

CONNECTION GUIDE

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

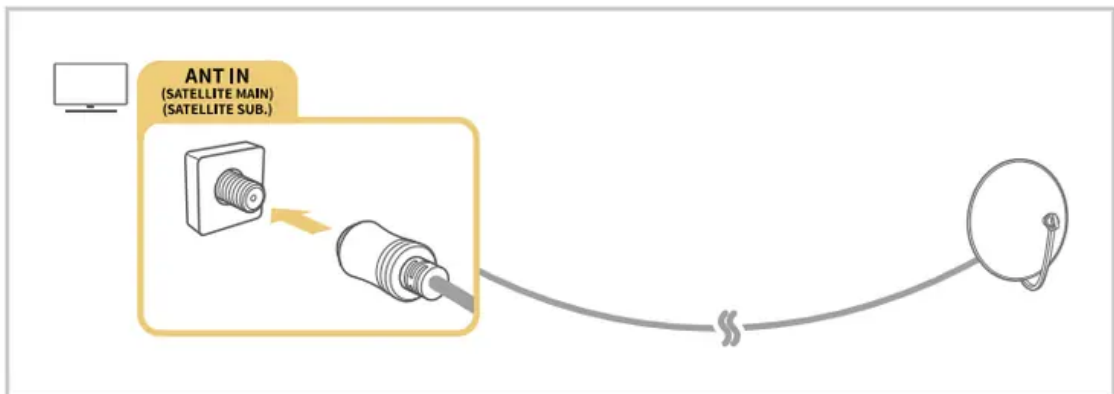
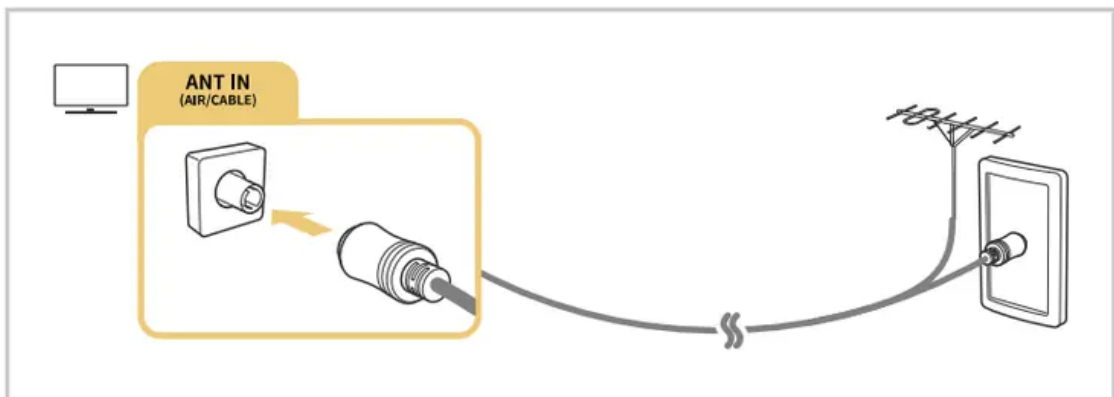
It shows you how to connect various external devices, such as video devices, game consoles, and PCs using pictures.

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

- Audio Device: HDMI (ARC), Optical, Bluetooth, Wi-Fi, Wi-Fi Speaker Surround Setup
 - HDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.
- Video Device: HDMI
- Smartphone: Screen Sharing (Smart View), SmartThings, Apple AirPlay, Tap View
- PC: HDMI, Screen Sharing (Wireless), Apple AirPlay
- Input Device: Keyboard, Mouse, USB Gamepad, 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.
 - Apple AirPlay 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).

CONNECTING AN ANTENNA

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



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

CONNECTING TO THE INTERNET

 >  **Settings** > **General** > **Network** > **Open Network Settings**

Configure network settings to connect to an available network.

Establishing a wired Internet connection

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

 >  **Settings** > **General** > **Network** > **Open Network Settings** > **Wired**

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

- If no wireless access point is found, select Add Network at the bottom of the list and enter the network name (SSID).
- If your wireless access point has a WPS or PBC button, select Use WPS at the bottom of the list, and then push the WPS or PBC button on your access point within 2 minutes. The TV will connect automatically.
- To view or delete previously connected network names (SSIDs), move the focus to Manage Saved Networks, and then press the Select button.
- To disconnect Wi-Fi, select Disconnect in

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

Checking the Internet connection status

Resetting Your Network

Turning on the TV with a mobile device

Connecting an IP control device to the TV

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

- To use this function, Power On with Mobile must be turned on.
- Turning this feature on may allow other IP control devices to control your TV. We recommend turning this feature on only if an authorized third-party custom controller is installed and or 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.

Changing the name of the TV

Screen Sharing (Smart View) with your Mobile Device

CONNECTION NOTES



Connection notes for HDMI

- The following types of HDMI cables are recommended:
 - High Speed HDMI Cable
 - High Speed HDMI Cable with Ethernet
 - Premium High Speed HDMI Cable
 - Premium High Speed HDMI Cable with Ethernet
 - Ultra High Speed HDMI Cable
- Use an HDMI cable with a thickness of 0.66 inches (17 mm) or less.
- Using a non-certified HDMI cable may result in a blank screen or a connection error.
- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- This TV does not support HDMI Ethernet Channel. Ethernet is a Local Area Network (LAN) built with coaxial 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 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 In the power sync mode, the TV continues to detect and connect external HDMI cable. This function can be deactivated by removing the HDMI cable of the connected device.

Connection notes for computers



- 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.
- 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.

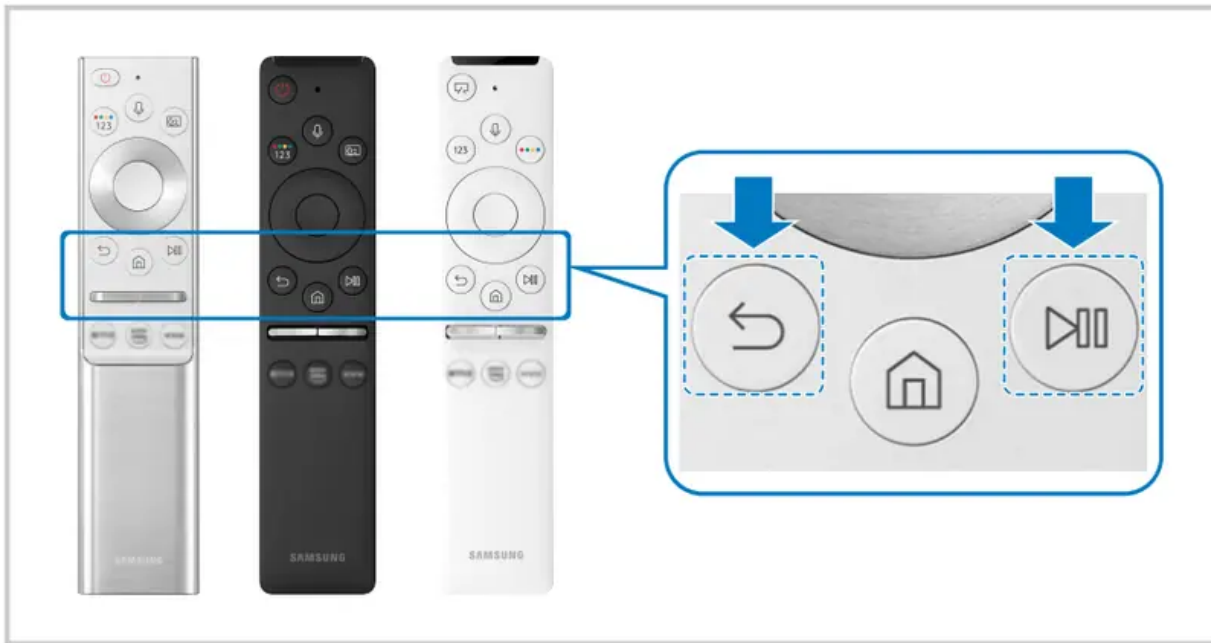
Connection notes for mobile devices

- To use the Smart View function, the mobile device must support a mirroring function, such as Screen Mirroring 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 2.4GHz environment. For better GHz is recommended. 5GHz may 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 Wi-Fi Direct function, refer to the mobile device's user manual.
- The mobile device and your Smart TV must be connected to each other on the same network.
- Use AirPlay if you are an iPhone or iPad user. For more information, refer to:
 -  >  Source > Connection Guide > Smartphone > Apple AirPlay.
- 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, NAS (Network-Attached Storage) device.

