











Remote Control and Peripherals

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

About the Samsung Smart Remote

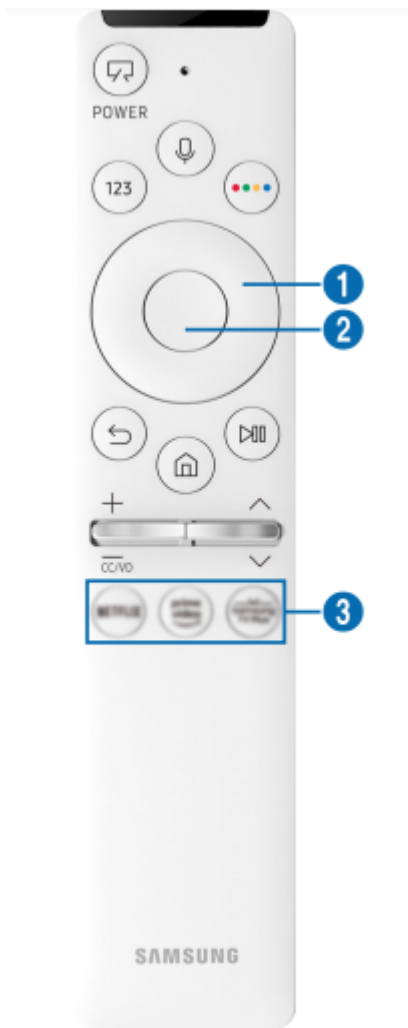
Learn about the buttons on the Samsung Smart Remote.













Button	Description
 (Voice Assistant)	Runs Voice Assistant. Press and hold the button, say a command, and then release the button to run Voice Assistant.
 (Color - Number button)	<p>Each time you press this button, the colored buttons window and the virtual numeric pad are displayed alternately.</p> <ul style="list-style-type: none"> 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 to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc. <p> If the Color Button appears with a number strip on the screen, select the Color Button and then select a specific color by using the directional button (up, down, left, right). Use this to access additional options that are specific to the feature in use.</p>
 (Ambient Mode)	<p>In TV mode, press the button to enter Ambient Mode.</p> <p>If you press the button when the TV is turned off, the TV turns on in Ambient Mode.</p>
 Directional button (up, down, left, right)	Use to navigate the menu or move the focus to highlight items on the Home Screen.
 Select	Selects or runs a focused item. When pressed while you are watching a broadcast program, detailed program information appears.
 (Return)	Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a program, the previous channel appears.
 (Smart Hub)	Press to return to the Home Screen.
 (Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.
+/- (Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 1 second or more, the Accessibility Shortcuts appears.
^/∨ (Channel)	<p>Move the button up or down to change the channel. To see the Guide screen, press the button.</p> <p>Press and hold the button up or down to quickly change the channel.</p>
 (Launch app button)	Launch the app indicated by the button.

About the Samsung Smart Remote (The Frame)

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

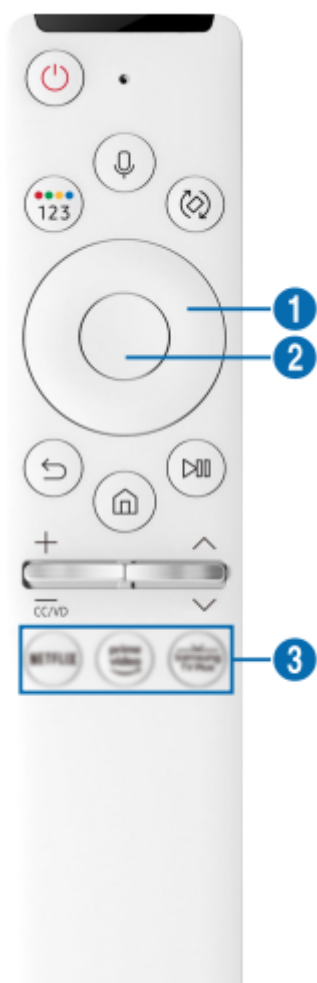















Button	Description
 (Power)	When watching TV, press to switch to Art mode. In Art mode, press to switch to watching TV. Press and hold to turn off the TV completely. <i>✎</i> When the TV turns off and on again, the last used mode appears.
 (Voice Assistant)	Runs Voice Assistant. Press and hold the button, say a command, and then release the button to run Voice Assistant.
 (Number button)	Press to bring up the virtual numeric pad on the screen. Use the numeric keypad to enter numeric values. Select numbers and then select Done to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc.
 (Color button)	When pressed, colored buttons appear on the screen. Use this button to access additional options that are specific to the feature in use. <i>✎</i> To immediately set Brightness while enjoying Art mode, press the button.
 Directional button (up, down, left, right)	Use to navigate the menu or move the focus to highlight items on the Home Screen.
 Select	Selects or runs a focused item. When pressed while you are watching a broadcast program, detailed program information appears.
 (Return)	Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a program, the previous channel appears.
 (Smart Hub)	Press to return to the Home Screen. Press in Art mode to switch to TV mode.

 (Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.
+/- (Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 1 second or more, the Accessibility Shortcuts appears.
^/∨ (Channel)	Move the button up or down to change the channel. To see the Guide screen, press the button. Press and hold the button up or down to quickly change the channel.
 (Launch app button)	Launch the app indicated by the button.

About the Samsung Smart Remote (The Sero)

