on your Product.

Game Bar Screen Ratio	Resolution set in PC
21:9	3840 x 1600 (60 Hz) *3840 x 1600 (120 Hz) *3840 x 1600 (240 Hz) *2560 x 1080 (60 Hz) *2560 x 1080 (120 Hz) *2560 x 1080 (240 Hz)

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

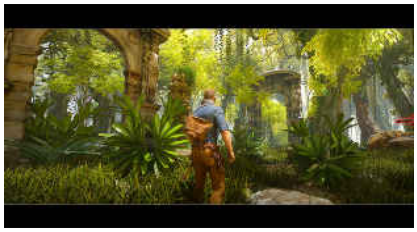
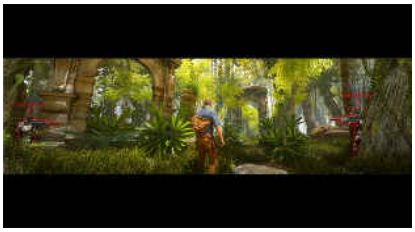
At the Super Ultra Wide resolution, use the ∧/∨ (channel) buttons to move the screen position to the top, centre, or bottom.

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.

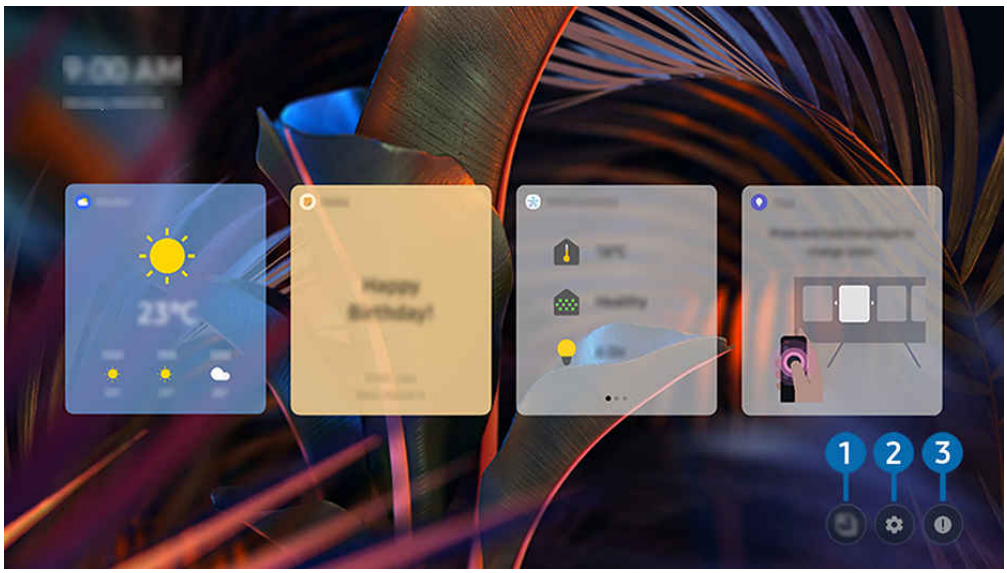
  This function may not be supported depending on the model or geographical area.

16:9	21:9	32:9
		

Using Now brief

Even when the Product is off, easily access useful daily information through the smart screen, which switches on when a user is detected or when it is activated by voice.

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



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

1 Full Screen Mode / Content Mode

Change the screen mode for Now brief.

2 Now brief Settings

- Content: Display only specific Content on the screen.
- Wallpapers: Set the Wallpapers to the theme you prefer.
- Settings: Display the settings menu to configure specific settings for Now brief.

3 Tips

Browse through tips for using Now brief. Click the Try button to try out the features available in Now brief.

Starting Bixby with voice

> left directional button > Settings > All Settings > Advanced Features > Now brief > Enable with Voice

> left directional button > Settings > All Settings > Advanced Features > Voice > Hands-free wake-up > Always

When the Product is off, say "**Hi, Bixby**." You can use Now brief which provides a variety of daily information, even when you are not watching Product.

- When the distance to the Product is within 3 to 4 m, optimal performance is provided. If Bixby does not answer, refer to "I spoke "Hi, Bixby/Alexa" but Bixby/Alexa does not answer." in "Troubleshooting".
- If you do not wish to use the Now brief screen, access the Now brief Settings menu from the Now brief screen, and turn off Wallpapers or Content.

Starting Now brief through user detection

> left directional button > Settings > All Settings > Advanced Features > Now brief > Enable with User Detection

Turn on Now brief to automatically display the Now brief screen if a user is detected in the vicinity, even when the Product is off.

Now brief can be turned on in > left directional button > Settings > All Settings > Advanced Features > Now brief Try Now

- This function may not be supported depending on the model.
- Users are detected by sensing sound and movement around the Product.
- Users may not be detected properly, depending on the environment in which the Product is used. If this happens, say "Hi, Bixby" to activate Bixby and then activate Now brief. (> Bixby Settings > Voice Wake-Up > Hands-free wake-up > Always)
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model or geographical area.
- If Night Mode is turned on in Now brief > Now brief Settings > Settings, users are not detected when it is dark around them.
- When Inactive Schedule is turned on in Now brief > Now brief Settings > Settings > User Detection, users are not detected during a set time period.
- OLED model automatically activate the Panel Care function when the Product is turned off after being watched for a long time. When the Panel Care function is operating, the Now brief's user detection function temporarily does not work.

Getting started by using the Select button on the remote control

> left directional button > Settings > All Settings > Advanced Features > Now brief > Enable with Remote

When the Product is turned off, press the Select button on the remote control to launch Now brief.

To turn off the Now brief screen, press and hold the button on the remote control.

This function may not be supported depending on the model.

Getting started by tapping on the screen

> left directional button > Settings > All Settings > Advanced Features > Now brief > Enable with Touch

When the Product is turned off, tap on the screen to launch Now brief.

To turn off the Now brief screen, double-tap on the Now brief screen.

This feature is only supported on models that support touch functionality.

Information provided in Now brief

Weather, notes, SmartThings (Home Status, Camera, Energy), music, and many other forms of useful daily information is provided as content.

Use Now brief Settings > Content to configure settings so that only specific Content is displayed.

Supported content may vary depending on the model, region, and environment where the service is used.

Changing the Now brief Wallpapers

Navigate to Now brief > Now brief Settings > Wallpapers and then select the wallpaper you want.

Changing the Settings of Now brief

On the Now brief screen, use the Now brief Settings menu to change settings.

- Screen Timeout

  Adjust the screen-off time.

- Auto Loop

  Adjust the page transition time.

- User Detection

  Configure the User Detection Settings, Sensitivity, and Inactive Schedule settings. Inactive Schedule disables the User Detection feature for a specified period of time.

- Night Mode

  Prevent the Now brief from turning on even if a user is detected, when the surroundings are dark.

- Touch Detection

  When the Product is turned off, tap on the screen to launch Now brief.

- Remote Control

  When the Product is turned off, press the Select button on the remote control to launch Now brief.

- Content Auto Adjustment

  Content order is automatically adjusted based on how often you use them and how frequently they update.

- Tips

  Browse through tips for using Now brief. Click the Try it button to try out available features.

Configuring Start Screen

Configure settings for the start screen that is displayed when turning on the Product or using content.

Launching Smart Hub automatically

> left directional button > Settings > All Settings > Advanced Features > Start Screen Options > Start with Smart Hub Home Try Now

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

This function may not be supported depending on the model.

Launching Samsung TV Plus automatically

> left directional button > Settings > All Settings > Advanced Features > Start Screen Options > Autorun Samsung TV Plus Try Now

Automatically launches Samsung TV Plus when the TV is turned on. If this option is turned off, the last used source will be displayed instead.

This function may not be supported depending on the model.

Automatic casting in Multi View

> left directional button > Settings > All Settings > Advanced Features > Start Screen Options > Autorun Multi View Casting Try 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.

This function may not be supported depending on the model.

Automatic Mirroring from Multi View

> left directional button > Settings > All Settings > Advanced Features > Start Screen Options > Autorun Multi View Mirroring Try Now

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.

It is available on the screen for any broadcast, external device, or app that supports Multi View.

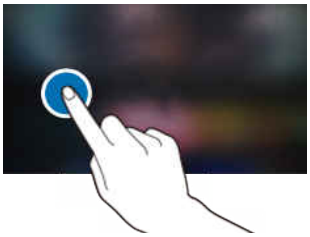
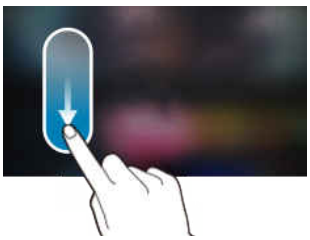
This function may not be supported depending on the model.

Using the Touch Feature

Control menu items by touching the screen.

- This feature is supported on The Moving Style(LSM7F) model only.
- The Touch feature may not be supported by some apps or external devices.
- When sharing screens with mobile devices, touch functionality is supported on Samsung Galaxy devices only.

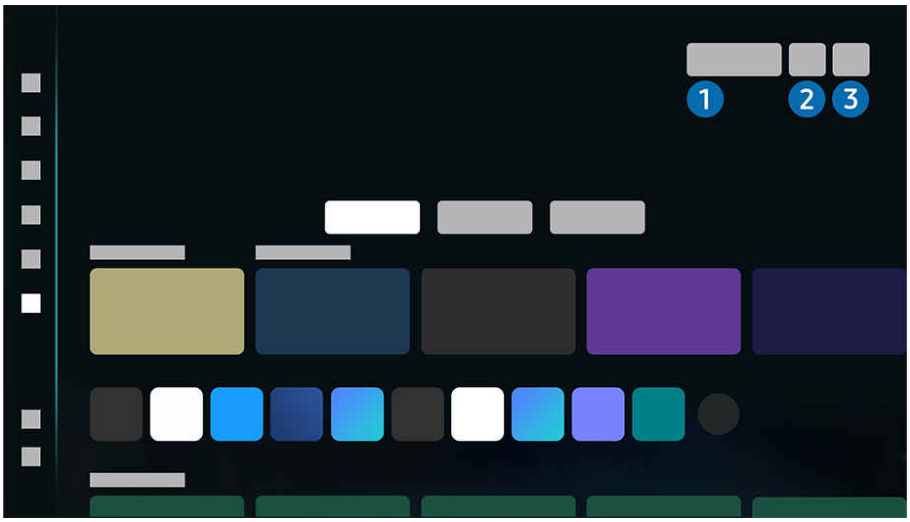
Basic touch gestures

Press		Press on the screen to launch the intended item or app.
Press and Hold		Press and hold on the screen to view a description of the Settings menu or brief information about content.
Drag		Drag on the screen to view the list within the page.
Long Press and Drag		Move or delete an item by long-pressing and dragging it. • Move or delete the app list and quick setting items on the Home screen.

About the Status Bar

Check the status of your device by viewing the status bar at the top right of the screen.

The status bar appears when the **Home**, **Game**, **Now brief**, or **Art** screen is accessed, and disappears after a while.



The screen display may vary from the image shown.

1. Time
2. Shows the network connection status and the signal strength.

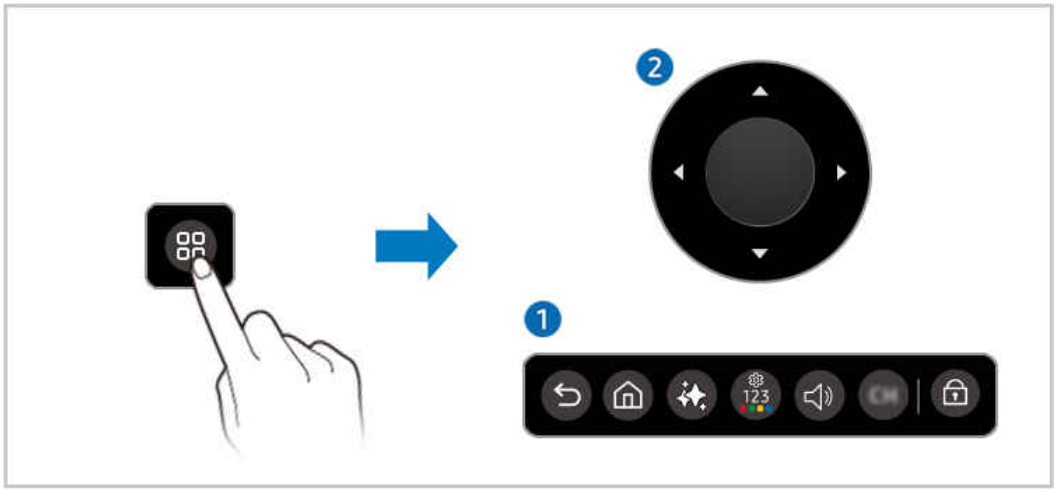
   Wired LAN connection status is not supported.
3. Shows the battery level and charging status.