REMOTE CONTROL & PERIPHERALS

Connecting the Samsung Smart Remote to 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, then press and hold the  and  buttons simultaneously for 3 seconds or more.



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

Using Anynet+ (HDMI-CEC)

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

1. Set Anynet+ (HDMI-CEC) to On.

2. Connect an HDMI-CEC-compliant device to the TV.
3. Turn on the connected external device.

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

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

Controlling the TV with a Keyboard, Mouse or Gamepad

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

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

Connecting a USB keyboard, mouse, or gamepad Plug the keyboard, mouse or gamepad cable into the USB port

- If you connect a mouse, it is available only in the Internet app.
- XInput USB gamepads are supported.
- This function may not be supported depending on the model or geographical area.


Connecting a Bluetooth keyboard, mouse, or gamepad

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

- If your device was not detected, position the keyboard close to the TV, and then select Refresh. The TV scans for available devices again.
- If you connect a mouse, it is available only in the Internet app.
- For more information, refer to Input Device in Connection Guide

 >  [Source](#) > [Connection Guide](#) > [Input Device](#)

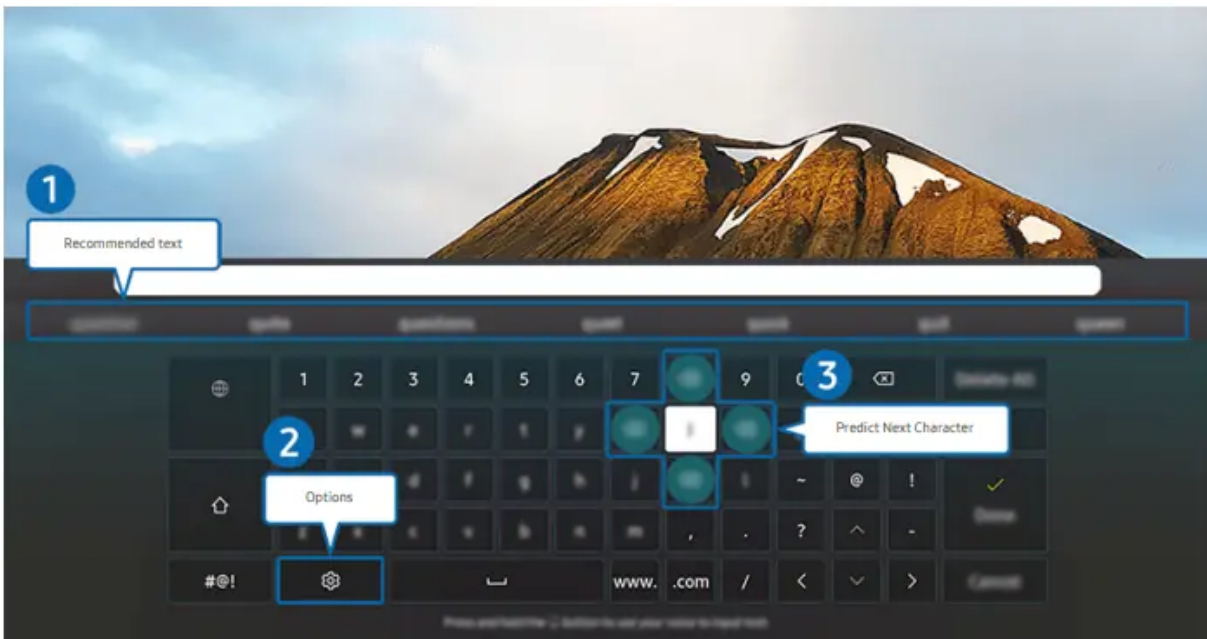
Using the keyboard and mouse

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 S	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: <ul style="list-style-type: none">• 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

Setting up the input devices

- Keyboard Settings
 - You can set up the keyboard with the Keyboard Language and Keyboard type functions.
- Mouse Settings
 - You can set up the mouse with the Primary Button and Pointer Speed functions.

Entering Text using the On-Screen Virtual Keyboard



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:

- 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.





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.

SMART FEATURES

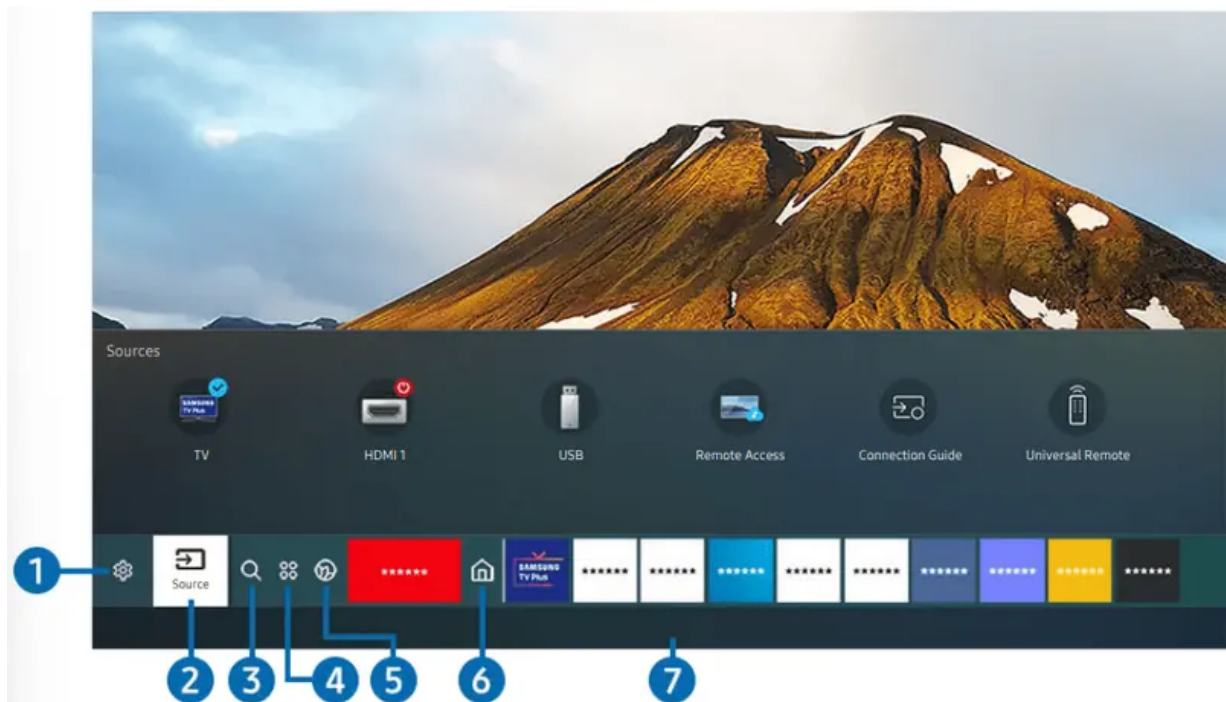
Using Smart Hub

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 Hub, the TV must be connected to the Internet.
- Some Smart Hub features may not be supported depending on the service provider, language or geographical area.
- Smart Hub service outages can be caused by disruptions in your Internet service.
- To use Smart Hub, you must agree to the Smart Hub service agreement and the collection and use of personal information. Without giving consent, you cannot use the additional features and services. You can view the entire text of the Terms & Privacy by navigating to  >  [Settings](#) > [Terms & Privacy](#)
- If you want to stop using Smart Hub, you can cancel the agreement. To cancel the Smart Hub service agreement, select Reset Smart Hub
 >  [Settings](#) > [Support](#) > [Device Care](#) > [Self Diagnosis](#) > [Reset Smart Hub](#)

Displaying the Home Screen

Press the  button.