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



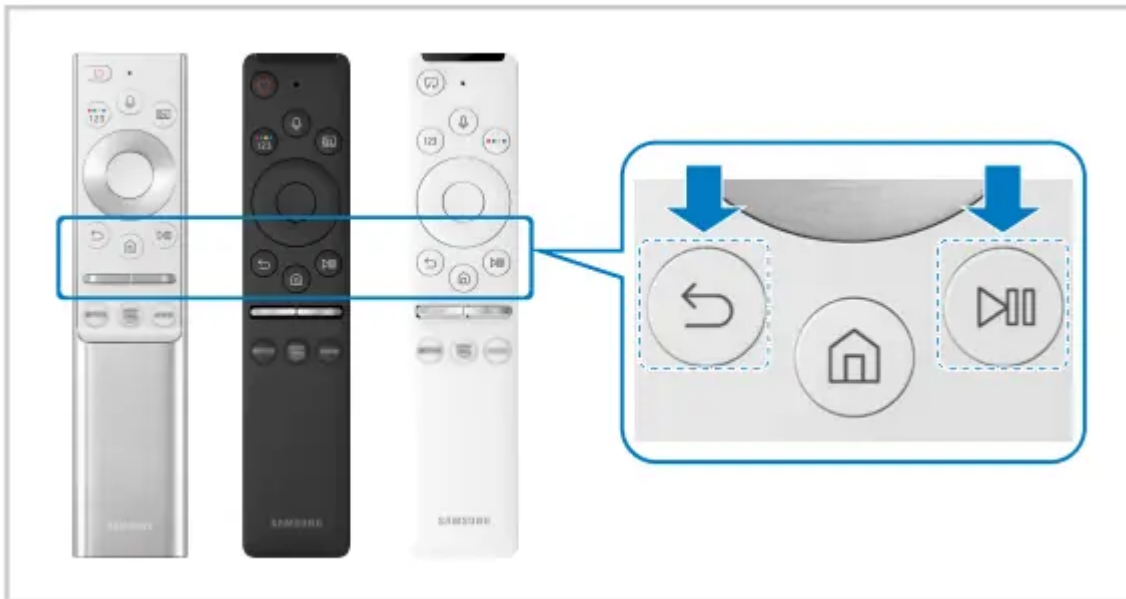
Button	Description
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 (Color - Number button)	<p>Each time you press this button, the colored buttons window and the virtual numeric pad are displayed alternately.</p> <ul style="list-style-type: none"> Use this button to access additional options that 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 to enter a numeric value. Use to change the channel, enter a PIN, enter a ZIP code, etc. <p> If the Color Button appears with a number strip on the screen, select the Color Button and then select a specific color by using the directional button (up, down, left, right). Use this to access additional options that are specific to the feature in use.</p>
 (Rotate)	Press the button to rotate the screen.
 Directional button (up, down, left, right)	Use to navigate the menu or move the focus to highlight items on the Home Screen.
 Select	Selects or runs a focused item. When pressed while you are watching a broadcast program, detailed program information appears.
 (Return)	<p>Press to return to the previous menu. When pressed for 1 second or more, the running function is terminated. When pressed while you are watching a program, the previous channel appears.</p> <p>When pressed for over 1 second in Portrait Mode, the content screen only for Portrait Mode appears.</p>
 (Smart Hub)	Press to return to the Home Screen.
 (Play/pause)	When pressed, the playback controls appear. Using these controls, you can control the media content that is playing.
 (Volume)	Move the button up or down to adjust the volume. To mute the sound, press the button. When pressed for 1 second or more, the Accessibility Shortcuts appears.
 (Channel)	<p>Move the button up or down to change the channel. To see the Guide screen, press the button.</p> <p>Press and hold the button up or down to quickly change the channel.</p>
 (Launch app button)	<p>Launch the app indicated by the button.</p> <p> This button is not supported in the BST model.</p>

Quick Guides

Connecting the Samsung Smart Remote to the TV

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

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



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

For more information about the Samsung Smart Remote that comes with the QLED TV (except for Q50R model) and The Serif, refer to "About the Samsung Smart Remote (QLED TV and The Serif)."

For more information about the Samsung Smart Remote that comes with the UHD TV, refer to "About the Samsung Smart Remote (UHD TV)."

For more information about the Samsung Smart Remote that comes with The Frame, refer to "About the Samsung Smart Remote (The Frame)."

Guide

Learn how to use various features.

Connections

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


Connection Guide

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


[Home](#) > [Source](#) > [Connection Guide](#) [Try Now](#)


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

- Audio Device: HDMI (eARC), Optical, Bluetooth, Wi-Fi, Wi-Fi Speaker Surround Setup
- Video Device: HDMI
- Smartphone: Screen Sharing (Smart View), SmartThings, Apple AirPlay, NFC on TV, Tap View
- PC: HDMI, Screen Sharing (Wireless), Apple AirPlay
- Input Device: Remote Control, Keyboard, Mouse, USB Gamepad, USB Camera, Bluetooth Device
- Game Console: HDMI
- External Storage: USB Flash Drive, Hard Disk Drive (HDD)

 The connection method and available external devices may differ depending on the model.


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

 Using HDMI Troubleshooting, you can check the connection to HDMI cable and external devices (takes approximately 2 minutes).

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

Connecting an Antenna

You can connect a coaxial cable to your TV.

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

Connecting to the Internet

You can get access to the Internet through your TV.


 >  [Settings](#) > [General](#) > [Network](#) > [Open Network Settings](#) 

Configure network settings to connect to an available network.

Establishing a wired Internet connection

 >  [Settings](#) > [General](#) > [Network](#) > [Open Network Settings](#) > [Wired](#)

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

 If the TV does not automatically connect to the network, refer to "Network Issues" in "Troubleshooting."

✎ Use a CAT 7 (*STP type) cable for the connection. (100/10 Mbps)

* Shielded Twisted Pair

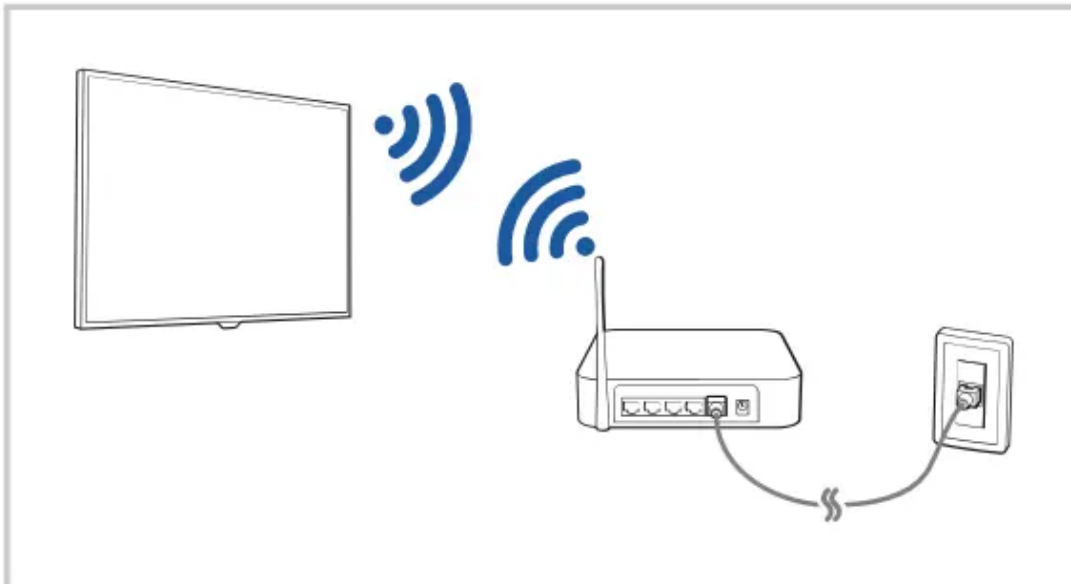
✎ The TV will not be able to connect to the Internet if your network speed is below 10 Mbps.