Using the Virtual Remote Control

Easily run features using the virtual remote control.

Touch the screen and press the displayed at the edge of the screen to display the virtual remote control.

- The virtual remote can be moved to a different location by dragging it by the border area.
- Available buttons may differ, depending on the app.
- The four-way button only appears in apps that do not support touch functionality.



Available features include 1 Back, Home, Samsung Vision AI Companion, Quick Panel, Volume, Channel and Touch Input Lock.

2 The four-way button appears in apps that do not support touch input; it is possible to move the focus or select items using this button.

- If you press and hold the Back, Home, or Channel button for more than 1 second, the same functionality as the shortcut button on the remote control is provided. For details, refer to ' About the Samsung Smart Remote (Remote Control) '.

Using the Edge Quick Settings Menu

Pull down from the top of the screen to display the Edge Quick Settings window, where you can easily configure settings for the main features of the product.

To close this window, tap any area outside the window.



1 Status Bar

Check the current time, the network connection status, and the battery status.

2 Shortcut menus

- Home Screen: Provides a variety of setting menu items, including Network Settings, Bluetooth, Power Off Menu, Now brief, Battery Saving, Touch Guide, Quick Menu, All Settings, Brightness Optimisation, Mute.
- Now brief Screen: Provides a variety of setting menu items, including Network Settings, Bluetooth, Screen Off, Home, Tips, Screen Timeout, Night Mode, Settings.

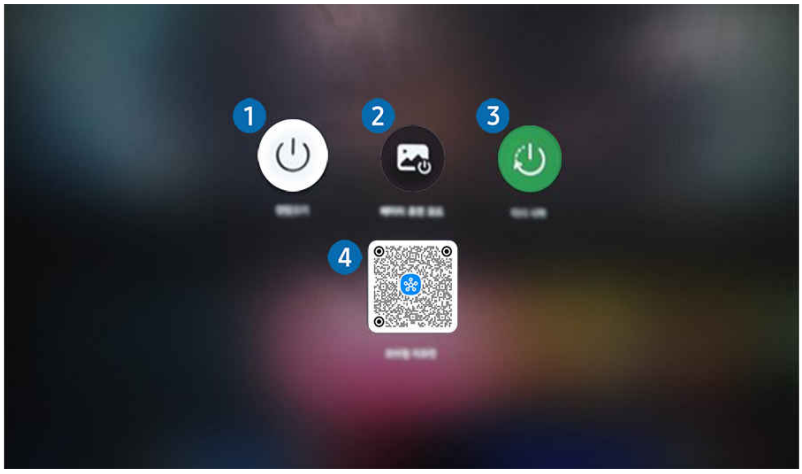
  For more information on the Power Off Menu, refer to 'Using the Power Off Menu'.

  Press the or to turn it on or off. Press and hold to access the settings menu for each function.

3 Adjust the screen brightness and sound volume by dragging.

Using the Power Off Menu

Press the product’s power button briefly to access the Power Off Menu.



1 Power off

Turns off the Product.

2 Battery Rest Mode

Completely disconnects the battery's power supply to turn off the product, minimising battery drain.

- If the product is turned off while in **Battery Rest Mode**, it can only be turned on by pressing the product's power button.
- Some features (such as **Now brief** and **Mobile Remote**) are restricted.

3 Restart

Turns the Product off and then on again.

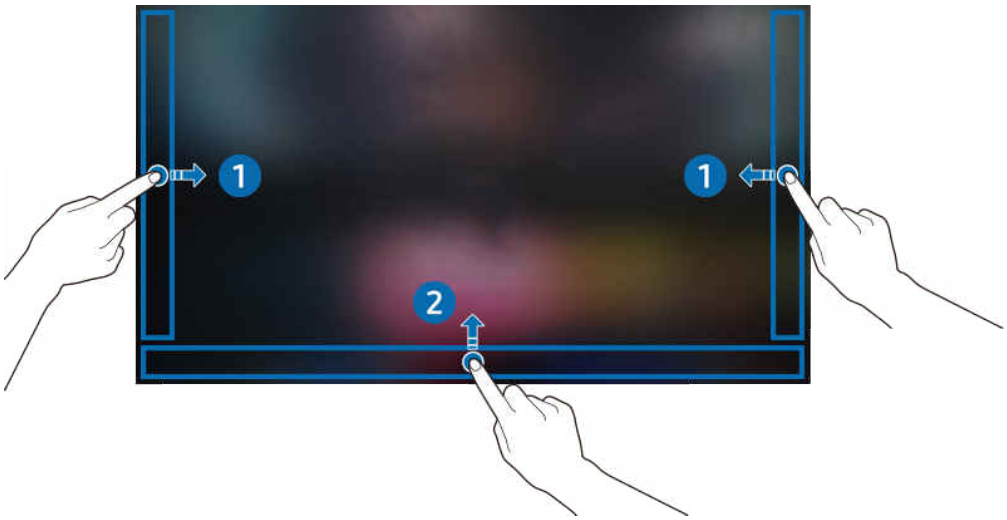
4 Mobile Remote

Scan the QR code on the screen, using your mobile device. Use the **Mobile Remote** features from the SmartThings app on your mobile device.

Using Edge Swipe Gestures

Touch and hold at the edge of the screen, and slide toward the center of the screen. This allows you to easily run the following features.

This feature may not be supported depending on the app or external device.



1 Swipe from the left/right edge of the screen towards the center: Returns to the previous step.

Touching the screen with three fingers simultaneously will activate the same function.

2 Swipe from the bottom edge of the screen towards the center: Returns to the Home Screen.

Using the Touch Guide

> left directional button > Settings > Support > Tips and User Guides > Touch Guide Try Now

This guide provides information on the touch and gesture functions.

This function may not be supported depending on the model.

This feature can also be launched from the Edge Quick Settings Menu. For details, refer to 'Using the Edge Quick Settings Menu'.

Picture and Sound

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

Adjusting the Picture Quality

Change the Picture Mode and adjust Expert Settings.

Choosing a picture mode

> left directional button > Settings > All Settings > Picture > Picture Mode Try Now

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 suitable for general viewing environments.

- Eco

  This screen is provided to save energy.

  If you change to another picture mode, the screen may flicker during picture-mode switching.

- Movie

  Is suitable for watching Product 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.

  FILMMAKER MODE may look darker than other picture modes.

  You 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.

  FILMMAKER MODE™ logo is a trademark of UHD Alliance, Inc.

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

Configuring advanced picture settings

> left directional button > Settings > All Settings > Picture > Expert Settings Try Now

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

Some Expert Settings features may not be supported depending on the PC input, source devices connection, using Apps and Eye Care operation.

- 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.

- Colour Try Now

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

- Tint (G/R) Try Now

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

- 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.

  This function may not be supported depending on the model.

- Contrast Enhancer Try Now

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

- Shadow Detail Try Now

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

- **Gamma** Try Now

  Adjust the medium brightness of a video.

- **Local Dimming** Try Now

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

  This function supports **Standard**, **High**, and **Low**. In **Standard**, ambient brightness is detected to adjust the image quality.

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

- **Apply Picture Settings** Try Now

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

- **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 HDMI (1080i). Supported ports and input signals may differ, depending on the model.

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

- **Colour Space Settings** Try Now

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

- **Colour Booster** Try Now

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

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

- **Color Booster Pro** Try Now

  AI classifies colours for each scene and implements optimal colour intensity accordingly.

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

- **Colour Tone** Try Now

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

  This function may not be supported depending on the model.

- **White Balance** Try Now

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

- **Picture Clarity Settings** Try Now

  Optimise a video that has many dynamic scenes.

  When **LED Clear Motion** is set to **On**, the screen is flashing or has become darker than when it is **Off**.

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

- **Blue Light Reduction**

  Helps soothe your eyes by reducing blue light and using warm colours.

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

- **Picture Size Settings** Try Now

  Configure the picture size settings. You can change the size of the picture displayed on the Product screen.

- **Peak Brightness** Try Now

  Adjust the maximum peak brightness for a brighter screen.

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

- **Dynamic Brightness** Try Now

  Automatically adjust the screen brightness to maintain optimum screen contrast.

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

- **VRR Control** Try Now

  Sync GPU provides optimal gaming conditions.

  This function may not be supported depending on the model.

- **Reset Picture** Try Now

  Reset the picture settings to the default values.

Changing to a comfortable display mode suitable for sleep

Home > left directional button > Settings > All Settings > Picture > EyeComfort Mode Settings

Enable comfortable display mode, and adjust the mode start and end times.

This function may not be supported depending on the model.

- EyeComfort Mode

  EyeComfort Mode syncs the sunrise/sunset times and ambient light intensity. After sunset, the mode provides warmer colours 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 Mode, first you need to set the current time. Configure the Time(Home > left directional button > Settings > All Settings > General & Privacy > Time) setting. Try Now

  The sunrise/sunset time sync function provided in EyeComfort Mode 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.

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

  – End Time

    Set the End Time manually.

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

  – EyeComfort Mode Level

    Adjust the level of the EyeComfort Mode screen.

Using Eye Saver Mode

> left directional button > Settings > All Settings > Picture > Eye Care > Eye Saver Mode Try Now

Set to an optimum picture quality suitable for eye relaxation.

This function may not be supported depending on the model.

Using Adaptive Picture

> left directional button > Settings > All Settings > Picture > Eye Care > Adaptive Picture Try Now

Optimises brightness and provides the best picture quality in real time, based on your lighting environment.

Adaptive Picture is disabled if Picture Mode is set to sRGB or Eco Sensor Mode is set to On.

This function may not be supported by some modes or apps (e.g., Game Mode).

This function may not be supported depending on the model.

Automatically adjusting image quality

> left directional button > Settings > All Settings > 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.

Using the Panel Care feature

Protects the panel to prevent problems with the product screen.

Precautions for preventing image retention

- If a still screen is displayed for an extended period of time, image retention or bad pixels may occur.
  - Examples of still screens that cause image retention
    - A still image, or an image with objects fixed to a spot (e.g., desktop icon, fixed windows such as menus, logos, etc)
    - Menu items or icons fixed to a spot in a web browser or webpage
    - The icons or logos of menu items or source devices (e.g., game console, set top box, PC, etc) fixed to a spot
    - A playing video being kept paused for an extended period of time
    - Use of an input source that has a different aspect ratio from the screen size for an extended period of time (e.g., full screen mode of 16:9 or 4:3 ratio videos)
- To prevent image retention and other issues with the product screen, the Panel Care feature protects the screen.
  - This function works when AC power is connected.

Protection of the Product screen through Panel Care

Home > left directional button > Settings > All Settings > Picture > Panel Care Try Now

Adjusts settings to protect the screen.

- This function is supported on the OLED Product only.

- 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.

  - Run this function when there are after-images on the screen.
  - This function is not supported on the G95SC model.

Setting the Viewing Environment for External Devices

You can optimise the Product for viewing specific video formats.

Using Input Signal Plus

Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Input Signal Plus Try Now

Expands the input signal range for HDMI, USB-C, Display Port connections.

- 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 Product screen may flicker.
- When you connect the Product 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.
- This function may not be supported depending on the model or geographical area.
- For more information about the resolution, refer to the Product guide. You can download the Product guide from Samsung Electronics' website (https://www.samsung.com) and read it digitally, or you can print hard copy.
- If the **Input Signal Plus** feature is turned off, HDR signals sent from an external device cannot be received.

Using the Easy Wake Up feature

Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Easy Wake Up Try Now

Turn on the screen from standby mode with a keyboard, mouse or gamepad connected to the monitor. Selecting On may increase power consumption.

You can power off by pressing the button on the monitor.

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

Setting the USB input port

Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > USB Input Port Setup Try Now

Set up the device to connect to the Product USB port and set up the port changing type. After the setup, you can operate the device with a device connected to Product or another device connected by USB. For this setup, the USB port device must be connected to the Product with a USB-Hub Cable or USB-C.

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

To switch the mouse, connected to the product, between multiple PCs connected to the product, ensure the Samsung Display Manager software is installed on the PCs. Details on how to install and use Samsung Display Manager can be found at www.samsung.com.