1. Settings




- **e-Manual:** You can open the user manual embedded in your TV.
- **Intelligent Mode** In Intelligent Mode, the TV recognizes and analyzes the surroundings, noise, content, and usage patterns to provide the best viewing experience. To turn Intelligent Mode on or off, press the Select button. To set detailed options, press the up directional button, and then select Intelligent Mode Settings.
- **Picture Mode:** You can select the picture mode that provides the best viewing experience. To change the picture mode, press the Select button. To make fine adjustments, press the up directional button, and then select Picture Setup.
- **Sound Output** You can select which speakers the TV uses for audio output. To change the audio output, press the Select button. To connect to a Bluetooth speaker, press the up directional button, and then select Bluetooth Speaker List.
- **Game Mode** You can enable game mode to optimize the TV's settings for playing video games with a gaming console, such as a PlayStation™, Xbox™, or Nintendo Switch™. To turn Game Mode on or off, press the Select button. To set the detailed options, press the up directional button, and then select Go to Game Mode Settings.
- **Subtitle** You can watch TV broadcasts with subtitles. To activate/deactivate the Subtitle function, press the Select button. To run Accessibility Shortcuts, press the up directional button, and then select Accessibility Shortcuts.
- **Audio Language** You can change to the audio language you want to hear. To make fine adjustments, press the up directional button, and then select Go to Audio Options.


- **PIP** While using a connected external device, you can watch a TV broadcast in a small picture-in-picture (PIP) window. To make fine adjustments, press the up directional button, and then select PIP Setup.
- **Network** You can view the current network and Internet status. Press the up directional button, and then select Network Status or Network Settings.
- **Picture Size** You can change to the picture size you want to view. To make fine adjustments, press the up directional button, and then select Go to Picture Size.
- **Color Tone** You can select a color tone suitable for your viewing preferences. To change to a color tone that you want, press the Select button.
- **Picture Clarity** You can optimize pictures that contain a lot of motions. To turn this function on or off, press the Select button. To set the detailed options, press the up directional button, and then select Picture Clarity Settings.
- **Contrast Enhancer** You can prevent excessive differences between bright and dark areas on the TV screen. To change the Contrast Enhancer setting, press the Select button.
- **Digital Output Audio Format** You can select an output format for digital audio. Note that the Dolby Digital+ option is only available via HDMI (eARC) for external devices that support the Dolby Digital+ format.
- **Colour Space** You can set the spectrum of colours on the TV screen. To change to a colour space that you want, press the Select button. To set the detailed options, press the up directional button, and then select Colour Space Settings
- **Device Care** You can run Device Care to diagnose and optimize your TV. Device Care can also check and optimize the TV's storage. If any problem is found, the TV can call for technical support.
- **All Settings** Display the Settings menu.

2.  **Source:** You can select an external device connected to the TV.

3.  **Search:** You can search for channels, programs, movie titles, and apps from Smart Hub

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

5.  **Ambient Mode** You can enhance your living space with decorative content that matches the surroundings or view essential real-time information such as weather, time and news on the TV screen when you are not watching TV. To return to the TV mode, press the button  in Ambient Mode. To shut off the TV, press the  button.

6. Home: This menu appears first when you press the  button. Then you can quickly access Samsung Account, Notification or Privacy Choices.



- **Samsung Account**

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

-  **Notification**

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when it is time to schedule viewing, schedule recording, etc.


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

-  Delete All: You can delete all your notifications.
-  Settings: You can select services you want to be notified about. When you select Allow sound, notifications are displayed with a notification sound.
- **Privacy Choices** You can view and set the privacy policy for Smart Hub and various other services.

7. Universal Guide

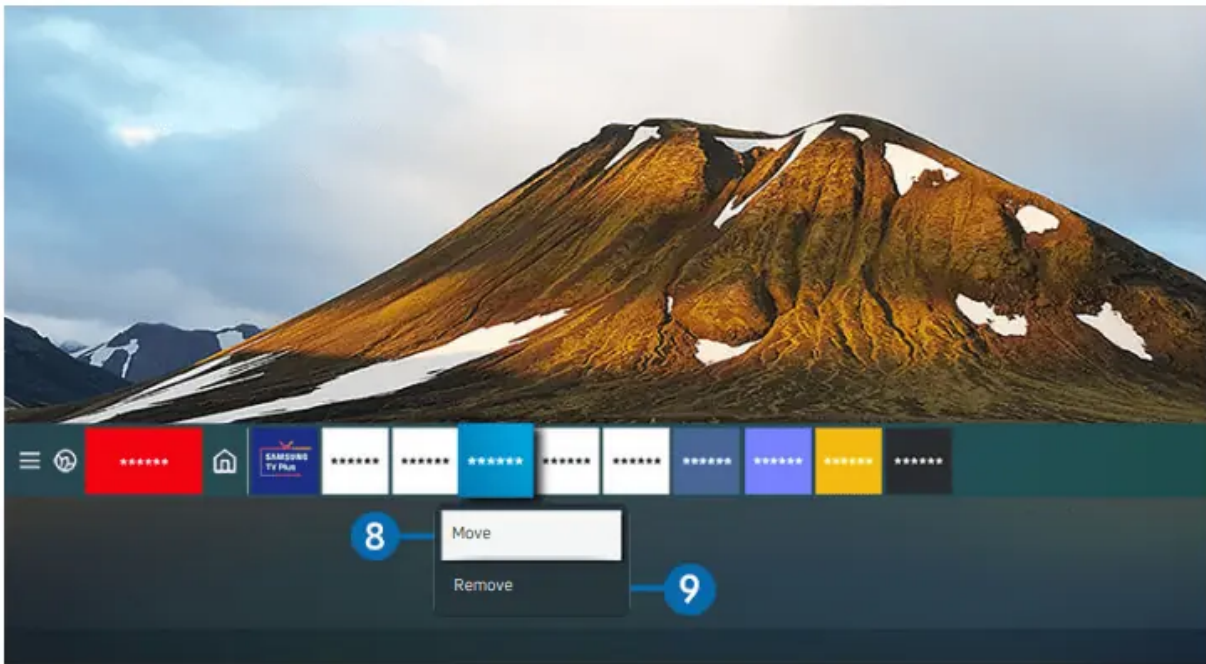
Universal Guide is an app that allows you to search for and enjoy various content, such as TV shows, dramas, and movies, in one place. Universal Guide can recommend content tailored to your preferences.

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

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



Portrait Mode When you do not use The Sero, you can rotate its screen vertically to see content such as photos, images, and time display.