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

Establishing a wireless Internet connection

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 screen. See the wireless access point's user manual for more information.

🏠 > ⚙️ **Settings** > **General** > **Network** > **Open Network Settings** > **Wireless**



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

✎ If no wireless access point is found, select Add Network at the bottom of the list and enter the network name (SSID).

✎ if your wireless access point has a WPS or PBC button, select Use WPS at the bottom of the list, and then push the WPS or PBC button on your access point within 2 minutes. The TV will connect automatically.

✎ To view or delete previously connected network names (SSIDs), move the focus to Manage Saved Networks, and then press the Select button.

Checking the Internet connection status

 >  [Settings](#) > [General](#) > [Network](#) > [Network Status](#) 

View the current network and Internet status.

Resetting Your Network


 >  [Settings](#) > [General](#) > [Network](#) > [Reset Network](#) 

Restore the network settings to the factory default.

Turning on the TV with a mobile device

 >  [Settings](#) > [General](#) > [Network](#) > [Expert Settings](#) > [Power On with Mobile](#)

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


 This function is available with a mobile device connected to the TV through the SmartThings app or the Apple AirPlay function. Apple AirPlay may not be supported depending on the model or geographical area.

Connecting an IP control device to the TV

 >  [Settings](#) > [General](#) > [Network](#) > [Expert Settings](#) > [IP Remote](#)

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

 To use this function, Power On with Mobile must be turned on.

 Turning this feature on may allow other IP control devices to control your TV. We recommend turning this feature on only if an authorized third-party custom controller is installed and configured specifically for a Samsung TV and if your Wi-Fi network is password protected.





 This function may not be supported depending on the model.

Connection Cables for External Devices

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

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



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


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


Switching between external devices connected to the TV


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

 >  **Source**

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

 To control a device (Blu-ray player, game console, etc.) that supports universal remote control with the TV's remote control, connect the device to an HDMI port on the TV, and then turn on the device. The output displayed on the TV is automatically switched to the output of the device or you can universal remote control for the device automatically. For more information, refer to "Controlling External Devices with a Samsung Remote Control - Using the Universal Remote."

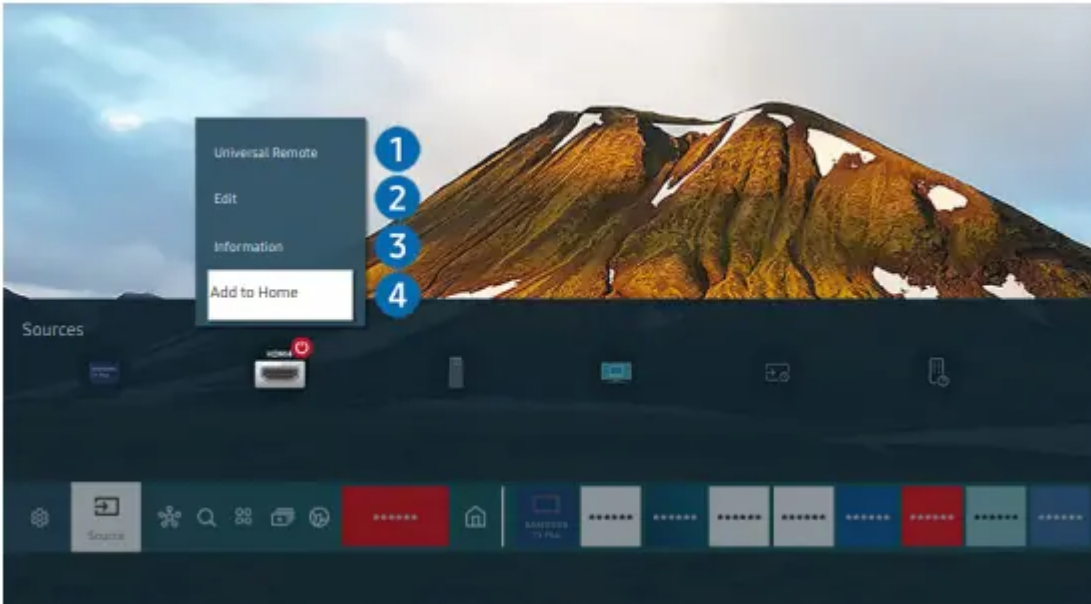
 When a USB device is connected to the USB port, a pop-up message appears that lets you switch easily to the media content listed on the device.

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

Editing the name and icon of an external device

 >  **Source**

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



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

1. Move the focus to a connected external device.
2. Press the up directional button.

The following functions become available: Available functions may differ depending on the port type.

1. Universal Remote

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

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

For more information, refer to "Controlling External Devices with a Samsung Remote Control - Using the Universal Remote."

2. Edit

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

3. Information


You can view detailed information about an external device.


4. Add to Home

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

Connection Notes

When connecting an external device, note the following:

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

 The number of external device connectors, and their names and locations may differ with the manufacturer

Connection notes for HDMI

- The following types of HDMI cables are recommended:
 - High Speed HDMI Cable
 - High Speed HDMI Cable with Ethernet
 - Premium High Speed HDMI Cable
 - Premium High Speed HDMI Cable with Ethernet
 - Ultra High Speed HDMI Cable
- Use an HDMI cable with a thickness of 0.66 inches (17 mm) or less.
- Using a non-certified HDMI cable may result a blank screen or a connection error.
- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- This TV does not support HDMI Ethernet Channel. Ethernet is a Local Area Network (LAN) built with coaxial cables standardized by the IEEE.
- Use a cable shorter than 10 feet (3 m) to get the best UHD viewing quality.
- Many computer graphics adaptors do not have HDMI ports, but have DVI or DisplayPort ports instead. If your PC does not support HDMI video out, connect your PC with a DVI to HDMI or HDMI to DisplayPort cable.
- When the TV is connected to an external device, such as a DVD/BD player or a set-top box via HDMI, power sync mode will be automatically activated. In the power sync mode, the TV continues to detect and connect external devices via HDMI cable. This function can be deactivated by removing the HDMI cable of the connected device.