- USB Port Changing Setup

  Set the USB port type to assign Product.

- USB Hub Cable Connection

  Set up which USB Hub cable is connected to which PC port.

  This function may not be supported depending on the model

Using Auto Source Switch+

Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Auto Source Switch+ Try Now

Display a new activated source automatically.

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

Using HDMI Black Level

Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > HDMI Black Level Try Now

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

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

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

Configuring a Sound Mode and Expert Settings

Change the Sound Mode and adjust Expert Settings.

Choosing a sound mode

> left directional button > Settings > All Settings > Sound > Sound Mode Try 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

> left directional button > Settings > All Settings > Sound > Expert Settings Try Now

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

- Balance Try Now

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

  When the Product is used in portrait mode, the Balance function may not work properly.

- Equaliser Try Now

  Customise the Product sound by adjusting the volume of high-pitched and low-pitched sounds.

  This function is not available when the Adaptive Sound+ (or Adaptive Sound Pro) function is turned on.

  This function is not available when the Sound Mode function is set to Adaptive Sound, Game, or Amplify.

  The name and properties of this function may appear differently depending on the connected external device.

- Woofer & Equaliser

  Use Equaliser to customise sound setting for each speaker.

  This function may not be supported depending on the model.

- 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.

  > This function is available when the input source is HDMI and the receiver is connected via HDMI-ARC.

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

- **Digital Output Audio Delay** Try Now

  Adjust the output delay time for digital audio.

  > This feature is only available when the external device is connected via HDMI (ARC) and SPDIF (Sony Philips Digital Interface).

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

- **Dolby Atmos** Try Now

  Set to **On** if the audio device connected via the HDMI (eARC) port supports Dolby Atmos. When the option is set to **On**, Dolby Digital+ with Atmos stream, sent from an external device, can be received. If this function is on, set **Digital Output Audio Format** to **Auto**.

  When watching Product through the embedded speakers, the virtual surround sound effect of Dolby Atmos can be turned on or off. If the Product has been installed in portrait mode by using separate accessories, the virtual surround sound effect through the Product 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

  Play a sound when a menu or option is selected.

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

- **Simultaneous Optical Output**

  The device connected via optical always outputs sound.

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

- **Reset Sound** Try Now

  Reset changed sound settings.

Using the Sound Support Functions

Configure the sound settings for your Product.

Selecting speakers

Home > left directional button > Settings > All Settings > Sound > Sound Output Try Now

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

If the soundbar is connected to the Product 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.

Your Samsung Product 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.)

Some USB sound device models may not be compatible with the Product.

Samsung Product supports the Q-Symphony function.

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

This function may not be supported depending on the model.

Listening to the Product through Bluetooth devices

Home > left directional button > Settings > All Settings > Sound > Sound Output > Bluetooth Speaker List Try Now

You can connect Bluetooth audio devices to the Product. They must be paired using the Product'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 Product fails to find a Bluetooth audio device, place the device closer to the Product, and then select Scan.
- When you turn on a paired Bluetooth audio device, the Product 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".
- This function may not be supported depending on the model.
- On some models, you can connect and use two Bluetooth devices simultaneously.
- If multiple Bluetooth audio devices and Bluetooth 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 Bluetooth audio devices for connection can be limited to one device, for a stable game service.
- If a call comes in while you listen to Product sound with Galaxy Buds, the Buds connects to the mobile phone and the Product sound is muted for connecting to the call.

  When the call is ended, the Buds automatically connects to the Product. This feature is supported only when the Product and mobile phone are connected to the same Samsung account.
- If the Galaxy Buds is disconnected while listening to Product sound with the Buds, the Product sound is muted.

Playing Product sounds by configuring Q-Symphony Settings

Home > left directional button > Settings > All Settings > Sound > Q-Symphony Setup

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

- This function may not be supported depending on the model.
- 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.
- A maximum of three Samsung audio devices can be connected simultaneously, depending on the device model and the mode setting.
- This feature may not be supported, depending on your Product model and Samsung audio device.
- This function is not supported if your Product model is Odyssey Ark and installed in portrait orientation. To use the Product 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 Product.

- 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.

- Q-Symphony Mode

  Customise Q-Symphony Mode, depending on the content type and whether or not your speakers support Q-Symphony Mode.

  – Q-Symphony

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

  – Stereo

    Two Samsung audio devices that support Stereo serve as Stereo speakers.

    This feature can be configured only when Samsung audio devices of the same model that support Stereo are connected.

- Select Sound Device

  Set different configurations by choosing audio devices according to the Q-Symphony Mode settings.

- Adjust Position

  Change the positions of audio devices configured in Q-Symphony Mode.

  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.

  – Auto Set

    The Auto Set feature automatically changes the positions of configured audio devices.

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

    Auto Set may not be supported, depending on the models of your Samsung wireless audio devices.

    This feature may not work, depending on the Product microphone and sound output settings.

- Adjust Level

  Adjust the volume of audio devices configured in Q-Symphony Mode.

  Adjust Level may not be supported, depending on the models of your Samsung wireless audio devices.

  The Select Sound Device, Adjust Position and Adjust Level settings are saved separately for each Q-Symphony Mode

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

System and Support

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

Product-Viewing Support Functions

Use the functions that are available while watching Product.

This function may not be supported depending on the model.

Setting the functions for the service provider

> left directional button > Settings > All Settings > General & Privacy > Broadcasting > Service Provider Try Now

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

> left directional button > Settings > All Settings > General & Privacy > Broadcasting > Service Provider Info & Settings Try Now

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

These settings can be configured only for available Service Provider.

Using the Time Functions and the Timers

Set the current time and use the timer function.

> left directional button > Settings > All Settings > General & Privacy > Time Try Now

You can set the Clock Mode manually or automatically. Once the Clock is set, you can view the current time on the Product 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 Product is not connected to the network.

Setting the clock automatically

Home > left directional button > Settings > All Settings > General & Privacy > Time > Clock Mode > Auto

This function works only when the Product 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 Product 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.

Changing the current time

Home > left directional button > Settings > All Settings > General & Privacy > Time > Time Offset

Try Now

Time Offset adjusts the time through a network connection.

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

Setting the clock manually

Home > left directional button > Settings > All Settings > General & Privacy > Time > Clock Mode > Manual

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 Power and Energy Saving Functions

Reduce the Product's energy consumption.

Reducing the energy consumption of the Product

Home > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving Try Now

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

- Energy Saving Solution Try Now

  Reduce power consumption by adjusting brightness settings.

- Brightness Optimisation Try Now

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

  This function may not be supported depending on the model.

- Minimum Brightness Try Now

  When Brightness Optimisation is turned on, you can manually adjust the minimum brightness of the Product screen. This function acts only when the value is less than the setting in Home > left directional button > Settings > All Settings > Picture > Expert Settings > Brightness. Try Now

  This function may not be supported depending on the model.

- Motion Lighting Try Now

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

  This function is not available when the Game Mode function is turned on.

- Screen Saver Try Now

  Activate a screensaver when your Product displays a still image for two minutes or more.

  This function may not be supported depending on the model.

  If your OLED Product displays the same still image for 2 minutes, Screen Saver is automatically activated. Screen Saver cannot be turned off, to ensure protection of pixels.

- Auto Power Saving Try Now

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

  This feature may not be supported, depending on the Wi-Fi router.

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

- Auto Power Off Try Now

  Automatically turns off the Product to reduce unnecessary power consumption if the 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.

- Sleep Timer

  You can use this function to automatically shut off the Product 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 Product.

  This function may not be supported in some viewing modes.

- Off Timer

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

  To use this function, first set the Time (> left directional button > Settings > All Settings > General & Privacy > Time).

  This function may not be supported in some viewing modes.

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

- Standby Mode Timer Try Now

  Choose your Standby Mode time. After the set time has elapsed, your screen will go into Standby Mode automatically.

  This function may not be supported in some viewing modes.

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

Updating the Product's Software

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

⚠ DO NOT turn off the Product's power until the update is complete. The Product 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.

> left directional button > Settings > Support > Software Update Try Now

If your Product is a rechargeable model, please perform the Software Update while the power cable is connected.

Updating through the network

> left directional button > Settings > Support > Software Update > Update Now Try Now

Updating from the network requires an active network connection.

Updating through a USB device

> left directional button > Settings > Support > Software Update > Update Now Try Now

After downloading the update file from the Samsung website and storing it on a USB device, connect the USB device to the Product 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 Product will not be able to locate the update package.

Updating the Product automatically

Home > left directional button > Settings > Support > Software Update > Auto update Try Now

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

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

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

Security updates information

Security updates are provided to strengthen the security of your device and protect your personal information. For more information on security updates, visit https://security.samsungtv.com.

- The website supports only some languages.

Using the Parental Settings function

Configure content or app security settings.

Home > left directional button > Settings > All Settings > General & Privacy > Parental Settings Try Now

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

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

- Programme Rating Lock Try Now

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

  The name of this function may appear differently depending on the model or geographical area.

- Channel Lock Settings Try Now

  Set the channel to lock or unlock.

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

- App Lock Try Now

  Set the installed app to lock or unlock.

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

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility

Try Now

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 Subtitles, Auto Picture Off, Magnification, High Contrast, Relumino Mode, Zoom Menu and Text, Greyscale, Colour Inversion, SeeColors Mode, *Learn the Smart Monitor Remote, Menu Learning Screen, Subtitle, Sign Language Zoom, Edit Sign Language Zoom, Multi-output Audio, Slow Button Repeat, Auto Menu Sort, 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.
- *: The menu name may differ depending on the model.

Enabling voice guides for the visually impaired

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility > Voice Guide Settings Try Now

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 Product provides voice guides for channel change, volume adjust, information on current and upcoming programmes, schedule viewing, other Product 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 Product Language. However, some languages are not supported by Voice Guide even though they are listed in the Product Language. English is always supported.
- For more information about the Product Language settings, refer to "Changing the menu language".

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

You can configure the Volume, Speed, Pitch, and the *Smart Monitor Background Volume of the voice guide.

- *: The menu name may differ depending on the model.

Enabling audio for the audio (video) description function

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Audio Description (Video Description) Try 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.

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

Setting the audio subtitles

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Audio Subtitles Settings Try Now

This feature audibly reads captions displayed on video content. You can change the volume or speed of audible captions.

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

The Product screen is turned off but audio continues

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Auto Picture Off Try Now

Turn off the Product 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 Product screen turns back on.

The screen automatically turns off if the Auto Picture Off feature is enabled and there is no button input for a certain period of time.

Enlarge the screen

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Magnification Try Now

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.

White text on black background (high contrast)

> left directional button > Settings > All Settings > General & Privacy > Accessibility > High Contrast Try Now

You can change Smart Hub and setting menu screens to white text on a black background and change the transparent Product 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 outline emphasis feature for viewers with low vision

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Relumino Mode Settings Try Now

This feature increases the contrast and brightness of the screen and emphasises 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 HDMI. It may not be available for some videos.

This input signal may differ depending on the model and geographical area.

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

- Relumino Mode

  Enable or disable the Relumino Mode feature.

- Intensity

  Adjusts the contrast, brightness, and emphasis of shape edges and outlines on the screen.

- Edge Color

  Change the edge colour.

- Together Mode

  Shows the screen displayed when Relumino Mode is turned on and the screen displayed when the mode is turned off, side by side simultaneously.

Enlarging the font (for the visually impaired)

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Zoom Menu and Text Try Now

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

Setting the screen to black and white

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Greyscale Try Now

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

If Greyscale is on, some Accessibility menus are not available.

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

Inverting the screen colour

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Colour Inversion Try Now

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

If Colour Inversion is on, some Accessibility menus are not available.

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

Setting the colour correction feature for users with colour blindness

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility > SeeColors Mode Try Now

This feature helps users with colour blindness experience richer colours.
Use this feature to customise the colours for your unique viewing conditions, to experience richer colours on the screen.

When SeeColors Mode is in use, some menus are disabled.

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

Learning about the remote control (for the visually impaired)

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility > *Learn the Smart Monitor Remote Try Now

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 Product will tell you its name. Press the Return button twice to exit *Learn the Smart Monitor Remote.

*: The menu name may differ depending on the model.

Learning about the Product menu

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility > Menu Learning Screen Try Now

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

Watching Product broadcasts with subtitles

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility > Subtitle Settings Try Now

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

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

This function has no relationship with the features for controlling sub-titles of DVD or Blu-ray players. To control DVD or Blu-ray subtitles, use the sub-title feature of the DVD or Blu-ray player and the player's remote control.