8. Moving an item on the Home Screen

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

9. Removing an item on the Home Screen

Move the focus to the app you want to delete, press and hold the Select button on the remote control, and then select Remove in option menu. The selected app is deleted.

Launching Smart Hub automatically


When you set Autorun Smart Hub to on, the TV displays the Home Screen automatically when you turn the TV on. You can turn this function on or off. Press the Select button at the current menu.

Launching the last used app automatically

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

Testing Smart Hub connections

Resetting Smart Hub

You can reset the Smart Hub settings. To reset Smart Hub, enter the PIN. The default PIN is "0000." You can set the PIN in:  > Settings > General System > Manager > Change PIN.

Using a Samsung account

Create and manage your own Samsung account.

 >  [Settings](#) > [General](#) > [System Manager](#) > [Samsung Account](#)

- You can view the entire text of the Terms & Policy in

 >  [Settings](#) > [General](#) > [System Manager](#) > [Samsung Account](#)

Privacy Policy after logging in to your Samsung account.

- You can create a Samsung account at <https://account.samsung.com>. Once you have an account, you can use the same ID on both the TV and the Samsung website.

Signing in to a Samsung account

 >  [Settings](#) > [General](#) > [System Manager](#) > [Samsung Account](#) > [Sign In](#)

Creating a new account

 >  [Settings](#) > [General](#) > [System Manager](#) > [Samsung Account](#) > [Create Account](#)

Using the Ambient Mode

 >  [Ambient Mode](#)

Entering Ambient Mode

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

- If you use a remote control other than the Samsung Smart Remote, there may be restrictions to entering Ambient Mode.
- When you select Ambient Mode, The Sero rotates into Landscape and then enters the Ambient Mode.

Ambient Mode browser screen



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

1. Function and content preview

2. Ambient Settings

- Auto Brightness: Changes the auto brightness setting for Ambient Mode.
- Sleep After: Sets the time when the Ambient Mode screen turns off automatically.
- Reset All Photos: Resets the photos imported from your mobile device or Samsung Cloud.



3. TV You can enter the TV viewing screen


4. Selecting a content category

- **Routine** Enjoy a range of routines, each displaying content to suit each part of your day or create your very own routines via the SmartThings app.
- **Special Edition** Allows you to enjoy creative artwork and interior design content created by the world's finest artists and designers.
- **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.
- **My Album** Allows you to set a photo stored in your mobile device or Samsung Cloud as the wallpaper of the Ambient


- **Mode screen** Allows you to set a photo stored in your mobile device or Samsung Cloud as the wallpaper of the Ambient Mode screen
 - To import photos from your mobile device or Samsung Cloud, use the SmartThings app on your mobile device.
 - For more information about how to configure the photo settings, select View Help. This function is available after you select a photo in the My Album category.
 - This function may not be supported depending on the model.
- **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.
 - You can set a background theme you created as a background of a content item. To set a background theme as the background of a content item, press the down directional button while watching the Ambient Mode screen.
- **Music Wall** Enjoy listening to music in your living space. Visualisations are generated on your TV that alter and respond to the frequency of your music.
- **Artwork** Allows you to select content such as world famous photos and artwork.
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 - You can set a background theme you created as a background of a content item. To set a background theme as the background of a content item, press the down directional button while watching the Ambient Mode screen.
- **Music Wall** Enjoy listening to music in your living space. Visualisations are generated on your TV that alter and respond to the frequency of your music.
- **About Ambient Mode** You can view information about Ambient Mode.


Entering the TV viewing screen from Ambient Mode

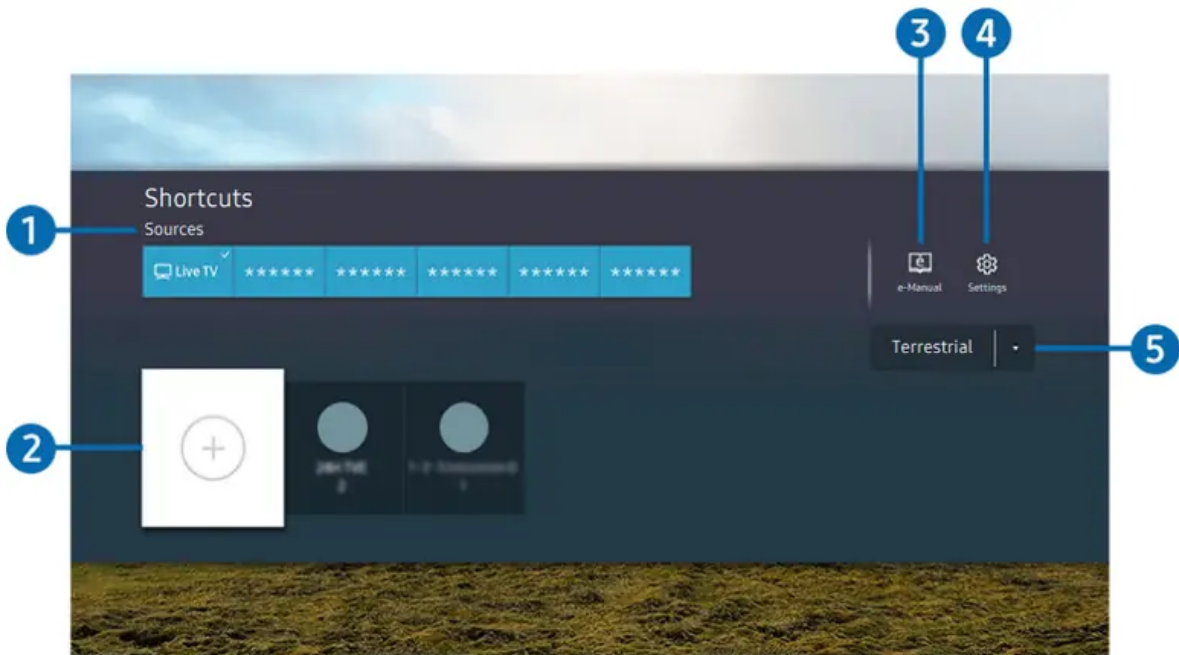
To enter the TV viewing screen from Ambient Mode, press the  button or select  TV in the Ambient Mode browser screen.



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

Using the Shortcuts



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

To return to the TV mode, press the button .



1. **Sources** You can select an external device connected to the TV.
2. **Channels** You can add, move or remove broadcast channels.
3.  **e-Manual** Displays the e-Manual guide.
4.  **Settings** Displays the main on-screen menu.
5. **Terrestrial, Cable, Satellite or Service Provider:** Choose the broadcast type of the content: Terrestrial, Cable, Satellite or Service Provider.

Adding channels

1. Move the focus to  to add the current channel.
2. Select .
3. Move to the desired location.
4. Press the Select button.

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

Moving channels

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

The selected channel is moved.

Removing a channels

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

The selected channel is removed.

Using Remote Access

 >  [Source](#) > [Remote Access](#)

You can use the TV to access your PC via Remote PC, Screen Sharing (Wireless) or Cloud Service.



Connecting a Remote PC

Provides Remote Desktop Connection (RDP) for remotely connecting to a PC running on Windows and Virtual Network Computing (VNC) for a PC running on Mac. To remotely connect to a PC, you

must enter the IP address of the remote PC or select a saved profile. Enter a correct username and password 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.