 This function may not be supported depending on the model.


Connection notes for computers

- For the resolutions supported by the TV, refer to "Read Before Connecting a Computer (Supported Resolutions)."
- If you want to connect your PC and TV wirelessly, both of them must be connected to each other on the same network.

- When sharing content with other network-based devices, such as those in an IP (Internet Protocol) storage system, sharing may not be supported due to the network's configuration, quality, or functionality, for example, if the network has an NAS (Network-Attached Storage) device.

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.
Windows key	Displays the TV settings
Enter key	Selects or runs a focused item
ESC key	Returns to the previous screen
F1 / F2 / F3 / F4 key	Color buttons —  /  /  / 
F5 key	Displays the Home Screen
F6 key	Displays the Source screen
F7 key	Displays the Channel List
F8 key	Mutes the sound
F9 / F10 key	Adjusts the volume
F11 / F12 key	Changes the channel
Page Up / Page Down	Scrolls a web page displayed by the Internet app.
Left-click	Available only in the Internet app. You can click a menu or link to start a function as you do on a PC.
Right-click	Available only in the Internet app. You can use the following functions:  The options displayed in the menu may differ depending on the selected item. <ul style="list-style-type: none"> • Open • Open Link in New Tab • Enable Scroll Mode

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

Setting up the input devices

 >  [Settings](#) > [General](#) > [External Device Manager](#) > [Input Device Manager](#)

- Keyboard Settings

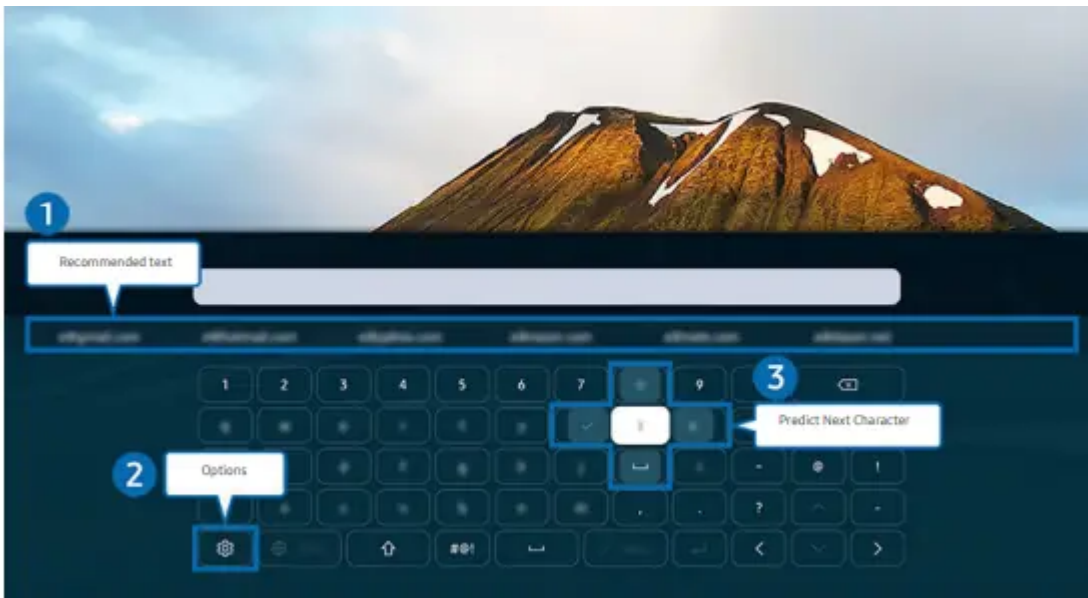
You can set up the keyboard with the Keyboard Language and Keyboard Type functions.

- Mouse Settings

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

Entering Text using the On-Screen Virtual Keyboard

Use the virtual keyboard to enter text on your TV.



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

1. Recommended text

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

2. Options

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

The options available may differ depending on the function running currently.

- Recommended text
- Reset Recommended Text Memory
- Accented Character Preview
- Predict Next Character (when using direction buttons)
- Language

3. Predict Next Character

Each time you type a character on the virtual keyboard, the next characters predicted to be typed are displayed. You can use the directional buttons on the remote control to select one.

Connecting a Remote PC

Provides Remote Desktop Connection (RDP) for remotely connecting to a PC running on Windows and Virtual Network Computing (VNC) for a PC running on Mac. To remotely connect to a PC, you must enter the IP address of the remote PC or select a saved Enter a correct username and

password and select a correct protocol. If there is any computer that can be accessed via the same network, the found IP and protocol are displayed.

• **Windows OS:**


- 1) Right-click the My Computer icon on Desktop or Windows Explorer and then click Properties.
- 2) Click Advanced System Settings. The System Properties window appears.
- 3) Click the Remote tab and then select the Allow Remote Assistance connections to this computer.

• **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.

Playing Multimedia Content on a Remote PC

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

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


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

• **Windows OS:**

1. Run Windows Explorer and then move to the folder to share.
2. Right-click the folder and then click Properties.
3. After the Properties window appears, click the Sharing tab and then click Advanced Sharing.
4. After the Advanced Sharing window appears, select the Share this folder check box.

• **Mac OS:**

1. Select Menu System Preferences and then click Sharing.
2. Select the File Sharing check box.
3. To add a folder to share, click the Add+ button at the bottom.
4. Select a folder and then click Add+.

 It is recommended to connect the wired network because the screen or sound may be interrupted depending on the network condition.

When playing a video file via a remote computer, the screen or sound breaking may be encountered.

Using Microsoft 365

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

Run the browser in full-screen mode.

URL modifications is impossible in the Microsoft 365 page.

Adding the Cloud Service

Select the Add Cloud Service icon. Use the bookmarking function of the browser, you can add or delete the cloud service link to or from PC on TV.

To add the cloud service, you must be signed in to your Samsung account.

The number of cloud services that can be added to PC on TV is limited.

Troubleshooting

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

Picture Issues

Testing the picture:

-> Settings -> Support -> Device Care -> Self Diagnosis -> Picture Test Try Now

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

1. Flickering and Dimming

If your TV is flickering or dimming sporadically, you may need to disable some of the energy features.