- Subtitle Try Now

  Turns on or off the subtitle.

- Subtitle Mode Try Now

  Sets the subtitle mode.

- Subtitle Language Try Now

  Sets the subtitle language.

Selecting the broadcasting subtitle language

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

- Primary Subtitle Language Try Now

  Sets the primary subtitle language.

- Secondary Subtitle Language Try Now

  Sets the secondary subtitle language.

Enlarging the sign language screen for the hearing impaired

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility > Sign Language Zoom Settings Try Now

You can zoom in the sign language screen when the programme 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.

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

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility > Multi-output Audio Try Now

You can turn on both the Product 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 Product speaker.

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

For more information, refer to "Listening to the Product through Bluetooth devices".

Configuring the repeat settings for remote control buttons

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility > Remote Button Repeat Settings Try Now

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.

Using Accessibility Shortcut Settings

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Accessibility Shortcut Settings Try Now

Set the accessibility shortcut to activate when the Volume button is pressed and held.

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

Using Time to Take Action

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Time to Take Action Try Now

Choose how long messages, like pop-ups, stay on screen before you take action.

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

Using Moving Text and Image

> left directional button > Settings > All Settings > General & Privacy > Accessibility > Moving Text and Image Try Now

Some screen effects may be limited, but this can be helpful for those sensitive to screen motion.

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

Using Other Functions

You can view other functions.

Changing the menu language

> left directional button > Settings > All Settings > General & Privacy > Language Try Now

Changing the Menu Style

> left directional button > Settings > All Settings > General & Privacy > Menu Style Try Now

Change the size and transparency of the menu items displayed on the screen.

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

Checking the remote control battery level

> left directional button > Settings > All Settings > General & Privacy > Remote Control 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.

- Remote Grip Sensor

  Alerts users so that they can hold the remote control correctly, if the remote-control grip sensor senses any incorrect orientation of the remote control. When turned off, the alert turns off.

- General Remote Mode

  Turn on this feature to control the screen using another Samsung remote.

Configuring settings for battery-related features

Configure settings for battery-related features, as follows:

- Battery Saving

  Turn on this feature to automatically adjust the screen brightness when the charger is not connected. This minimise battery power consumption.

  Some features may be limited when this feature is in use.

- Battery Protection Mode

  Restricts charging to 85% to protect the battery.

Adjusting the Sound Feedback volume

Home > left directional button > Settings > All Settings > General & Privacy > Sound Feedback

Adjust the volume of the notification sound when using menu items or selecting options.

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

Selecting Usage or Retail Mode

Home > left directional button > Settings > All Settings > General & Privacy > Usage Mode Try Now

You can set the Product 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 Product settings automatically reset after a preset amount of time.

This function may not be supported depending on the model.

Setting up a password

Home > left directional button > Settings > All Settings > General & Privacy > Change PIN Try Now

The PIN input window appears. Enter a PIN. Enter it again to confirm it.

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 Product turned on, press the following buttons on the remote control in the order shown to reset the PIN to "0000" (for France and Italy: "1111").

On the Samsung Smart Remote or Remote Control: Press +/− (Volume) button. > Volume Up > Return > Volume Down > Return > Volume Up > Return.

Restoring the Product to the factory settings

> left directional button > Settings > All Settings > General & Privacy > Factory data reset Try Now

You can restore all Product settings to the factory defaults.

1. Select Factory data reset. The security PIN entry window appears.
2. Enter the security PIN, and then select Factory data reset. All settings are then reset. The Product turns off and on again automatically and displays the Initial Setup screen.

For more information on Factory data reset, refer to the user manual that came with the Product.

If your product is a rechargeable model, please perform the Factory data reset while the power cable is connected.

Managing External Devices

> left directional button > Settings > All Settings > Connections > Device Connection Manager Try Now

When you connect external devices, such as mobile devices or tablets connected to the same network as the Product 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 Product.

- Device List

  Manage a list of external devices registered to the Product.

Using AirPlay

> left directional button > Settings > All Settings > Connections > Apple AirPlay Settings Try Now

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

This function may not be supported depending on the model.

Using the Maintenance Mode

Home > left directional button > Settings > Support > Maintenance Mode Try Now

Protect your personal information while the Product 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 Product.

This function may not be supported depending on the model.

Using Google Cast

Home > left directional button > Settings > All Settings > Connections > Google Cast Settings Try Now

Use Google Cast to play movies, music, shows, or other content, stored on your mobile device or computer, from the product screen.

This function may not be supported depending on the model.

Using Eclipse Lighting

Home > left directional button > Settings > All Settings > General & Privacy > Eclipse Lighting

With Eclipse Lighting, you can create your own variety of unique gaming spaces.

This function may not be supported depending on the model.

- Lighting

  Turn the LED lighting on or off at the top and bottom of the screen.

- Light Effect

  Select an effect for the LED lighting.

- Colour

  Select a colour for the LED lighting.

- Eclipse Sync

  Eclipse Sync provides more immersive gaming by synchronising the lighting effect with the screen.

Changing the screen using Active Ambient

Home > left directional button > Settings > All Settings > General & Privacy > Active Ambient

Select the desired pattern and change the current blank screen to one of a variety background patterns.

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

Precautions and Notes

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

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 Product.
- 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 Product 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 colour selection may not be available.
- There is a limit to the number of bookmarks and the size of the log file that can be saved.
- The number of windows that can be opened concurrently is limited.
- Web browsing speed will differ with the network environment.
- Browsing history is saved from latest to oldest, with the oldest entries being overwritten first.
- Depending on the types of video/audio codecs supported, you may not be able to play certain HTML5 video and audio files.
- Video sources from PC-optimised streaming service providers may not play properly on our proprietary Internet browser.

Read before setting up a wireless network connection

Precautions for wireless network

- This Product supports the IEEE 802.11 a /b /g /n /ac communication protocols. Video files stored on a device connected to the Product via a Home Network may not play back smoothly.

  Some of the IEEE 802.11 communication protocols may not be supported depending on the model or geographical area.

- To use wireless network, the Product must be connected to a wireless access point or modem. If the wireless access point supports DHCP, the Product can use a DHCP or static IP address to connect to the wireless network.
- 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 Product only supports the following wireless network security protocols. The Product 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 Products 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 Product 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 Try Now

- The Product 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 Product may not be able to recognise a USB device or read the files on the device if it is connected with a USB extension cable. Do not disconnect USB devices while they are transferring files.
- When connecting an external hard drive, use the USB (HDD 5V 1A) port. We recommend that you use an external hard drive with its own power adapter.

  USB (HDD 5V 1A) port is supported by some models.

- Certain digital cameras and audio devices may not be compatible with the Product.
- If there are multiple USB devices connected to the Product, the Product might not be able to recognise some or all the devices. USB devices that use high-power input should be connect to the USB (HDD 5V 1A) port.

  USB (HDD 5V 1A) port is supported by some models.

- The Product supports the FAT, exFAT, and NTFS file systems.
- In the media contents list, the Product 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 Product.
- Certain files are not supported on all models.
- Models released in 2025 do not support WMA, WMV or VC1.

Supported subtitles

Subtitle formats

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

Video formats with subtitles

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

Supported image formats and resolutions

File extension	Format	Resolution
*.jpg *.jpeg	JPEG	16320 x 12240
*.png	PNG	4096 x 4096
*.bmp	BMP	4096 x 4096
*.mpo	MPO	15360 x 8640
*.heic	HEIF	16320 x 12240

The MPO format is supported partly.

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
*.wav	wav	wav	
*.mid *.midi	midi	midi	Supports type 0 and type 1. Seek is not supported. Supports USB device only.
*.ape	ape	ape	
*.aif *.aiff	AIFF	AIFF	
*.m4a	ALAC	ALAC	

Supported video codecs (M80F/LSM7F model)

<table>
<tr><th>File format</th><th>Container</th><th>Video codecs</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bitrate (Mbps)</th><th>Audio codecs</th></tr>
<tr><td rowspan="15">*.avi
*.mkv
*.asf
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.flv
*.vob
*.svi
*.m2ts
*.mts</td><td rowspan="15">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>H.264 BP/MP/HP</td><td>4096 x 2160</td><td>4096 x 2160: 60
1920 x 1080: 120</td><td>60</td><td rowspan="15">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
Dolby Digital+
MPEG(MP3)
MPEG-H
AC-4
OPUS
G.711(A-Law, µ-Law)</td></tr>
<tr><td>HEVC (H.265 - Main, Main10)</td><td>4096 x 2160</td><td>4096 x 2160: 60
3840 x 2160: 120</td><td>80</td></tr>
<tr><td>Motion JPEG</td><td>3840 x 2160</td><td>30</td><td>80</td></tr>
<tr><td>MPEG4 SP/ASP</td><td rowspan="6">1920 x 1080</td><td rowspan="3">60</td><td rowspan="6">20</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>Microsoft MPEG-4 v1, v2, v3</td><td rowspan="3">30</td></tr>
<tr><td>H.263 Sorenson</td></tr>
<tr><td>VP6</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>120</td><td>40</td></tr>
<tr><td rowspan="3">*.webm</td><td rowspan="3">WebM</td><td>VP8</td><td>1920 x 1080</td><td>60</td><td>20</td><td rowspan="3">Vorbis</td></tr>
<tr><td>VP9 (Profile 0, profile 2 supported)</td><td>3840 x 2160</td><td>60</td><td>80</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>120</td><td>40</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>1920 x 1080</td><td>60</td><td>20</td><td>RealAudio 6</td></tr>
</table>

Supported video codecs (M1EF/M70F model)

<table>
<tr><th>File format</th><th>Container</th><th>Video codecs</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bitrate (Mbps)</th><th>Audio codecs</th></tr>
<tr><td rowspan="2">*.avi
*.mkv
*.asf
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.flv
*.vob
*.svi
*.m2ts
*.mts</td><td rowspan="2">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>H.264 BP/MP/HP</td><td rowspan="2">4096 x 2160</td><td rowspan="2">4096 x 2160: 60
1920 x 1080: 120</td><td>60</td><td rowspan="9">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
Dolby Digital+
MPEG(MP3)
MPEG-H
AC-4
OPUS
G.711(A-Law, µ-Law)</td></tr>
<tr><td>HEVC (H.265 - Main, Main10)</td><td>80</td></tr>
<tr><td>Motion JPEG</td><td>3840 x 2160</td><td>30</td><td>80</td></tr>
<tr><td>MPEG4 SP/ASP</td><td rowspan="5">1920 x 1080</td><td rowspan="3">60</td><td rowspan="5">20</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>Microsoft MPEG-4 v1, v2, v3</td><td rowspan="3">30</td></tr>
<tr><td>H.263 Sorenson</td></tr>
<tr><td>VP6</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>3840 x 2160: 60
1920 x 1080: 120</td><td>40</td></tr>
<tr><td rowspan="3">*.webm</td><td rowspan="3">WebM</td><td>VP8</td><td>1920 x 1080</td><td>60</td><td>20</td><td rowspan="3">Vorbis</td></tr>
<tr><td>VP9 (Profile 0, profile 2 supported)</td><td rowspan="2">3840 x 2160</td><td rowspan="2">3840 x 2160: 60
1920 x 1080: 120</td><td>80</td></tr>
<tr><td>AV1</td><td>40</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>1920 x 1080</td><td>60</td><td>20</td><td>RealAudio 6</td></tr>
</table>

Supported video codecs (M50F model)

<table>
<tr><th>File format</th><th>Container</th><th>Video codecs</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bitrate (Mbps)</th><th>Audio codecs</th></tr>
<tr><td rowspan="13">*.avi
*.mkv
*.asf
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.flv
*.vob
*.svi
*.m2ts
*.mts</td><td rowspan="13">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>H.264 BP/MP/HP</td><td rowspan="15">1920 x 1080</td><td>60</td><td>50</td><td rowspan="15">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
Dolby Digital+
MPEG(MP3)
MPEG-H
AC-4
OPUS
G.711(A-Law, µ-Law)</td></tr>
<tr><td>HEVC (H.265 - Main, Main10)</td><td>60</td><td>50</td></tr>
<tr><td>Motion JPEG</td><td rowspan="4">60</td><td rowspan="6">20</td></tr>
<tr><td>MPEG4 SP/ASP</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>Microsoft MPEG-4 v1, v2, v3</td><td rowspan="3">30</td></tr>
<tr><td>H.263 Sorenson</td></tr>
<tr><td>VP6</td></tr>
<tr><td>AV1</td><td>60</td><td>40</td></tr>
<tr><td rowspan="3">*.webm</td><td rowspan="3">WebM</td><td>VP8</td><td>60</td><td>20</td><td rowspan="3">Vorbis</td></tr>
<tr><td>VP9 (Profile 0, profile 2 supported)</td><td>60</td><td>50</td></tr>
<tr><td>AV1</td><td>60</td><td>40</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>60</td><td>20</td><td>RealAudio 6</td></tr>
</table>