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

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

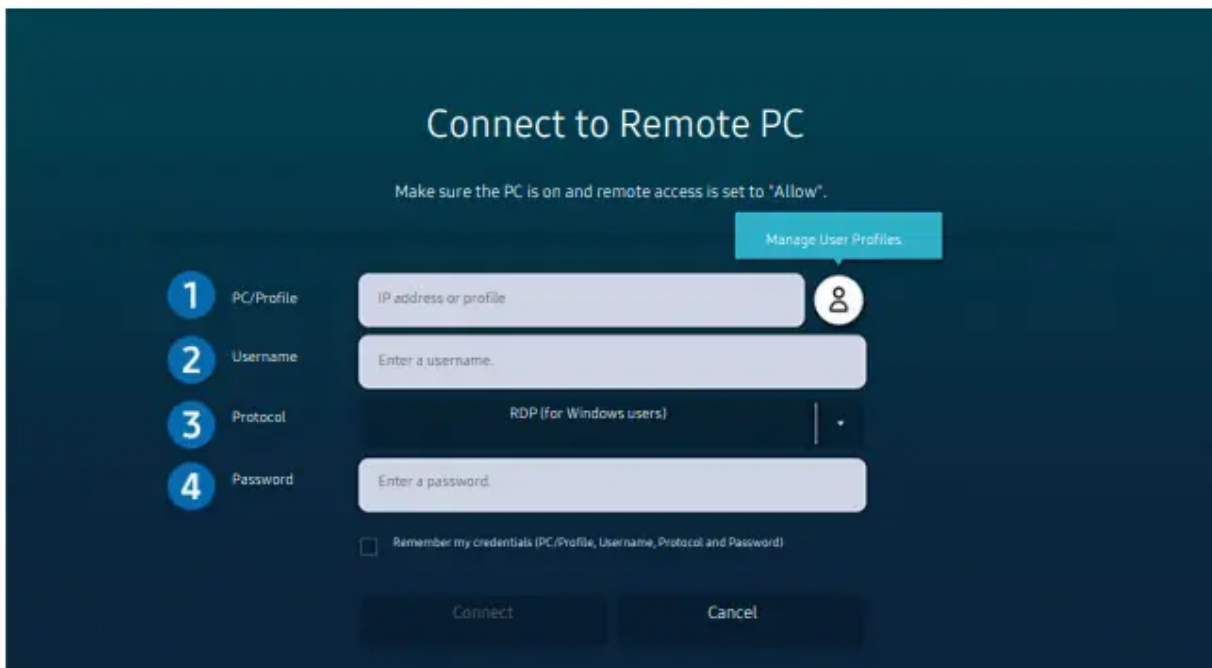
Windows OS

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.

2. Enter the required settings for connecting the computer remotely



- **Enter the IP address of the PC you want to connect to.**

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

- **Enter the Username of the computer.**

- How to check the Username: Control Panel User Account Control in Windows, System Preferences Users & Groups in Mac.

- **Select the Protocol for the computer's OS. (Windows: RDP, Mac: VNC)**

- **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.

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+.

Using Cloud Service

You can access the cloud service by selecting the cloud service icon added to Remote Access.

- The screen on the web page 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 Cloud Service, Remote Access Pass is additionally supported as well as Samsung Pass.

Setting Samsung Pass or Remote Access Pass.

Set Samsung Pass or Remote Access Pass to Use in  >  >Source >Remote Access >Run the Remote Access browser Additionally select Office 365 or Add Cloud Service) Internet Menu Settings.

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

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

- To securely access the cloud service, you can use the browser's automatic shutdown or clear the history logs.
- Before accessing the cloud service, refer to "Read Before Using the Internet Function."

The cloud service supports the following keyboard shortcuts:

- F1: Returns to Remote Access's Home screen.
- F8: Mutes the sound.

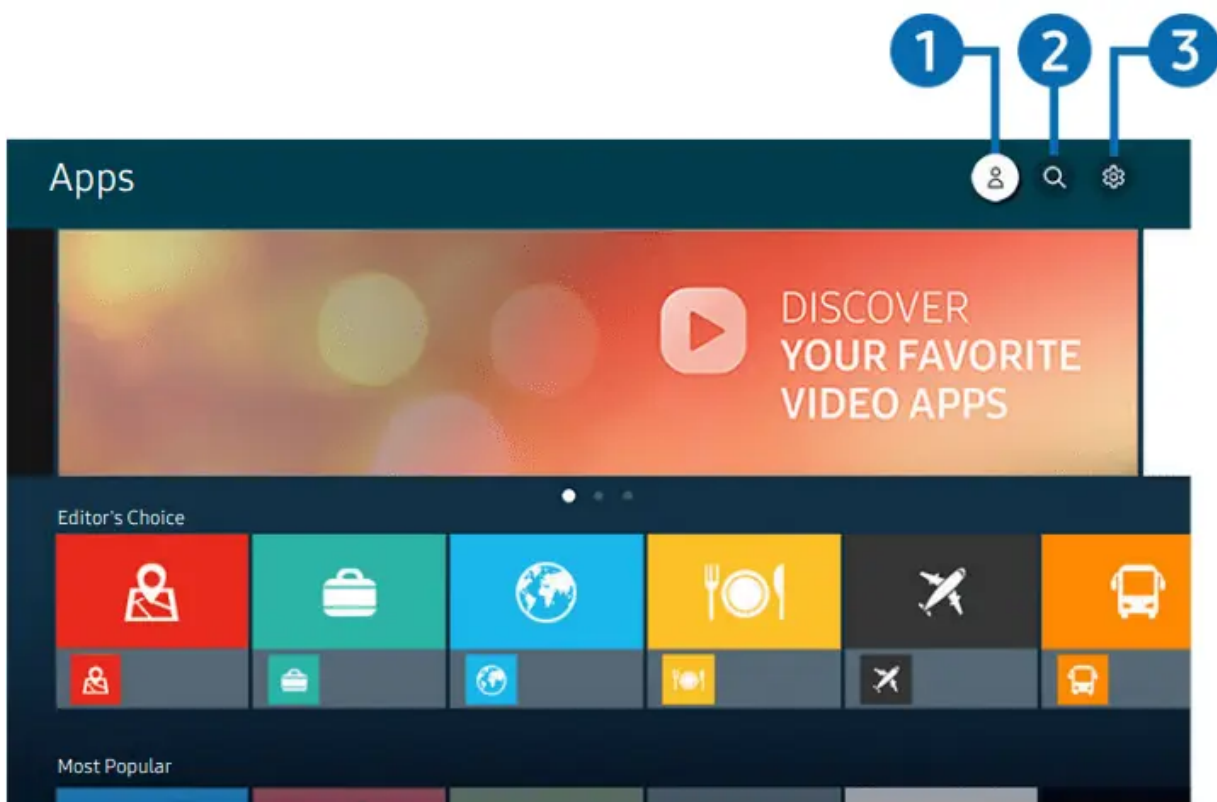
- F9/F10: Adjusts the volume.
- F11: Switches between full screen or default screen