Disable Brightness Optimization, Brightness Reduction, Motion Lighting, or Contrast Enhancer.

- -> Settings -> General -> Power and Energy Saving -> Brightness Optimization
- -> Settings -> General -> Power and Energy Saving -> Brightness Reduction
- -> Settings -> General -> Power and Energy Saving -> Motion Lighting
- -> Settings -> Picture -> Expert Settings -> Contrast Enhancer

Run Picture Test. When the tested image quality is normal, check the signal of the connected device.

- -> Settings -> Support -> Device Care -> Self Diagnosis -> Picture Test

2. Component Connections and Screen Color

- If the color on your TV screen is not correct or the black and white colors are off, run Picture Test. -> Settings -> Support -> Device Care -> Self Diagnosis -> Picture Test. If the test results indicate that the problem is not caused by the TV, do the following:
- When using the One Connect Box, confirm that its video input connectors are connected to the correct external device video output connectors.
- When using the component cable, confirm that the green (Y), blue (Pb), and red (Pr) jacks are plugged into their proper connectors.
- For more information about how to connect an external device, run Connection Guide.
- -> Source -> Connection Guide

3. Screen Brightness

If the colors on your TV are correct but just a little too dark or bright, try adjusting the following settings first

- -> Settings -> Picture -> Expert Settings -> Contrast
- -> Settings -> Picture -> Expert Settings -> Brightness
- -> Settings -> Picture -> Expert Settings -> Sharpness
- -> Settings -> Picture -> Expert Settings -> Color
- -> Settings -> Picture -> Expert Settings -> Tint (G/R)

4. Blurring, or Juddering:

If you notice blurring or juddering on the screen, use the Picture Clarity Settings function to resolve the issue.

- -> Settings -> Picture -> Expert Settings -> Picture Clarity Settings

5. Unwanted Powering Off

If your TV appears to turn off by itself, try disabling some of the TV's energy efficiency functions.

See if Sleep Timer has been enabled. The Sleep Timer automatically turns the TV off after a period of time.

- -> Settings -> General -> System Manager -> Time -> Sleep Timer

If the Sleep Timer has not been enabled, see if Auto Power Off or Off Timer has been enabled and disable it.

- -> Settings -> General -> Power and Energy Saving -> Auto Power Off

- -> Settings -> General -> System Manager -> Time -> Off Timer

In case of The Sero, check the options, such as The Sero Auto On/Off and Off Timer in the SmartThings app on your mobile device. The Sero Auto On/Off is intended to automatically turn on The Sero when your mobile device approaches and to automatically turn off it after a time when your mobile device gets far away from it.

6. Problems Powering On

- If you are having problems powering on your TV, there are a number of things to check before calling the service department.
- Confirm that the TV's power cord is connected correctly at both ends and that the remote control is operating normally.
- Make sure that the antenna cable or cable TV cable is firmly connected.
- If you have a cable box or satellite box, Confirm that it is plugged in and turned on.
- In case of a model that supports One Connect Box, check the One Invisible Connection or One Connect Cable between the TV and One Connect Box.

7. Unable to find a Channel

- If your TV is not connected to a cable box or satellite box, run Auto Program. -> Settings -> Broadcasting -> Auto Program
- When using a broadcast receiver such as set-top box and IPTV, check the connection to the TV. -> Source -> Connection Guide
- When the symptom persists, contact your service provider.

8. The TV image does not look as good as it did in the store

- Store displays are tuned to a digital UHD channel or HD channel.
- Change the output resolution of your devices, such as digital broadcast receiver, IPTV, and set-top box to UHD or HD.
- Be sure to use an HDMI cable to enjoy high quality videos.
 - -> Source -> Connection Guide -> Video Device -> HDMI
- To connect the TV with your PC, make sure that your PC's graphic card supports UHD resolutions.
- For more information about the supported UHD resolutions, refer to "Supported Resolutions for UHD Input Signals."

9. The picture is distorted

- The compression of video content may cause picture distortions, especially in fast moving pictures from sports programs and action movies.
- If the signal reception is weak or poor, screen distortion may be visible but it is not a malfunction.

- Mobile phones used close to the TV (within 3.2 ft) may cause noise on analog and digital channels.

10. The color is wrong or missing

- If you're using a Component connection, make sure that the Component cables are connected to the correct jacks.
- Incorrect or loose connections may cause color problems or a blank screen.

11. The color is poor or the picture is not bright enough

Go to Picture and then adjust the Picture Mode, Brightness, Sharpness, and Color settings.

- -> Settings -> Picture -> Picture Mode
- -> Settings -> Picture -> Expert Settings -> Brightness
- -> Settings -> Picture -> Expert Settings -> Sharpness
- -> Settings -> Picture -> Expert Settings -> Color

See if Brightness Reduction has been enabled.

- -> Settings -> General -> Power and Energy Saving -> Brightness Reduction

Try resetting the picture.

- -> Settings -> Picture -> Expert Settings -> Reset Picture

12. There is a dotted line on the edge of the screen

- Change Picture Size to 16:9 Standard.
 - -> Settings -> Picture -> Picture Size Settings -> 16:9 Standard

13. The picture is black and white

- Use a composite cable when you connect AV equipment to the TV.
- If you are using the composite cable, connect the video cable (Yellow) to the VIDEO (Yellow / Green) input port.
- Check whether Grayscale is set to On. -> Settings -> General -> Accessibility -> Grayscale

14. The picture won't display in full screen

- HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content.
- Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV.
- Adjust the picture size options on your external device or set the TV to full screen. -> Settings -> Picture -> Picture Size Settings -> Picture Size

15. The Caption function in the TV menu is deactivated

- When an external device is connected with an HDMI or Component cable, the Caption function is unavailable. Adjust the caption setting on the external device.

16. Captions appear on the TV screen

- Turn off the Caption function in Caption Settings. -> General -> Accessibility -> -> Caption Settings -> Caption

17. The HDR of the connected external device turns off

- Expand the reception range of the corresponding HDMI input signal in Input Signal Plus. -> Settings -> General -> External Device Manager -> Input Signal Plus

If the test picture does not appear or there is noise or distortion, the TV may have a problem. Contact Samsung's Call Center for assistance.

If the test picture is displayed properly, there may be a problem with an external device. Please check the connections.

If the problem persists, check the Signal Information or refer to the external device's user manual.