Supported video codecs (M1ED/M70D/M50D/M50C model)

<table>
<tr><th>File format</th><th>Container</th><th>Video codecs</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bitrate (Mbps)</th><th>Audio codecs</th></tr>
<tr><td rowspan="15">*.avi
*.mkv
*.asf
*.wmv
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.flv
*.vob
*.svi
*.m2ts
*.mts</td><td rowspan="15">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>H.264 BP/MP/HP</td><td>4096 x 2160</td><td>60</td><td>60</td><td rowspan="15">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
WMA
Dolby Digital+
MPEG(MP3)
AC-4
OPUS
G.711(A-Law, µ-Law)</td></tr>
<tr><td>HEVC (H.265 - Main, Main10)</td><td>4096 x 2160</td><td>60</td><td>80</td></tr>
<tr><td>Motion JPEG</td><td>3840 x 2160</td><td>30</td><td>80</td></tr>
<tr><td>MPEG4 SP/ASP</td><td rowspan="8">1920 x 1080</td><td rowspan="4">60</td><td rowspan="8">20</td></tr>
<tr><td>Window Media Video v9 (VC1)</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>Microsoft MPEG-4 v1, v2, v3</td><td rowspan="4">30</td></tr>
<tr><td>Window Media Video v7 (WMV1), v8 (WMV2)</td></tr>
<tr><td>H.263 Sorrenson</td></tr>
<tr><td>VP6</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>60</td><td>40</td></tr>
<tr><td rowspan="3">*.webm</td><td rowspan="3">WebM</td><td>VP8</td><td>1920 x 1080</td><td>60</td><td>20</td><td rowspan="3">Vorbis</td></tr>
<tr><td>VP9 (Profile 0, profile 2 supported)</td><td>3840 x 2160</td><td>60</td><td>80</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>60</td><td>40</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>1920 x 1080</td><td>60</td><td>20</td><td>RealAudio 6</td></tr>
</table>

Supported video codecs (M80C/M70C/M80D/G85SD/G70D model)

<table>
<tr><th>File format</th><th>Container</th><th>Video codecs</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bitrate (Mbps)</th><th>Audio codecs</th></tr>
<tr><td rowspan="14">*.avi
*.mkv
*.asf
*.wmv
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.flv
*.vob
*.svi
*.m2ts
*.mts</td><td rowspan="14">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>H.264 BP/MP/HP</td><td>3840 x 2160</td><td>3840 x 2160: 60
1920 x 1080: 120</td><td>80</td><td rowspan="14">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
WMA
Dolby Digital+
MPEG(MP3)
AC-4
OPUS
G.711(A-Law, µ-Law)</td></tr>
<tr><td>HEVC (H.265 - Main, Main10)</td><td>3840 x 2160</td><td>120</td><td>100</td></tr>
<tr><td>Motion JPEG</td><td>3840 x 2160</td><td>30</td><td>30</td></tr>
<tr><td>MPEG4 SP/ASP</td><td rowspan="8">1920 x 1080</td><td rowspan="4">60</td><td rowspan="3">70</td></tr>
<tr><td>Window Media Video v9 (VC1)</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td><td>60</td></tr>
<tr><td>Microsoft MPEG-4 v1, v2, v3</td><td rowspan="4">30</td><td rowspan="4">20</td></tr>
<tr><td>Window Media Video v7 (WMV1), v8 (WMV2)</td></tr>
<tr><td>H.263 Sorenson</td></tr>
<tr><td>VP6</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>120</td><td>80</td></tr>
<tr><td rowspan="3">*.webm</td><td rowspan="3">WebM</td><td>VP8</td><td>1920 x 1080</td><td>60</td><td>70</td><td rowspan="3">Vorbis</td></tr>
<tr><td>VP9 (Profile 0, profile 2 supported)</td><td>3840 x 2160</td><td>3840 x 2160: 60
1920 x 1080: 120</td><td>80</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>120</td><td>80</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>1920 x 1080</td><td>60</td><td>70</td><td>RealAudio 6</td></tr>
</table>

Supported video codecs (Odyssey Ark)

<table>
<tr><th>File format</th><th>Container</th><th>Video codecs</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bitrate (Mbps)</th><th>Audio codecs</th></tr>
<tr><td rowspan="14">*.avi
*.mkv
*.asf
*.wmv
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.flv
*.vob
*.svi
*.m2ts
*.mts</td><td rowspan="14">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>H.264 BP/MP/HP</td><td>4096 x 2160</td><td>4096 x 2160: 60
3840 x 2160: 60
1920 x 1080: 120</td><td>60</td><td rowspan="14">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
WMA
Dolby Digital+
MPEG(MP3)
AC-4
OPUS
G.711(A-Law, µ-Law)</td></tr>
<tr><td>HEVC (H.265 - Main, Main10)</td><td>4096 x 2160</td><td>4096 x 2160: 60
3840 x 2160: 120</td><td>80</td></tr>
<tr><td>Motion JPEG</td><td>3840 x 2160</td><td>30</td><td>80</td></tr>
<tr><td>MVC</td><td rowspan="8">1920 x 1080</td><td rowspan="5">60</td><td rowspan="8">20</td></tr>
<tr><td>MPEG4 SP/ASP</td></tr>
<tr><td>Window Media Video v9 (VC1)</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>Microsoft MPEG-4 v1, v2, v3</td><td rowspan="4">30</td></tr>
<tr><td>Window Media Video v7 (WMV1), v8 (WMV2)</td></tr>
<tr><td>H.263 Sorrenson</td></tr>
<tr><td>VP6</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>120</td><td>80</td></tr>
<tr><td rowspan="3">*.webm</td><td rowspan="3">WebM</td><td>VP8</td><td>1920 x 1080</td><td>60</td><td>20</td><td rowspan="3">Vorbis</td></tr>
<tr><td>VP9 (Profile 0, profile 2 supported)</td><td>3840 x 2160</td><td>60</td><td>80</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>120</td><td>80</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>1920 x 1080</td><td>60</td><td>20</td><td>RealAudio 6</td></tr>
</table>

Supported video codecs (G9/S9 Series)

<table>
<tr><th>File format</th><th>Container</th><th>Video codecs</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bitrate (Mbps)</th><th>Audio codecs</th></tr>
<tr><td rowspan="15">*.avi
*.mkv
*.asf
*.wmv
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.flv
*.vob
*.svi
*.m2ts
*.mts</td><td rowspan="15">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>H.264 BP/MP/HP</td><td>3840 x 2160</td><td>3840 x 2160: 60
1920 x 1080: 120</td><td>60</td><td rowspan="15">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
WMA
Dolby Digital+
MPEG(MP3)
AC-4
OPUS
G.711(A-Law, µ-Law)</td></tr>
<tr><td>HEVC (H.265 - Main, Main10)</td><td>7680 x 4320</td><td>7680 x 4320: 60
3840 x 2160: 120</td><td>100</td></tr>
<tr><td>Motion JPEG</td><td>1920 x 1080</td><td>60</td><td>20</td></tr>
<tr><td>MVC</td><td rowspan="8">1920 x 1080</td><td rowspan="5">60</td><td rowspan="8">20</td></tr>
<tr><td>MPEG4 SP/ASP</td></tr>
<tr><td>Window Media Video v9 (VC1)</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>Microsoft MPEG-4 v1, v2, v3</td><td rowspan="4">30</td></tr>
<tr><td>Window Media Video v7 (WMV1), v8 (WMV2)</td></tr>
<tr><td>H.263 Sorenson</td></tr>
<tr><td>VP6</td></tr>
<tr><td>AV1</td><td>7680 x 4320</td><td>7680 x 4320: 60
3840 x 2160: 120</td><td>80</td></tr>
<tr><td rowspan="3">*.webm</td><td rowspan="3">WebM</td><td>VP8</td><td>1920 x 1080</td><td>60</td><td>20</td><td rowspan="3">Vorbis</td></tr>
<tr><td>VP9 (Profile 0, profile 2 supported)</td><td>3840 x 2160</td><td>60</td><td rowspan="2">80</td></tr>
<tr><td>AV1</td><td>7680 x 4320</td><td>7680 x 4320: 60
3840 x 2160: 120</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>1920 x 1080</td><td>60</td><td>20</td><td>RealAudio 6</td></tr>
</table>

Supported video codecs (M90SF/G80SD model)

<table>
<tr><th>File format</th><th>Container</th><th>Video codecs</th><th>Resolution</th><th>Frame rate (fps)</th><th>Bitrate (Mbps)</th><th>Audio codecs</th></tr>
<tr><td rowspan="15">*.avi
*.mkv
*.asf
1) *.wmv
*.mp4
*.mov
*.3gp
*.vro
*.mpg
*.mpeg
*.ts
*.tp
*.trp
*.flv
*.vob
*.svi
*.m2ts
*.mts</td><td rowspan="15">AVI
MKV
ASF
MP4
3GP
MOV
FLV
VRO
VOB
PS
TS</td><td>H.264 BP/MP/HP</td><td rowspan="2">4096 x 2160</td><td rowspan="2">4096 x 2160: 60
1920 x 1080: 120</td><td>60</td><td rowspan="15">AC3
LPCM
ADPCM(IMA, MS)
AAC
HE-AAC
WMA
Dolby Digital+
MPEG(MP3)
AC-4
OPUS
G.711(A-Law, µ-Law)</td></tr>
<tr><td>HEVC (H.265 - Main, Main10)</td><td>100</td></tr>
<tr><td>Motion JPEG</td><td>3840 x 2160</td><td>30</td><td>80</td></tr>
<tr><td>MPEG4 SP/ASP</td><td rowspan="7">1920 x 1080</td><td rowspan="3">60</td><td rowspan="7">20</td></tr>
<tr><td>1) Window Media Video v9 (VC1)</td></tr>
<tr><td>MPEG2</td></tr>
<tr><td>MPEG1</td></tr>
<tr><td>Microsoft MPEG-4 v1, v2, v3</td><td rowspan="4">30</td></tr>
<tr><td>1) Window Media Video v7 (WMV1), v8 (WMV2)</td></tr>
<tr><td>H.263 Sorenson</td></tr>
<tr><td>VP6</td></tr>
<tr><td>AV1</td><td>3840 x 2160</td><td>120</td><td>80</td></tr>
<tr><td rowspan="3">*.webm</td><td rowspan="3">WebM</td><td>VP8</td><td>1920 x 1080</td><td>60</td><td>20</td><td rowspan="3">Vorbis</td></tr>
<tr><td>VP9 (Profile 0, profile 2 supported)</td><td rowspan="2">3840 x 2160</td><td rowspan="2">120</td><td rowspan="2">80</td></tr>
<tr><td>AV1</td></tr>
<tr><td>*.rmvb</td><td>RMVB</td><td>RV8/9/10 (RV30/40)</td><td>1920 x 1080</td><td>60</td><td>20</td><td>RealAudio 6</td></tr>
</table>

1) M90SF model is not 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 Product'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 Product.
- HEVC codec is only available in MKV / MP4 / TS containers.
- Videos playing on the panel can be shown at lower frame rates than the original sources.

Video decoders

- H.264 FHD is supported up to Level 4.2.
  - Product does not support FMO / ASO / RS.
- H.264 UHD is supported up to Level 5.1.
  - Resolution is changed during video playback (Up to 3840 x 2160 is supported)
  - M50F model is not supported.
- HEVC FHD is supported up to Level 4.1.
- GMC 2 or above is not supported.

(M1ED/M50C/M50D/M70D model)

- VC1 AP L4 is not supported.

  HEVC UHD is supported up to Level 5.1.
  - Resolution is changed during video playback (Up to 3840 x 2160 is supported)

(G8/G9/S9 Series, M80C/M70C/M80D/G85SD/G70D model, Odyssey Ark)

- VC1 AP L4 is not supported.

  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)

(M90SF/G80SD/M80F/LSM7F model)

- 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)

(M1EF/M70F model)

- HEVC UHD is supported up to Level 5.1.
  - Resolution is changed during video playback (Up to 3840 x 2160 is supported)

Audio decoders

- WMA is supported up to 10 Pro 5.1 channels, M2 profile. WMA1, WMA lossless / Voice are not supported.
  - M90SF/M80F/M70F/M50F/LSM7F models 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.