Using the Apps Service

 >  **Apps**


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

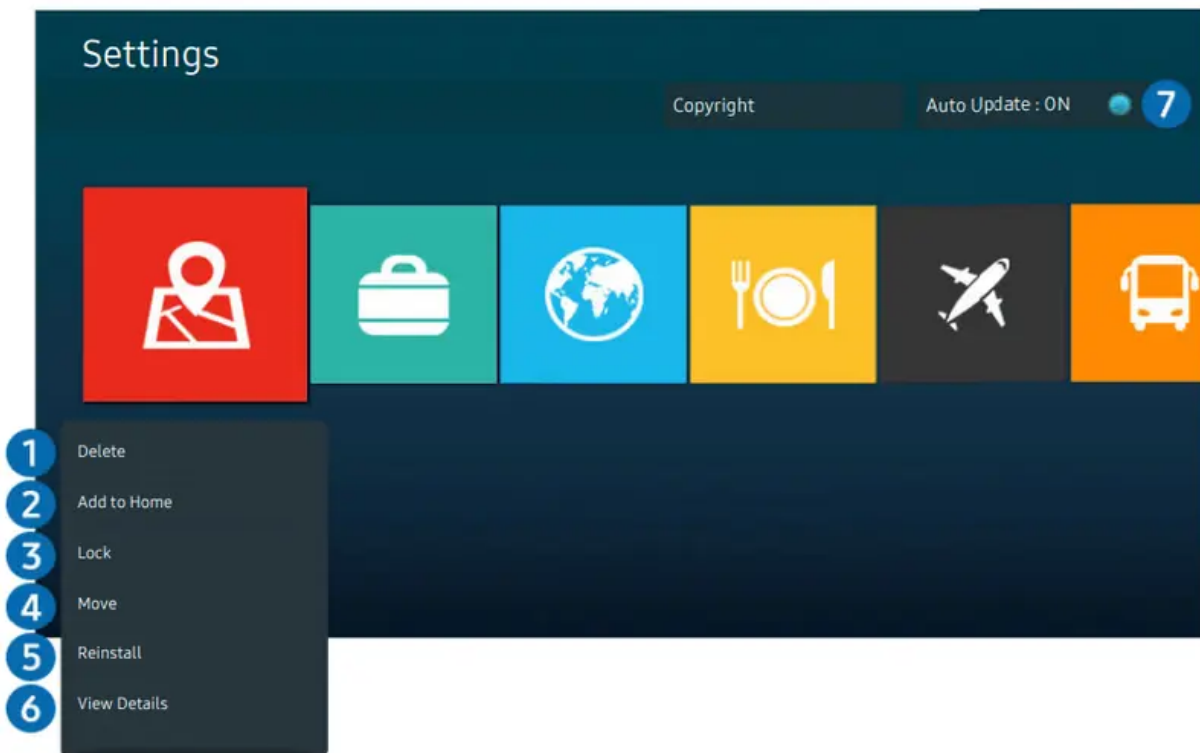
- To use this feature, the TV must be connected to the Internet.
- When Smart Hub is launched for the first time, the default apps are automatically installed. The default apps may differ depending on the geographical area.



1.  **Samsung Account**
2.  **App Search** You can search for available apps.
3.  **Settings** You can manage the installed apps.

Managing installed apps

Select  **Settings on Apps**. You can manage installed apps.



Removing an app

1. Select an app to delete.
2. Select Delete. The selected app is deleted.

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.

Locking and unlocking apps

1. Select an app to lock or unlock.
2. Select Lock/Unlock. The selected app is locked or unlocked.

Moving apps

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

Reinstalling an app

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

Checking the app information details

1. Select the app to check.

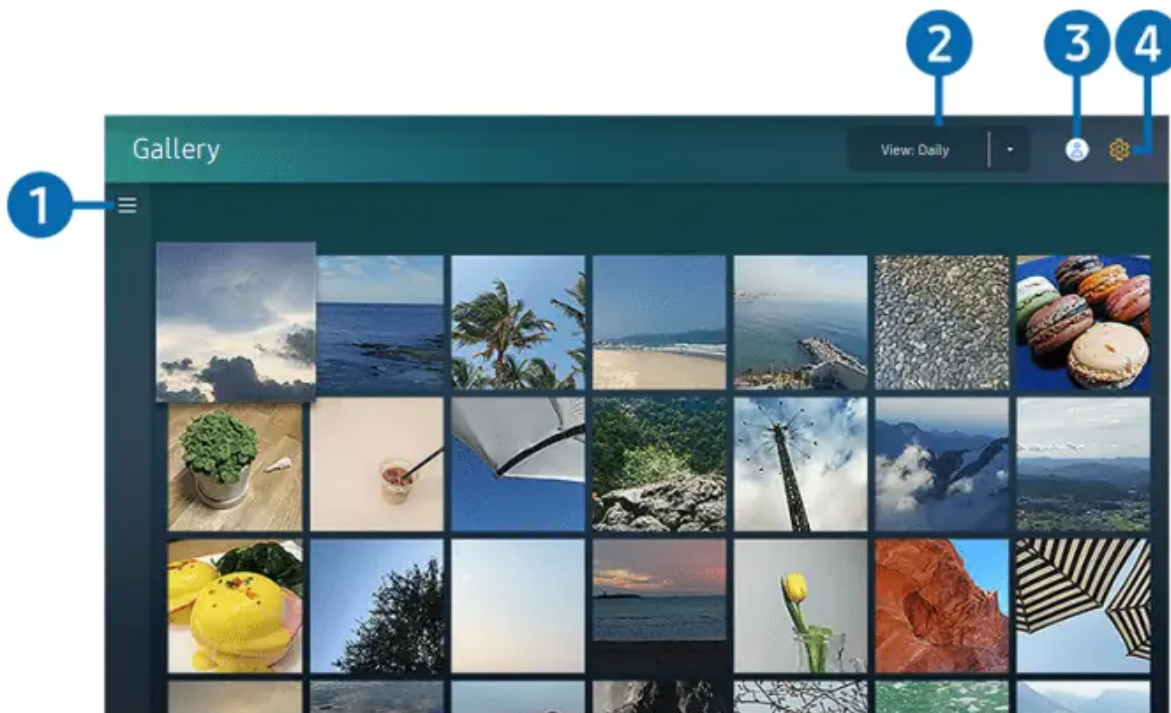
2. Select View Details.
3. The app information screen appears.

Automatically updating apps

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


Using the Gallery App

 > [Gallery](#)



You can enjoy various content synchronized with a mobile device that supports the Samsung cloud. The available content types are photos, videos, stories, and other content shared through your groups. If you have shared content from your groups, you can access them in notifications.

1. **Open category**

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

2. **View: Daily / View: Monthly**

Sort the content by day or month.

3. **Samsung Account**

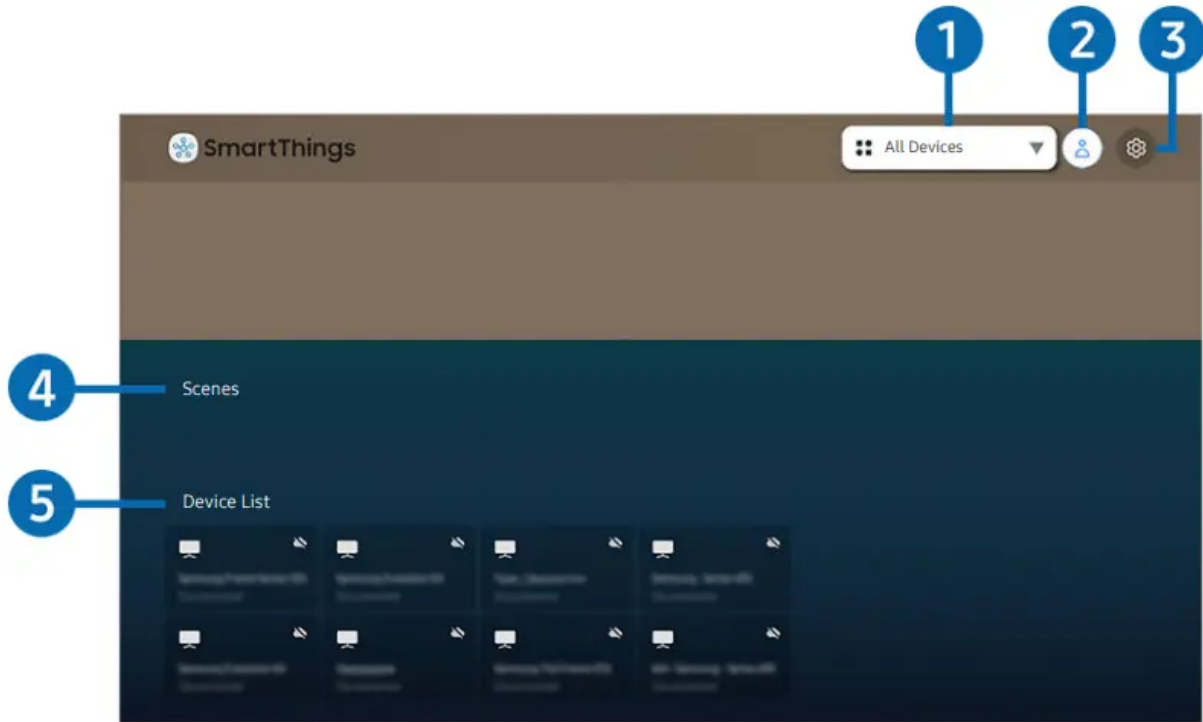
Go to the Samsung Account screen to create a new account or sign in to your account.