Sound and Noise Issues

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

Testing the sound

-> Settings -> Support -> Device Care -> Self Diagnosis -> Sound Test. If the TV plays the Sound Test melody without distortion, there may be a problem with an external device or the broadcast signal's strength.

1. How can I connect an audio device to the TV?

- The connection method may differ depending on the audio device, such as HDMI (eARC), Optical, Bluetooth, and Wi-Fi.
- For more information about how to connect an audio device, run Connection Guide. -> Source -> Connection Guide -> Audio Device

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

- Check the volume control of your TV, and then check the volume control of the external device (cable box or satellite box, DVD, Blu-ray, etc.) connected to your TV.
- Check the cable connection between an external device and the TV and then try cable connection again.

3. The picture is good but there is no sound.

- Set Sound Output to TV Speaker. -> Settings -> Sound -> Sound Output
- If you are using an external device, check the device's audio output option.

- For example, you may need to change your cable box's audio option to HDMI if the box connected to your TV is using an HDMI cable.
- To listen to computer sound, connect an external speaker to the computer's audio output connector.
- If your TV has a headphone jack, make sure there is nothing plugged into it.
- Reboot the connected device by disconnecting and then reconnecting the device's power 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.

4. No sound is heard.

- Check whether Digital Output Audio Format is set to Pass-Through.
- If you select the Pass-Through option to use an AV receiver that does not support Dolby Digital+, no sound is output with Dolby Digital+ content.
- It is recommended to set Digital Output Audio Format to Auto when the connected receiver supports only the limited audio formats. -> Settings -> Sound -> Expert Settings -> Digital Output Audio Format -> Auto

5. The speakers are making an odd sound.

- Run Sound Test. -> Settings -> Support -> Device Care -> Self Diagnosis -> Sound Test
- Make sure that the audio cable is connected to the correct audio output connector on the external device.
- For antenna or cable connections, check the Signal Information. A low signal level may cause sound distortions. -> Settings -> Support -> Device Care -> Self Diagnosis -> Signal Information

6. The sound is interrupted.

- The sound may frequently be interrupted when a Bluetooth speaker is used. Make sure that the Bluetooth speaker and the wireless access point are on a straight line, and the Bluetooth speaker is placed as close as possible to the TV.
- To minimize interruptions, we recommend a wireless access point that uses a 5 GHz frequency. 5 GHz may not be available depending on the model.
- When the symptom persists, it is recommended to use wired connection such as HDMI eARC and Optical.

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

- Turn off the Voice Guide function in Voice Guide Settings. -> Settings -> General -> Accessibility -> Voice Guide Settings -> Voice Guide

8. The TV audio is not being played through the AV receiver.

Check the A/V receiver's power supply and its settings.

- When connecting the optical cable between the TV and A/V receiver, make sure that the sound output is set Optical on your TV.
- In case of HDMI eARC connection, make sure that it is connected to the eARC dedicated HDMI port on your TV. However, the eARC can be used only when the A/V receiver supports the eARC feature.

9. The sound is not heard clearly.

- Change to an appropriate sound mode. -> Settings Sound Sound Mode
- When Intelligent Mode and Adaptive Sound+ are turned on, the sound effects are automatically adjusted to the surroundings. -> Settings -> General -> Intelligent Mode Settings -> Intelligent Mode. This function may not be supported depending on the model.
- To optimize the sound depending on the surroundings, select Adaptive Sound+. -> Settings -> General -> Intelligent Mode Settings -> Adaptive Sound+. This function may not be supported depending on the model.

10. The volume of the external device cannot be adjusted.

- Check the cable connection between the TV and the external device.
- When connecting an external speaker such as home theater via HDMI, make sure it is connected to the HDMI (eARC) port on the TV. Make sure that the -> Settings -> General -> External Device Manager -> Anynet+ (HDMI-CEC) is active on your TV.

11. I want to turn off and on the TV and audio device at the same time.

- When you connect the Samsung Soundbar to the TV via Bluetooth, the power turns off and on together. It may not be supported depending on the Samsung Soundbar model.
- When you connect an audio device that supports HDMI eARC to the HDMI (eARC) port on the TV, the power turns off and on together.

Channel and Broadcast Issues

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

1. "Weak or No Signal" displayed in TV mode or cannot find channel.

- Make sure that the external device is connected securely and turned on. Move to Sources to switch to other input sources. -> Source -> Sources
- When using a set-top box or cable box, check the broadcast signals or the network that is connected to the external device.

2. The TV is not receiving all channels.

- Confirm that the coaxial cable is securely connected to the TV.
- Run Reset or Auto Program. -> Settings -> General -> Reset. -> Settings -> Broadcasting -> Auto Program

3. The captions are not provided on a digital channel.

- When watching channels with the antenna cable connected, run Caption Settings. -> Settings -> General -> Accessibility -> Caption Settings
- Some channels may not have caption data.
- When watching a channel on an external device such as a set-top box and cable box, turn on the caption function on the device. For more information, contact your service provider.

4. Broadcasting is deactivated.

- Broadcasting is only available when Source is set to TV.
- Broadcasting cannot be accessed while you watch TV using a cable box or satellite box.
- Broadcasting cannot be accessed while a recording is in progress or the Timeshift function is running.

External Device Connectivity Issues

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

1. The "Mode Not Supported" message appears.

- Adjust the output resolution of the external device to a resolution supported by the TV.

2. 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.

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

- To wirelessly connect the TV to your PC, read the instructions at PC Screen Sharing (Wireless) in Connection Guide, and then try to connect. -> Source -> Connection Guide -> PC -> Screen Sharing (Wireless)
- Confirm that the TV and your PC are connected to the same network.
- To wirelessly connect the TV to your mobile device, read the instructions at Smartphone Screen Sharing (Smart View) in Connection Guide, and then try to connect. -> Source Connection Guide Smartphone Screen Sharing (Smart View)

- If the TV has difficulties connecting to your PC or mobile device due to surrounding radio interferences, change the frequency of the wireless access band, and then try to connect.

4. No screen appears when connecting the TV to an external device.

- For more information about how to connect an external device, run Connection Guide. -> Source -> Connection Guide
- Make sure that the external device is connected securely and turned on. Move to Sources to switch to other input sources. -> Source -> Sources
- Using HDMI Troubleshooting, you can check the connection to HDMI cable and external devices (takes approximately 2 minutes). -> Source -> Connection Guide -> Video Device -> HDMI Troubleshooting
- When using a set-top box or cable box, check the broadcast signals or the network that is connected to the external device.