Aspect Ratios and Supported Resolutions

This section shows the aspect ratio and supported resolution by input source.

The information below is applicable to the LSM7F models. For relevant information about other models, visit the Samsung website and refer to the model-specific Product guide.

Checking the Screen Size based on the input signal

You can check the Screen Size based on the input signal from an external device.

The Picture Size is saved separately for each input signal, and when the input signal is switched, the previously saved Picture Size is automatically applied.

Input signal	Picture Size
HDMI (720p)	16:9 Standard, 4:3
HDMI (1080p)	16:9 Standard, 4:3
HDMI (3840 x 2160p)	16:9 Standard
HDMI (2560 x 1080 @ 60Hz)	21:9
USB (720p)	16:9 Standard, 4:3
USB (3840 x 2160p @ 24/30 Hz)	16:9 Standard
USB (3840 x 2160p @ 60 Hz)	16:9 Standard
USB Type-C (720p)	16:9 Standard, 4:3
USB Type-C (1080p @ 60Hz)	16:9 Standard, 4:3
USB Type-C (3840 x 2160p @ 60Hz)	16:9 Standard
USB Type-C (2560 x 1080 @ 60Hz)	21:9

Available Picture Size may differ depending on the external device.

Supported Resolutions for UHD Input Signals

Check the supported resolution for UHD input signals.

- Resolution: 3840 x 2160p

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	-	-	-	O

If Input Signal Plus is set to On

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	O	O	O	O
	10 bit	-	-	O	O

For USB-C, YCbCr 4:2:0 is not supported.

Read Before Connecting a Computer (Supported Resolutions)

Check the resolutions supported for PC input signals.

After connecting a computer to the product, set the computer resolution by referring to the table below. Optimal resolution is 3840 x 2160 @ 60 Hz (applicable to LSM7F models). If you select a resolution not specified in the table, a blank screen may appear or only the remote control sensor may turn on. Make sure you set the resolution by referring to the graphics card user manual and the table below. Note that interlaced scan mode is not supported.

- When the Input Signal Plus feature is enabled, the optimal resolution is 2560 x 1440 @ 120 Hz. When the Input Signal Plus feature is disabled, the optimal resolution is 2560 x 1440 @ 60 Hz.
- If the resolution is set to an unsupported value, the message "Mode Not Supported" may appear or noise may occur on the screen. Make sure you set the resolution to a supported value.

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	75 Hz	57.500	75.000	31.500	- / -
800 x 600	60 Hz	37.879	60.317	40.000	+ / +
800 x 600	75 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	75 Hz	60.023	75.029	78.750	+ / +
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	+ / -

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 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 1080	50 Hz	56.250	50.000	148.500	+ / +
1920 x 1080	60 Hz	67.500	60.000	148.500	+ / +
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	+ / +

List of graphic cards supporting HDR10

HDR10 is accessible only on Windows 10 systems equipped with graphic cards that support Play Ready 3.0 Digital Rights Management (for protected HDR content). Use graphic cards listed below for HDR10.

- NVIDIA GeForce 1000 series or higher
- AMD Radeon™ RX 400 series or higher
- Intel UHD Graphics 600 series or higher

Graphic cards that support hardware-accelerated 10-bit video decoding for HDR video codecs are recommended.

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 Product 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 Product.
  - When the device is subject to electrical variation from obstructions caused by a wall, corner, or office partitioning.
  - When the device is exposed to electrical interference from same frequency-band devices including medical equipment, microwave ovens, and wireless LANs.
- If the problem persists, we recommend you use a wired connection.
  - DIGITAL AUDIO OUT (OPTICAL) port
  - HDMI (ARC) port

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QUICKSET

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AMD FreeSync

AMD FreeSync Premium

AMD FreeSync Premium Pro

This licence may not be supported depending on the model or geographical area. Please refer to the samsung.com website for detailed information regarding FreeSync.

(Europe only)

To access energy labelling information about this product on the European Product Registry for Energy Labelling (EPREL), go to https://eprel.ec.europa.eu/qr/******

where ****** is the product's EPREL registration number. You can find the registration number on the rating label of your product.

(Türkiye only)

To access the energy labelling information of the model :

1. Go to https://www.samsung.com/global/ecodesign_energy
2. Get the model identifier from the energy label of the product and type it in the search box
3. Energy labelling information can be found

Installing the Software

Installing the Software

Samsung Display Manager

Samsung Display Manager is integrated control software that allows you to easily manage various functions of your monitor.

To install the latest version of Samsung Display Manager, download it from the Samsung website (http://www.samsung.com) or the Microsoft Store.

- The Samsung Display Manager icon may not appear depending on the PC system and the product specifications.
- If the shortcut icon does not appear, press the F5 key.

Driver Installation

To install the latest version of the product driver, download it from the Samsung website (http://www.samsung.com).

- You can set the optimum resolution and frequency for this product by installing the corresponding drivers.

Troubleshooting

The following are troubleshooting solutions for each problem.

Picture Issues

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

The screen is flashing or has become dark

If your Product is flickering or dimming sporadically, you may need to disable some of the energy efficiency features.

Disable Brightness Optimisation, Energy Saving Solution, Motion Lighting, or Contrast Enhancer.

- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Brightness Optimisation Try Now

This function may not be supported depending on the model.

- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Energy Saving Solution Try Now
- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Motion Lighting Try Now
- > left directional button > Settings > All Settings > Picture > Expert Settings > Contrast Enhancer Try Now

Run Picture Test. When the tested image quality is normal, check the signal of the connected device.

- > left directional button > Settings > Support > Device Care > Self Diagnosis > Picture Test Try Now

The picture is not bright, or the picture colours do not look clear

If the screen appears too dim, try changing the settings under Reset Picture or disabling Brightness Optimisation, Energy Saving Solution.

- > left directional button > Settings > All Settings > Picture > Expert Settings > Reset Picture Try Now
- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Brightness Optimisation Try Now

This function may not be supported depending on the model.

- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Energy Saving Solution Try Now

Go to Picture and adjust the Picture Mode, Contrast, Brightness, and Sharpness settings.

- > left directional button > Settings > All Settings > Picture > Picture Mode Try Now
- > left directional button > Settings > All Settings > Picture > Expert Settings > Contrast Try Now
- > left directional button > Settings > All Settings > Picture > Expert Settings > Brightness Try Now
- > left directional button > Settings > All Settings > Picture > Expert Settings > Sharpness Try Now
- > left directional button > Settings > All Settings > Picture > Expert Settings > Colour Try Now
- > left directional button > Settings > All Settings > Picture > Expert Settings > Tint (G/R) Try Now

The picture colours look like black and white or do not look the way they should look

If the product's colours or absolute whites/blacks seem to be off, launch Picture Test.

- > left directional button > Settings > Support > Device Care > Self Diagnosis > Picture Test Try Now

If the test results indicate that the problem is not caused by the Product, do the following:

If using a component cable, ensure that the green (Y), blue (Pb), and red (Pr) cables are connected properly. Incorrect connections may cause colour problems or a blank screen.

Component port may not be supported depending on the model.

Check whether Greyscale is set to On.

- > left directional button > Settings > All Settings > General & Privacy > Accessibility > Greyscale Try Now

The Product automatically turns off by itself

If your Product appears to turn off by itself, try disabling some of the Product's energy efficiency functions.

See if Sleep Timer has been enabled. The Sleep Timer automatically turns the Product off after a specified period of time.

- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Sleep Timer Try Now

If the Sleep Timer has not been enabled, see if Auto Power Off, Off Timer or Standby Mode Timer has been enabled and disable it.

- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Auto Power Off Try Now
- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Off Timer Try Now
- > left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Standby Mode Timer Try Now

If your Product is a rechargeable model, it may automatically turn off to protect the battery when the battery temperature rises.

The Product 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, and set-top box to UHD or HD.

Be sure to use an HDMI cable to enjoy high quality videos.

- > left directional button > Connected Devices > Connection Guide > Video Device > HDMI

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

To connect the Product with your PC, make sure that your PC's graphic card supports UHD resolutions.

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.

This function may not be supported depending on the model.

Displayed video looks blurry

If you notice blurring or juddering on the screen, use the Picture Clarity Settings function to resolve the issue.

- > left directional button > Settings > All Settings > Picture > Expert Settings > Picture Clarity Settings Try Now

This function may not be supported depending on the model.

The picture is distorted

The compression of video content may cause picture distortions, especially in fast moving pictures from sports programmes 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 Product (within 3.2 ft) may cause noise on analogue and digital channels.

There is a dotted line on the edge of the screen

Change Picture Size to 16:9 Standard.

- > left directional button > Settings > All Settings > Picture > Expert Settings > Picture Size Settings > Picture Size Try Now

This function may not be supported depending on the model.

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 Product.

Adjust the picture size options on your external device or set the Product to full screen.

- > left directional button > Settings > All Settings > Picture > Expert Settings > Picture Size Settings > Picture Size Try Now

The Subtitle function in the Product menu is deactivated

When an external device is connected with an HDMI or Component cable, the Subtitle function is unavailable. Adjust the subtitle setting on the external device.

Subtitles appear on the Product screen

Turn off the Subtitle function in Subtitle Settings.

- > left directional button > Settings > All Settings > General & Privacy > Accessibility > Subtitle Settings > Subtitle Try Now

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.

- > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Input Signal Plus Try Now

If an input source is connected to the USB Type-C port, the HDR function is not supported even if Input Signal Plus is selected.

This function may not be supported depending on the model.

It's inconvenient that the Now brief runs automatically even when I sleep at night.

Set Night Mode to ON on the Now brief. If Night Mode is turned on, the Now brief does not run automatically when the surroundings are dark.

- Now brief > Now brief Settings > Settings > Night Mode

If you find it inconvenient that the Now brief automatically runs even when the surroundings are bright, turn off the User Detection feature on the Now brief.

If the User Detection feature is turned on, the Now brief automatically runs by analysing ambient noise and movement when the Product is turned off.

- Now brief > Now brief Settings > Settings > User Detection
- > left directional button > Settings > All Settings > Advanced Features > Now brief > Enable with User Detection

The screen turns on automatically and displays information, such as the clock and weather, even when the power is off.

Check that the User Detection feature is not enabled on the Now brief.

The User Detection feature detects ambient noise and movement when the product is turned off and automatically displays the Now brief screen with the clock, weather, and other information.

If you do not want to use the User Detection feature, turn it off.

- Now brief > Now brief Settings > Settings > User Detection
- > left directional button > Settings > All Settings > Advanced Features > Now brief > Enable with User Detection

Sound and Noise Issues

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

How can I connect an audio device to the Product?

The connection method may differ depending on the audio device, such as HDMI (ARC), Bluetooth, and Wi-Fi.

For more information about how to connect an audio device, run Connection Guide.

- > left directional button > Connected Devices > Connection Guide > Audio Device

There is no sound or the sound is too low at maximum volume.

Check the volume control of your Product, and then check the volume control of the external device (cable box or satellite box, DVD, Blu-ray, etc.) connected to your Product.

Check the cable connection between an external device and the Product 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 Product Speaker, check the volume setting.

- > left directional button > Settings > All Settings > Sound > Sound Output Try Now

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 Product is using an HDMI cable.

To listen to computer sound, connect an external speaker to the computer's audio output connector.

If your Product has a headphone jack, make sure there is nothing plugged into it.

Reboot the connected device by disconnecting and then reconnecting the device's power cable.

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 (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.

- > left directional button > Settings > All Settings > Sound > Expert Settings > Digital Output Audio Format > Auto

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

The speakers are making an odd sound.

Run Sound Test.

- > left directional button > Settings > Support > Device Care > Self Diagnosis > Sound Test Try Now

Make sure that the audio cable is connected to the correct audio output connector on the external device.

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

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 Product without obstacle between them. Do not place the wireless router close to the Bluetooth speaker body.

To minimise 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 (ARC).

Whenever a function is used on the Product or the channel is changed, the Product voices the activity. The Product explains in voice-over the video scenes displayed on the screen.

Turn off the Voice Guide function in Voice Guide Settings.

- > left directional button > Settings > All Settings > General & Privacy > Accessibility > Voice Guide Settings > Voice Guide Try Now

The Product 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.

- In case of HDMI ARC connection, make sure that it is connected to the ARC dedicated HDMI port on your Product. However, the ARC can be used only when the Soundbar or A/V receiver supports the ARC feature.