4. **Gallery Settings**

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

Using the SmartThings App

 > SmartThings



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

1. Location selection list

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

2. Samsung Account

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

3. Settings

Turn notifications on or off for the connected smart devices.

4. Scenes

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

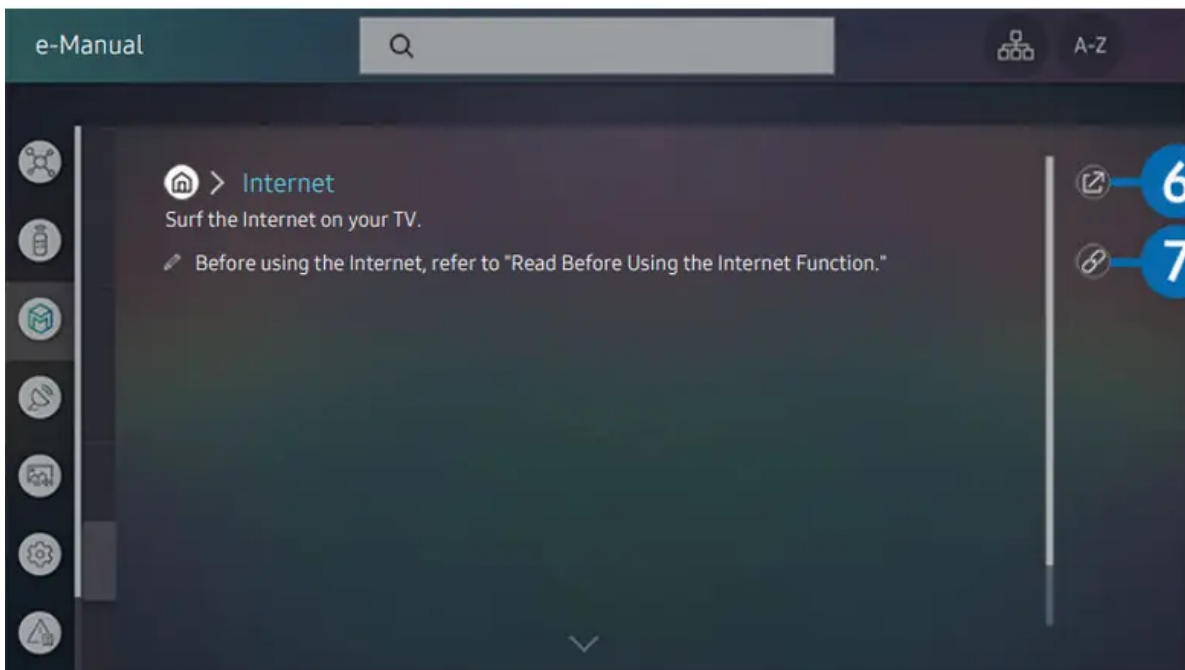
5. Device list

View a list of the connected smart devices and their statuses. You can add a new device through the SmartThings app on your mobile device. Please refer to the user guide of the SmartThings app on your mobile device for more details.

Using the e-Manual

🏠 > ⚙️ **Settings** > **Support** > **Open e-Manual**

1. 🔍(Search): Select an item from the search results to load the corresponding page.
2. 🗺️(Sitemap): It displays the lists for each item in e-Manual
3. A-Z (Index): Select a keyword to navigate to the relevant page.
4. Moving to FAQ: You can find the troubleshooting of the selected symptom
5. 🕒(Recently Viewed Topics): Select a topic from the list of recently viewed topics.



6. 📄(Try Now): Allows you to access the corresponding menu item and try out the feature right away.
7. 🔗(Link): Access an underlined topic referred to on an e-Manual page immediately.

Using Bixby

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



- This function is available only if Voice Assistant is set to Bixby.
 - 🏠 > ⚙️ **Settings** > **General** > **Voice** > **Voice Assistant**
- This function is supported only in The Frame.


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


Starting Bixby with voice

You can immediately start a conversation with Bixby by saying "Hi, Bixby". Say "Hi, Bixby", and the Bixby icon at the bottom of the TV screen is activated in Listen mode. Continue speaking.

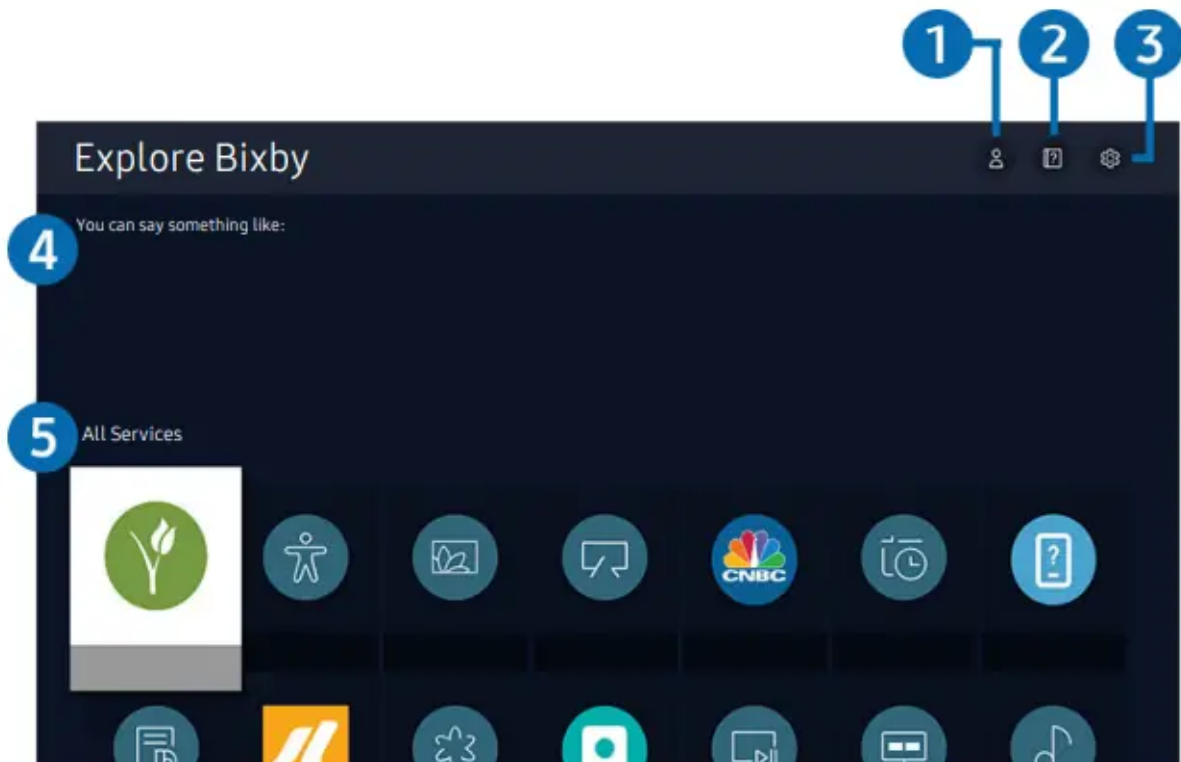
Starting Bixby using buttons on the Samsung Smart Remote

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

To view the Bixby guide, press the  button once:



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


Learning about My Bixby







1. My Profile

Go to the My Profile screen to create a new account or register a voice ID. When a voice ID is registered, you can log in with your voice and see the icon that Bixby generated for your voice.