5. 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. -> Source -> Connection Guide -> Audio Device -> Bluetooth

6. The PC screen does not appear or it flickers

- When the PC screen does not appear or the PC is not recognized, check the power supply of the PC and then reconnect the HDMI cable between the PC and TV.
- When the symptom persists, check that the PC is in Sleep mode and then set Input Signal Plus to On. -> Settings -> General -> External Device Manager-> Input Signal Plus When the set resolution is not matched, it may cause a blank or flickering screen. For the PC supported resolution, see "Read Before Connecting a Computer (Supported Resolutions)."

Network Issues

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

-> Settings -> Support -> Device Care -> Self Diagnosis -> Smart Hub Connection Test Try Now Try Now

If the TV has trouble with network connection or TV services, check the Smart Hub connection status.

1. Wireless network connection failed. Unable to connect to a wireless access point.

- Make sure that no items that can generate electromagnetic interferences are placed between the TV and the wireless/wired access point.

- 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.
- Enter the correct password if required.
- If the wireless connection fails, connect the TV to the access point via a LAN cable.
- If the TV can connect to the Internet normally via the wired connection, there might be a problem with the access point. In this case, try using a different access point.

2. 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.

3. Auto IP configuration failed. Unable to connect to the network.

- 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 the access point is on, turn it off, wait 1 or 2 minutes, and then turn it on.
- Disconnect and then reconnect the power cable of the TV, or press and hold the power button for 3 seconds.

4. Connected to a local network, but not to the Internet.

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. – -> Settings -> General -> Network -> Network Status -> IP Settings

5. Network setup is completed, but unable to connect to the Internet. If the problem persists, contact your Internet service provider.

Anynet+ (HDMI-CEC) Issues

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

1. What is Anynet+?

- You can use the TV's remote control to control external devices that support Anynet+ (HDMI-CEC) and that are connected to the TV via an HDMI cable. For example, if a connected external device supports Anynet+, you can have the connected device turn on or off when you turn the TV on or off.

2. Anynet+ does not work.

- Confirm that the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. Check if the power cord of the Anynet+ device is properly connected.
- Check the cable connections of the Anynet+ device.
- Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been set to On. -> Settings -> General -> External Device Manager

- Anynet+ (HDMI-CEC) Anynet+ may not function when some other functions are active, including Channel Search, Smart Hub, Initial Setup, etc.
- If you have disconnected and then reconnected the HDMI cable, scan for devices again or turn your TV off and on.

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

- Move the focus to the Anynet+ device at -> Source, press the up directional button to move to Anynet+ (HDMI-CEC), and then press the Select button.
- Check if the Anynet+ device is properly connected to the TV, and then select Anynet+ (HDMI-CEC) menu to see if Anynet+ (HDMI-CEC) is set to On. -> Settings -> General -> External Device -> Manager Anynet+ (HDMI-CEC)

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

- To turn off the Anynet+ function of a device connected to the TV, turn off the Anynet+ (HDMI-CEC) function of the device. -> Settings -> General -> External Device Manager -> Anynet+ (HDMI-CEC)
- When Anynet+ (HDMI-CEC) is turned off, the sound bar connected via the HDMI (eARC) port does not turn off and on together with the TV. To prevent a specific device connected to the TV from turning off automatically, turn off the HDMI-CEC function on a specific device connected to the TV.

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

- You cannot use the remote control when the TV is configuring Anynet+ or switching to the TV viewing screen.
- Use the remote control after the TV has completed the Anynet+ configuring or has switched to the TV viewing screen.

6. The Anynet+ device won't play.

- You cannot use the play function when Reset is in progress.

7. The connected device is not displayed.

- Check whether the device supports Anynet+.
- Anynet+ devices must be connected to the TV using an HDMI cable. Make sure the device is connected to your TV with an HDMI cable. Some HDMI cables may not support Anynet+.
- Check whether the HDMI cable is properly connected.
- Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been set to On. -> Settings -> General -> External Device Manager -> Anynet+ (HDMI-CEC)

- Scan for Anynet+ devices again.
- If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please scan for the device again.

Remote Control Issues


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

1. The remote control does not work.


- The connection between the remote control and the TV may be lost.
- Point the Samsung Smart Remote at the front of the TV, and then press and hold the and buttons simultaneously for 3 seconds or more. Pairing is not available in AU7/BEA series.
- 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 solar cell or the USB port(C-type) on the bottom. You can check remaining battery of Samsung Smart Remote with solar cell in -> Settings -> General -> Power and Energy Saving -> Available Remote Battery. If the remote control has batteries, replace them with new ones.

2. The remote control batteries run out quickly.

The batteries may be consumed quickly if the remote control is used very frequently or the Voice Wake-up function is turned on. You can extend the battery life by turning off the Voice Wake-up function.

-  → Explore Now → Settings → Voice Wake-up

3. External devices cannot be operated with the TV remote control.

- Check the cable connection between the TV and external devices.
- When the symptom persists, set it manually in ->  Source -> Universal Remote

Recording Issues

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

1. The Timeshift or recording function cannot be used.

- Check if there is a storage device connected to the TV.
- Recording will automatically stop if the signal becomes too weak.
- Check the free space on the storage device.
- The function will not work if there isn't enough storage space on the USB device.
- Before using the recording function, be sure to read all precautions. For more information, refer to "Before Using the Recording and Timeshift Functions."

2. Cannot record videos received from an external device or Samsung TV Plus.
 - The recording function is only available for digital broadcast channels received by the TV. You cannot record videos received from an external device or Samsung TV Plus.
3. The "Format Device" message appears when the Timeshift or recording function is used.
 - To use the recording function, the storage device connected to the TV must have been already formatted.
 - Formatting the storage device deletes all data from it, and the storage device is formatted in NTFS.
4. The recorded files on the TV are not played back on a PC.
 - The recorded files on the TV can only be played back on the same TV. Those video cannot be played back on a PC or other TV

Media Files

When files don't play, this may help resolve the problem

1. 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 file may not play smoothly.
2. Some files can't be played.
 - Some files that use an unsupported codec may not be played back.
 - Make sure that the codec is supported by the TV. For more information, refer to "Read Before Playing Photo, Video, or Music Files."

Voice Assistant Issues

When the Voice Assistant isn't working, these steps may help resolve the problem.