The sound is not heard clearly.

Change to an appropriate sound mode.

- > left directional button > Settings > All Settings > Sound > Sound Mode Try Now

When Intelligent Mode Settings and Adaptive Sound+ (or Adaptive Sound Pro) are turned on, the sound effects are automatically adjusted to the surroundings.

- > left directional button > Settings > All Settings > Advanced Features > Intelligent Mode Settings > Intelligent Mode Try Now

This function may not be supported depending on the model.

To optimise the sound depending on the surroundings, select Adaptive Sound+ (or Adaptive Sound Pro).

- > left directional button > Settings > All Settings > Advanced Features > Intelligent Mode Settings > Adaptive Sound Settings > Adaptive Sound+ Try Now
- > left directional button > Settings > All Settings > Advanced Features > Intelligent Mode Settings > Adaptive Sound Settings > Adaptive Sound Pro Try Now

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 Product and the external device.

When connecting an external speaker such as home theatre via HDMI, make sure it is connected to the HDMI (ARC) port on the Product. Make sure that the > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Anynet+ (HDMI-CEC) is active on your Product. Try Now

This function may not be supported depending on the model.

I want to turn off and on the Product and audio device at the same time.

When you connect the Samsung Soundbar to the Product 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 ARC to the HDMI (ARC) port on the Product, the power turns off and on together.

This function may not be supported depending on the model.

External Device Connectivity Issues

When the Product 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 Product.

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 Product to your PC, read the instructions at PC > Screen Sharing (Wireless) in Connection Guide, and then try to connect.

- > left directional button > Connected Devices > Connection Guide > PC > Screen Sharing (Wireless)

Confirm that the Product and your PC are connected to the same network.

Confirm that the Wi-Fi function is enabled on the Product.

- > left directional button > Settings > All Settings > Connections > Network > Expert Settings > Wi-Fi

To wirelessly connect the Product to your mobile device, read the instructions at Smartphone > Screen Sharing (Smart View) in Connection Guide, and then try to connect.

- > left directional button > Connected Devices > Connection Guide > Smartphone > Screen Sharing (Smart View) Try Now

If the Product 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.

Proper operation cannot be guaranteed if this is lined and used through an external USB hub.

Maximum support for electric current via the USB port is at or under 500 mA. It's not a Product malfunction if the Product operates effectively without external devices or cannot work with a given external device. If there is a problem, please check the operation specifications for any external devices in use.

No screen appears when connecting the Product to an external device.

For more information about how to connect an external device, run Connection Guide.

- > left directional button > Connected Devices > Connection Guide Try Now

Make sure that the external device is connected securely and turned on. Move to Sources to switch to other input sources.

- > left directional button > Connected Devices > Sources

Using HDMI Troubleshooting, you can check the connection to HDMI cable and external devices (takes approximately 2 minutes).

- > left directional button > Connected Devices > Connection Guide > Video Device > HDMI Troubleshooting

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

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 recognised, check the power supply of the PC and then reconnect the HDMI cable between the PC and Product. When the symptom persists, check that the PC is in Sleep mode and then set Input Signal Plus to On.

- > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Input Signal Plus Try Now

This function may not be supported depending on the model.

When the set resolution is not matched, it may cause a blank or flickering screen.

The computer does not wake up through Wake PC.

If the computer screen is blank or the computer is not recognised, check the USB Input Port Setup on the monitor.

- > left directional button > Settings > All Settings > General & Privacy > External Device Manager > USB Input Port Setup

This feature may not be supported, depending on the **Power & sleep** settings on the computer.

This function may not be supported depending on the model.

A special key on the keyboard or mouse is entered automatically.

If the product is connected to a USB Type-C port and then a keyboard or mouse is connected to the USB port of the product, it may cause malfunction due to USB packet handling errors of the graphic card.

If any error occurs, it is recommended to contact the graphic card manufacturer or to connect the keyboard or mouse directly to the computer's motherboard.

The displayed image size does not fit the screen, the image colours are blurred, or the text does not appear clear.

Edit the name of the external device. Especially when PC is connected, check if the device name is edited to PC.

> left directional button > Connected Devices > Sources(HDMI, DisplayPort, USB-C or Thunderbolt) > Press and hold the Select button > Edit

Supported ports and port names may differ, depending on the model.

A computer has been connected, but the Expert Settings option is greyed out.

If the external device name is not set to PC, change the name to PC.

> left directional button > Connected Devices > Sources(HDMI, DisplayPort, USB-C or Thunderbolt) > Press and hold the Select button > Edit

Supported ports and port names may differ, depending on the model.

I want the Product screen to turn off immediately when the connected external device turns off.

To turn off the Product screen immediately, set Standby Mode Timer to Off.

Set a timer to automatically switch the product to standby mode.

> left directional button > Settings > All Settings > General & Privacy > Power and Energy Saving > Standby Mode Timer Try Now

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

The camera does not work in the Product app.

Set USB Port Changing Setup to Auto Loop or Smart Monitor. If this setting is set to USB-C, which is for computers only, the camera will not be recognised by the Smart Monitor app.

Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > USB Input Port Setup > USB Port Changing Setup > Auto Loop or Smart Monitor

This feature is supported when the product is equipped with a built-in camera or is connected to a camera.

The Product's camera does not work on my computer.

Set USB Port Changing Setup to Auto Loop or USB-C. (If this setting condition is met, all USB ports on the Product are recognised by the computer.) If this setting is set to Smart Monitor, the camera will not be recognised by the computer.

Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > USB Input Port Setup > USB Port Changing Setup > USB-C

This feature is supported when the product is equipped with a built-in camera or is connected to a camera.

Models with a built-in camera do not support the connection of an external USB camera.

The camera is not connected.

Make sure it is a supported USB Camera

- Home > left directional button > Connected Devices > Connection Guide > Input Device > USB Camera

Models with a built-in camera do not support the connection of an external USB Camera. If this is the case, connect a mobile camera. To connect a mobile camera, set USB Input Port Setup to USB-C.

- Home > left directional button > Settings > All Settings > General & Privacy > External Device Manager > USB Input Port Setup > USB Port Changing Setup > USB-C

Network Issues

When the Product 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.

> left directional button > Settings > Support > Device Care > Self Diagnosis > Smart Hub Connection Test Try Now Try Now

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 Product'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 Product and router.

If unable to establish a wireless internet connection, connect the Product to the wireless router via a cable.

If the Product 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.

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.

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.
   - > left directional button > Settings > All Settings > Connections > 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 Product's remote control to control external devices that support Anynet+ (HDMI-CEC) and that are connected to the Product 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 Product on or off.

This function may not be supported depending on the model.

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 Product, check and confirm that the Anynet+ (HDMI-CEC) feature is set to On.

- > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Anynet+ (HDMI-CEC) Try Now

Check and confirm that the device’s power cable is securely plugged in.

Check the device's HDMI cable connection.

Anynet+ (HDMI-CEC) cannot function under specific circumstances. (when the Product is scanning channels or performing Reset)

When connecting or disconnecting an HDMI cable, turn the Product off and then back on again.

I want to start Anynet+. I also want the connected devices to turn on when the Product is turned on.

Check if the Anynet+ device is properly connected to the Product, and then select Anynet+ (HDMI-CEC) menu to see if Anynet+ (HDMI-CEC) is set to On.

- > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Anynet+ (HDMI-CEC) Try Now

I want to exit Anynet+. It is inconvenient to turn on other devices because the Product 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 Product, turn off the Anynet+ (HDMI-CEC) function of the device.

- > left directional button > Settings > All Settings > General & Privacy > External Device Manager > Anynet+ (HDMI-CEC) Try Now

When Anynet+ (HDMI-CEC) is turned off, the soundbar connected via the HDMI (ARC) port does not turn off and on together with the Product. To prevent a specific device connected to the Product from turning off automatically, turn off the HDMI-CEC function on a specific device connected to the Product.

The message "Connecting to Anynet+ device..." or "Disconnecting from Anynet+ device" appears on the screen.

You cannot use the remote control when the Product is configuring Anynet+ or switching to the Product viewing screen.

Use the remote control after the Product has completed the Anynet+ configuration or has switched to the Product viewing screen.

The Anynet+ device won't play.

You cannot use the play function when Factory data 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 Product may be lost.

Point the Samsung Smart Remote at the front of the Product, and then press and hold the and buttons simultaneously for 3 seconds or more.

Pairing is not available in M5 series.

To reset a previously connected remote control, press and hold the and buttons simultaneously for more than 3 seconds. The remote control connection is reset.

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 > Remote Control.

    This function may not be supported depending on the model.
- If the remote control has batteries, replace them with new ones.

The mobile remote control does not work.

If the Product cannot be controlled with the previously used mobile remote control, try the following methods:

- Reconnect the Product from the SmartThings app.
  - If the Product is in an offline state in the mobile SmartThings app, use the offline device diagnosis function to reconnect to the Product.
  - If the connection still fails, delete and re-register the Product from the SmartThings app.

    Register the Product using the add-device function in the mobile SmartThings app.
- Check that the Product power cable is plugged in properly.
  - If the Product power cable is not plugged in properly, the mobile remote control will display an error message and may not work.
- Use the mobile remote control close to the Product.
  - The mobile remote control may not work if it is too distant from the Product.
- Scan the QR code on the screen.
  - Press the power button on the back or bottom of the Product, then select mobile remote control from the on-screen menu. Scan the QR code on the screen to restart the mobile remote control.

External devices cannot be operated with the Product remote control.

Check the cable connection between the Product and external devices.

When the symptom persists, set it manually in > left directional button > Connected Devices > Universal Remote Setup.

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

When I turn on the product with the remote control, another device is also turned on.

The infrared remote controls provided by Samsung are compatible each other. However, note that multiple devices can be activated at the same time. If you do not want this happening, use the SmartThings app to manipulate each product.

Apps

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 > Home > 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 Search or Apps. To add frequently used apps to the Home Screen, run the Add to Home feature from Apps.

- > left directional button > Home > Apps > App 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 Product 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 Product 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 Product.

Turn off the Start with Smart Hub Home function in Start Screen Options.

- > left directional button > Settings > All Settings > Advanced Features > Start Screen Options > Start with Smart Hub Home Try Now

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 Product. 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 Product. 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: > Discover Bixby
- Amazon Alexa: > left directional button > Settings > All Settings > Advanced Features > Voice > Amazon Alexa Settings Try Now

- This function and Voice Recognition Solution Partner may not be supported depending on the model or geographical area.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model or geographical area.

Bixby/Alexa answers although I did not call it.

The Product may recognise an ambient noise or everyday conversation as a call to Voice Assistant.

Turn off the Hands-free wake-up function or set the Wake-up Sensitivity to Low.

- > left directional button > Settings > All Settings > Advanced Features > Voice > Bixby Settings > Voice Wake-up
- > Bixby Settings > Voice Wake-up

- This function and Voice Recognition Solution Partner may not be supported depending on the model or geographical area.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model or geographical area.

I spoke "Hi, Bixby/Alexa" but Bixby/Alexa does not answer.

When the Product is far from you or the ambient noise is so loud, the Product may be unable to recognise your voice.

- For best results, you need to be within 10 feet (3-4 m) of your Product. Please look at your Product screen and speak.

Turn on the Voice Wake-up function.

- > Bixby Settings > Voice Wake-up > Hands-free wake-up

This function and Voice Recognition Solution Partner may not be supported depending on the model or geographical area.

The images, buttons, and functions of the Samsung Smart Remote may differ with 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 Product may be lost. Try pairing the remote control with the Product.

Point the Samsung Smart Remote at the front of the Product, and then press and hold the and buttons simultaneously for 3 seconds or more.

To reset a previously connected remote control, press and hold the and buttons simultaneously for more than 3 seconds. The remote control connection is reset.

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 > Remote Control.

    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 Product power cable and then try again after 1 minute and 30 seconds. It may take a while if the voice recognition server is being inspected.

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

I want to see weather information of the desired area.

Say with the area name included.

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

Touch issues

When the Touch feature isn't working, these steps may help resolve the problem.

Touch does not work in some apps.

In apps that do not support touch functionality, control the screen using the on-screen virtual remote. For more information about the virtual remote, refer to "Using the Virtual Remote Control."

This feature is supported by The Moving Style (LSM7F) models only.

The Netflix control bar moves in the opposite direction.

You can move a thumbnail, displayed above the control bar, to a different playback position by dragging and dropping.