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

1. The voice commands do not work well.

Voice commands may differ depending on the Voice Assistant. Refer to the command examples for each Voice Assistant.

- Bixby -> Explore Now
- Amazon Alexa: -> Settings -> General -> Voice -> Amazon Alexa Settings
- Google Assistant: -> Settings -> General -> Voice -> Google Assistant Settings

2. Bixby or Alexa answers automatically.

The TV may recognize an ambient noise or everyday conversation as a call to Voice Assistant. Turn off the Voice Wake-up function or set the Wake-Up Sensitivity to Low.

- -> Explore Now -> Settings -> Voice Wake-up

3. I spoke "Hi, Bixby" but Bixby does not answer. I spoke "Alexa" but Amazon Alexa does not answer.

The Samsung Smart Remote may not recognize your voice when it is far away from you, turned upside down, or located in an environment with loud ambient noise.

- Use the Samsung Smart Remote less than 2 feet (1.5 m) with the remote control buttons facing upward. (There is a built-in microphone on the front of the Samsung Smart Remote.)
- Do not place the Samsung Smart Remote near the TV speaker or an audio speaker.
- Turn on the Voice Wake-up function. -> Explore Now -> Settings -> Voice Wake-up

4. With Samsung Smart Remote, the following features are available except for voice recognition. There is no response even if the voice entry button is pressed.

- Try pairing the remote control with the TV.

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

Unplug and then plug the TV 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.

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

Say with the area name included.

Other issues

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

1. The TV is hot.

- Watching TV for an extended period of time causes the panel to generate heat.
- The heat from the panel is dissipated through internal vents running along the top of the TV.
- The bottom, however, may feel hot to the touch after extended use.
- Children watching TV need constant adult supervision to prevent them from touching the TV.
- This heat, however, is not a defect and does not affect the TV's functionality.

2. The TV smells like plastic.

- This smell is normal and will dissipate over time.

3. The settings are lost after 5 minutes or every time the TV is turned off.

- If Usage Mode is set to Retail Mode, the TV's audio and video settings are automatically reset every 5 minutes.
- Change Usage Mode to Home Mode. -> Settings -> General -> System Manager -> Usage Mode

4. The TV is tilted to the side.

- Remove the base stand from the TV and reassemble it.

5. The stand is wobbly or crooked.

- Refer to the Quick Setup Guide and make sure that the stand is assembled correctly.

6. PIP is not available.

- PIP is available only when an external device is connected with an HDMI or Component cable.
- Note that the function is unavailable when Smart Hub is active.

7. A POP (TV's internal banner ad) appears on the screen.

- Change Usage Mode to Home Mode. -> Settings -> General -> System Manager -> Usage Mode

8. The TV is making a popping noise.

- The expansion and contraction of the TV's outer casing may cause a popping noise.
- This does not indicate a product malfunction. The TV is safe to use.

9. The TV is making a humming noise.

- Your TV utilizes high-speed switching circuits and high levels of electrical current. Depending on the TV's brightness level, the TV may seem slightly noisier than a conventional TV.
- Your TV has undergone strict quality control procedures that meet our demanding performance and reliability requirements.
- Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund.

10. The software update over the Internet has failed.

- Check the network connection status. → Settings → General → Network → Network Status
- If the TV is not connected to a network, connect it to a network.
- The upgrade stops if you already have the latest software version.

11. The TV narrates the screen events in voice-over.

- To turn off Voice Guide, move the focus from Accessibility Shortcuts to Voice Guide and then press the Select button. You can turn on or off Voice Guide. To run Accessibility Shortcuts, see the following:
 - Press and hold the +/- (Volume) button on your Samsung Smart Remote.
 - → Settings → General → Accessibility → Voice Guide Settings → Voice Guide

Diagnosing TV operational issues

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

→ Settings → Support → Device Care → Self Diagnosis Try Now

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

- Video Test
- Picture Test
- Sound Test
- HDMI Troubleshooting
- Signal Information
- Smart Hub Connection Test
- Reset Smart Hub

1. Cannot select Signal Information in Self Diagnosis.

- Verify that the current channel is a digital channel.
- Signal Information is only available for digital channels. -> Settings -> Support -> Device Care -> Self Diagnosis -> Signal Information

2. 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. -> Settings -> Support -> Device Care -> Self Diagnosis -> Reset Smart Hub

3. Reset picture

- Resets current picture settings to the default settings. -> Settings -> Picture -> Expert Settings -> Reset Picture

4. Reset sound

- Resets current sound settings to the default settings. -> Settings -> Sound -> Expert Settings -> Reset Sound

Getting Support

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

Getting support through Remote Management

- -> 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 TV, correct problems, and update your TV's software remotely via the web. You can also turn Remote Management on and off. You can also start this function by pressing and holding the button for 5 or more seconds. This function requires an Internet connection.

Finding the contact information for service

- -> Settings -> Support -> About TV Try Now
- You can view the address of the Samsung website, the call center phone number, your TV's model number, your TV's software version, Open Source License and other information you may need to get service support from a Samsung call agent or the Samsung website. You can also view information by scanning the QR code of your TV. You can also start this function by pressing and holding the button for 5 or more seconds. Continue holding the button until the customer information pop-up window appears.

Requesting service

- -> Settings -> Support -> Device Care -> Request Support Try Now
- You can request service when you encounter a problem with the TV. Select the item matching the problem that you encountered, enter the required item, move the focus to Next, and then press the Select button. Select Request Now -> Send or Schedule Appointment -> Request -> Send. Your service request will be registered. The Samsung Contact Center will contact you to set up or confirm your service appointment. You must agree to the terms and conditions for the service request. This function may not be supported depending on the geographical area. This function requires an Internet connection.

FAQ

In this section, you'll find the answers to the e-Manual questions we get asked about most often

The TV Screen does not Display Properly

When the TV screen does not look right, you can check if the issue is caused by the product or the broadcasting signal and cables.

When the TV screen does not display properly

- The color and design of the TV and its accessories (including the remote control) and the features may differ depending on the model or geographical area.
- Check the antenna and input cable connections.
- Check the antenna and input cable connections.
- Check the antenna and HDMI cable connections.
- If the issue persists, define exactly what is wrong with the display. For example, mosaics and blocks, multiple lines or white dots, fixed horizontal, or vertical lines.
- Try changing channels using the remote control

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.