If you press and hold the control bar, a circular pointer appears. Drag the pointer left or right, and the control bar will move normally.

After searching on Netflix, the search results do not respond when touched.

Select the desired content by touching it from the search results area, or move the focus to the search results area and then drag up or down to navigate to the desired content.

Other issues

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

The Product is hot.

Watching Product 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 Product.

The bottom, however, may feel hot to the touch after extended use.

Children watching Product need constant adult supervision to prevent them from touching the Product.

This heat, however, is not a defect and does not affect the Product's functionality.

The Product smells like plastic.

This smell is normal and will dissipate over time.

The settings are lost after 5 minutes or every time the Product is turned off.

If Usage Mode is set to Retail Mode, the Product's audio and video settings are automatically reset every 5 minutes.

Change Usage Mode to Home Mode.

- > left directional button > Settings > All Settings > General & Privacy > Usage Mode Try Now

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

The Product is tilted to the side.

Remove the base stand from the Product and reassemble it.

The stand is wobbly or crooked.

Refer to the Quick Setup Guide and make sure that the stand is assembled correctly.

I want to know how to attach and remove the Product stand.

For details on how to attach the stand, refer to the Installation Guide.

To remove the stand, follow the attachment steps in reverse order.

The Installation Guide can be downloaded from the Samsung Electronics website at https://www.samsung.com/support/.

A POP (Product’s internal banner ad) appears on the screen.

Change Usage Mode to Home Mode.

- > left directional button > Settings > All Settings > General & Privacy > Usage Mode Try Now

The Product is making a popping noise.

The expansion and contraction of the Product's outer casing may cause a popping noise.

This does not indicate a product malfunction.

The Product is safe to use.

The Product is making a humming noise.

Your Product utilises high-speed switching circuits and high levels of electrical current. Depending on the Product's brightness level, the Product may seem slightly noisier than a conventional Product.

Your Product has undergone strict quality control procedures that meet our demanding performance and reliability requirements.

Some noise coming from the Product is considered normal and is not an acceptable cause for an exchange or refund.

The screen is off, but I hear noise.

Even when the screen is off, noise may be heard if the product performs tasks in the background. Noise will not be heard after the tasks are completed.

- For example, noise may be heard when SmartThings is operating or the network is reconnected through Wi-Fi

The Product 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 Product operational issues

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

Self Diagnosis

> left directional button > Settings > Support > Device Care > Self Diagnosis Try Now

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.

- Video Test

  Play test videos to check for problems with the screen.

- Sound Test

  Play test sounds to check the sound quality.

- Smart Hub Connection Test

  Check the network connection.

- Bluetooth

  Check whether the Bluetooth module is working normally.

- Light sensor

  Check whether the light intensity sensor is working normally.

- DP Test

  Check the external device signal, signal history and DP cable connection that is functioning abnormally.

- HDMI Test

  Check the external device signal, signal history and HDMI cable connection, and check for an HDMI-CEC connection that is functioning abnormally.

- SW Version Information

  Check the currently installed software version, and update the software to the latest version, if necessary.

- Picture Test

  Use test photos to check for problems with the screen.

- Remote Control

  Check for problems with the Remote Control connection or buttons.

- 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.

- IoT Module

  Check whether the IoT Module is working normally.

- Acceleration Sensor

  Check whether the Acceleration Sensor is working normally.

- Mic Test

  Check whether the microphone module is working normally.

- Battery

  Check for any problem in the battery.

  If a problem occurs with the battery, please contact the nearest service center for assistance. Do not disassemble it.

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.

- > left directional button > Settings > Support > Device Care > Reset Smart Hub Try Now

Reset picture

Resets current picture settings to the default settings.

- > left directional button > Settings > All Settings > Picture > Expert Settings > Reset Picture Try Now

Reset sound

Resets current sound settings to the default settings.

- > left directional button > Settings > All Settings > Sound > Expert Settings > Reset Sound Try Now

Getting Support

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

Finding the contact information for service

> left directional button > Settings > Support > *About the Smart Monitor Try Now

You can view the address of the Samsung website, the call centre phone number, your Product's model number, your Product'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 Product.
- 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.
- *: The menu name may differ depending on the model.

Getting support through Remote Management

> left directional button > Settings > Support > Remote Management Try Now

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

- This function requires an network connection.

Checking the Calibration Report

Home > left directional button > Settings > Support > Calibration Report

Show measurement results and calibration status.

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

Requesting service

Home > left directional button > Settings > Support > Device Care > Request Support Try Now

You can request service when you encounter a problem with the Product. 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 Centre will contact you to set up or confirm your service appointment.

You must agree to the terms and conditions for the service request.

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

This function requires an network connection.

Accessibility Guidance

Provides a menu and a remote control guide that aid the visually impaired.

Menu Learning Screen

Learn the menus on the Product screen. Once enabled, your Product will tell you the structure 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 upwards. There are buttons at the top of the remote control and no buttons at the bottom.

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 three buttons below the button on the Samsung Smart Remote, the left one is the button, the center 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.
- Of the 2 buttons below the button on the Remote Control that comes with M5 Series, the left one is the button and the right one is the button.

- There is a button with two large overlapping circles below the two (or three) buttons at the top of the remote control. The inner circle is the Select button, and the outer circle is the four-way (up/down/left/right) directional button.
- Underneath the directional button are 3 buttons, one on the left, one on the right, and one in the centre. The one on the left is the ↩ button and the one on the right is the ⏯ button. The round button in the middle is the ⌂ button.
- Underneath the ⌂ button are 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.

  This 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

On the Samsung Smart Remote or Remote Control, there are 2 thin horizontal rocker buttons next to each other located 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.

You can turn on or turn off the accessibility functions such as Voice Guide, Audio Description, Audio Subtitles, Auto Picture Off, Magnification, High Contrast, Relumino Mode, Zoom Menu and Text, Greyscale, Colour Inversion, SeeColors Mode, Subtitle(or Caption), Sign Language Zoom, Slow Button Repeat, Auto Menu Sort, and you can move to the *Learn the Smart Monitor Remote, *Menu Learning Screen, Multi-output Audio, and Accessibility Settings pages.

The menu name may differ depending on the model.

Running the Accessibility menu functions using the General menu

Home > left directional button > Settings > All Settings > General & Privacy > Accessibility

Try Now

You can also go to the Accessibility menu from the Product settings menu. This provides more options, for example, to change the speed of Voice Guide.

The Product will not verbalize this menu unless Voice Guide is already turned on.

1. Press the Home button.
2. Press the left directional button, and then press the up and down directional button to navigate to Settings.
3. Press the Select button, and press All Settings to open the menu. Press Select to load the Product'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 *Smart Monitor Background Volume.

   *: The menu name may differ depending on the model.

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. (> left directional button > Settings > All Settings > Advanced Features > Voice > Voice Assistant) Try Now

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

To use Bixby, the Product must be set up and tuned and must be connected to the network. You can connect the Product 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 Product. 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 Product must be connected to the network.

To speak a command, press and hold the button (located near the top of the Samsung Smart Remote, directly below the small LED (microphone) and above the directional button) and say the command, and then release the button. The Product 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 Video Description on

  Press the button on the Samsung Smart Remote, and then say "**Video Description on**".

- Turn High Contrast on

  Press the button on the Samsung Smart Remote, and then say "**High Contrast on**".

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

Learning about the Accessibility menu functions

- Voice Guide Settings

  Provides voice guides to make it easier for the visually impaired to use the Product. Voice guide supports basic operations such as changing channels and adjusting the volume, 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 Subtitles Settings

  This feature is intended for visually impaired viewers and audibly reads captions displayed on video content. You can change the volume or speed of audible captions.

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

- Auto Picture Off

  Turn off the Product 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 Product 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.

- 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 Settings

  This feature increases the contrast and brightness of the screen and emphasises 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 HDMI. It may not be available for some videos.

  This input signal may differ depending on the model and geographical area.

  – Relumino Mode

    Enable or disable the Relumino Mode feature.

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

  – Intensity

    Adjusts the contrast, brightness, and emphasis of shape edges and outlines on the screen.

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

  – Edge Color

    Change the edge colour.

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

  – Together Mode

    Shows the screen displayed when Relumino Mode is turned on and the screen displayed when the mode is turned off, side by side simultaneously.

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

- Zoom Menu and Text

  Enlarges the key elements of the menu.

- Greyscale

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

  If Greyscale is on, some Accessibility menus are not available.

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

- Colour Inversion

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

  If Colour Inversion is on, some Accessibility menus are not available.

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

- SeeColors Mode

  This feature helps users with colour blindness experience richer colours.

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

  When SeeColors Mode is in use, some menus are disabled.

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

- *Learn the Smart Monitor 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 Product, but when any other button is pressed the Product 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 Product operation. Press the ↩ button twice to exit *Learn the Smart Monitor Remote.

  *: The menu name may differ depending on the model.

- Menu Learning Screen

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

- Subtitle Settings

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

  When watching a channel on an external device such as a set-top box and cable box, turn on the subtitle function on the device. For more information, contact your service provider.

- Sign Language Zoom Settings

  You can zoom in the sign language screen when the programme 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.

- Multi-output Audio

  You can turn on both the Product 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 Product speaker without affecting the volume of the Product speaker, allowing both the hearing impaired and their families to listen to the Product at comfortable sound levels.

  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.

- **Accessibility Shortcut Settings**

  Set the accessibility shortcut to activate when the Volume button is pressed and held.

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

- **Time to Take Action**

  Choose how long messages, like pop-ups, stay on screen before you take action.

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

- **Moving Text and Image**

  Some screen effects may be limited, but this can be helpful for those sensitive to screen motion.

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

Using the Product 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 centre 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.

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 centre 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 programme information

When watching Product, press the Select button to view programme information which then appears at the top of the screen. Voice Guide will say programme subtitles if they are available. To view more detailed programme information, press and hold the Select button. Voice Guide will say more details such as a synopsis of the programme.

Press the left or right directional button to see what you can watch next on the same channel. Press the up or down directional button to move to other channels and see which programmes are currently being broadcast on them.

Press ↩ to go back or close the programme details.

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

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 Product.

- Some Smart Hub services are for pay services.
- To use Smart Hub, the Product must be connected to the network.
- 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 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: Samsung Account, Search, Samsung Daily+, Game, Home, Settings, Privacy Choices.

- 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 Product settings or external devices, search, and apps.

- 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".

- Search

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

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

- **Ambient**

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

  To return to Product mode from Ambient mode, press > the left directional button > Home. Press the button to turn off the Product.

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

  For more information about **Ambient** mode, refer to 'Using Ambient mode'

- **Art**

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

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

  For more information, refer to "About the Art Home screen".

- **Samsung Daily+**

  Provides useful services, such as home training, remote work and commerce, allowing users to conveniently experience different lifestyles.

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

  For more information about **Samsung Daily+**, refer to "About the Samsung Daily+ Home screen".

- **Game**

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

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

  For more information about **Game**, refer to "Using Samsung Gaming Hub".

- **Home**

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

  > For more information about **Home**, refer to "Using the Home Function".

- **Settings**

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

  > For more information about **Menu**, refer to "About the Settings Home Screen".

- **Privacy Choices**

  From your Product, 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**. Try 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** > **Reset Smart Hub**). Try Now

Launching the User guide

Open the user manual embedded in your Product.

> left directional button > Settings > Support > Tips and User Guides > Open User guide

Try Now

You can view the embedded User guide containing information about your Product's key features.

Alternatively, you can download a copy of the User guide from Samsung's website (https://www.samsung.com).

Words in blue (e.g., Internet) indicate a menu item.

The User guide'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, Site Map, and Index.

The User guide contains a section called "**Learn the Smart Monitor 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 User guide, pressing the buttons on the remote control will not affect the Product.

Using Bixby

Set Voice Assistant to Bixby. A guide to using Bixby to control your Product.

To use Bixby, your Product 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. (> left directional button > Settings > All Settings > Advanced Features > Voice > Voice Assistant) Try Now
- The supported language may differ depending on the geographical area.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model or 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 Product screen. Say a command, and then release the button. The Product provides feedback on how it understands the command, and then performs the commanded task.

- If the Product does not understand the command, try again with more precise pronunciation.
- This function may not be supported depending on the model or geographical area.
- You can find a detailed description of the voice commands at Discover Bixby. Press the button. The icon appears at the bottom right of the screen. Press the Select button to go to the Discover Bixby screen.
- The images, buttons, and functions of the Samsung Smart Remote may differ with the model or geographical area.