- You can delete a voice ID after selecting  My profile. When the voice ID is deleted, its icon also disappears.
- If you are signed out of your Samsung account, select  My profile 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 geographical area.
- These functions can be set in Bixby Voice settings ( >  [Settings](#) > [General](#) > [Voice](#) > [Bixby Voice settings](#)).
- Language: You can change Bixby's language.
 - The languages of the TV and other apps will not change.
 - Bixby only supports some languages.
- Voice response: You can change or turn off Bixby's voice.
 - This function may not be supported depending on the language selected for Bixby.
- Voice Wake-up
 - You can configure this function to make Bixby respond to your voice. If Bixby does not respond to your voice, turn on the Voice Wake-up function, and then try again. ( > [Explore Now](#) >  [Settings](#) > [Voice Wake-up](#))
- Sound feedback
 - Play a sound when Bixby starts and stops listening.
- Privacy
 - You can permit or prohibit Bixby from utilizing your personal information when you are using Bixby services.

4. Recommended commands



- Displays recommended commands you can use to control the TV with Bixby given the current context.
- If you do not want to see the recommended commands, set Voice Hint to Off ( >  [Settings](#) > [General](#) > [Voice](#) > [Voice Hint](#)).

5. All Services

You can learn the voice commands that let you use Bixby in various situations. Use the directional buttons to move to the desired command, and then press the Select button. You can operate the TV with various voice commands.

- **Read Before Using Bixby**

The supported voice interaction languages and features may differ depending on the geographical area.

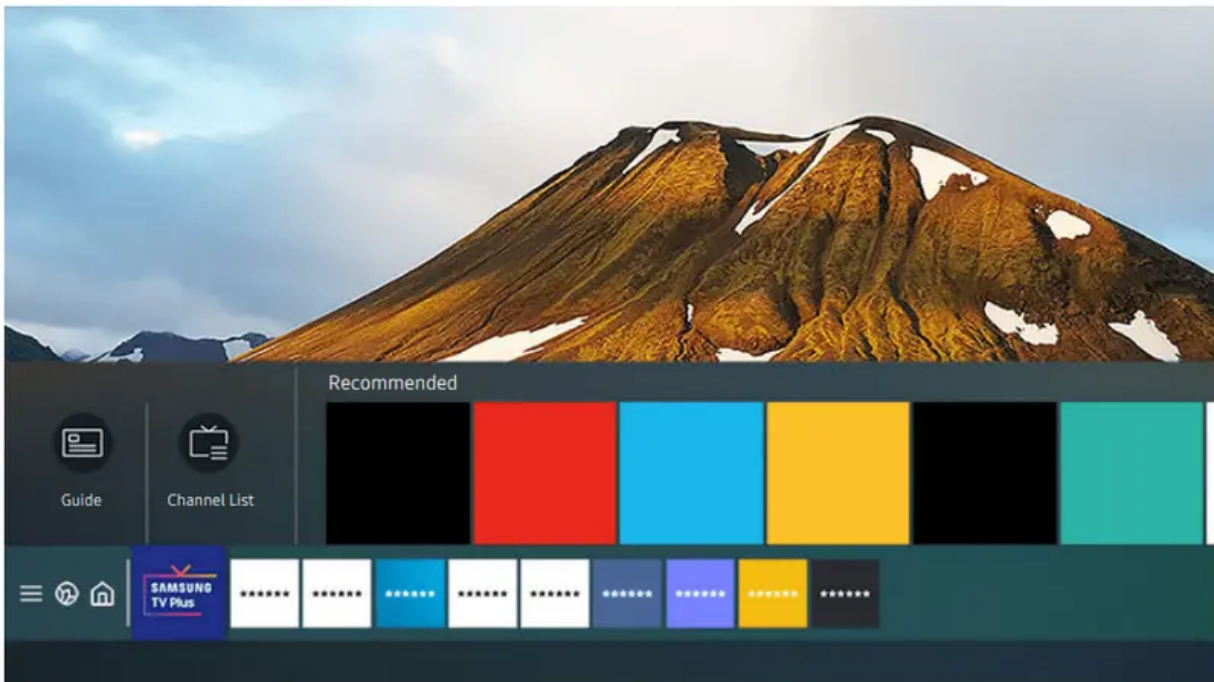
- If the language set differs from the language of your country, some features are not available.
- Bixby is available only when the TV is connected to the Internet.
- Even if the TV is connected to the Internet, there may be no response due to a Bixby server error.
- The existing functional specifications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

Provisions for using Bixby

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

TV VIEWING

Using the Guide



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

- To view the Guide while watching TV, press the \wedge/\vee (Channel) button on the Samsung Smart Remote or press the GUIDE button on the standard remote control
- To see information about analogue channels and use the analogue channel functions of the Guide, you must finish the service provider settings in initial setup.
- To view the Guide, you must first set the TV's clock

> **Settings** > **General** > **System Manager** > **Time** > **Clock**

Move the focus to the programme you want in the Guide, and then press and hold the Select button. You can use the following functions:• Record • Stop• Edit Recording Time• Schedule Viewing• Schedule Recording• Cancel Scheduled Viewing / Cancel Scheduled Recording• Channel Filter• Aerial Type• Schedule Manager• View Details

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

Recording Programmes

Using the instant and schedule recording options from the Guide screen

Instant Recording



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

Schedule Recording

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

Using the instant and schedule recording options while watching a programme

Instant Recording

If you select Record after pressing the  button twice or after pressing the  button once while watching a broadcast, recording starts.

Schedule Recording

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

Scheduling a video recording after entering the date and time

 > [Live TV](#) > [Recordings](#) > [Schedules](#) > [Add Recording](#)

Managing the schedule recording list

 > [Live TV](#) > [Recordings](#) > [Schedules](#)

Viewing recorded programmes

 > [Live TV](#) > [Recordings](#) > [Recordings](#)

Setting Up a Schedule Viewing

Using the schedule viewing options from the guide screen

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

Using the schedule viewing options while watching a programme

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




Using schedule viewing to view programmes at a specific time on a specific date

 > [Live TV](#) > [Schedule Manager](#) > [Add Viewing](#)

 > [Live TV](#) > [Recordings](#) > [Schedules](#) > [Add Viewing](#)

Using Timeshift




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

To activate the Timeshift function while watching TV, press the  button twice or press the  button, press the Select button and then select Timeshift, or press the  button

Using the Channel List

 > [Live TV](#) > [Channel List](#)

Using the Channel List, you can change the channel or check programs on other digital channels while watching TV. The Channel List screen contains the following icons:

- : A favorite channel
- : A locked channel.
- : CI card required channel.




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

- Terrestrial, Cable or Satellite
 - Allows you to choose between Terrestrial, Cable and Satellite.
- All
 - Displays the channels that the TV found during the Auto Program channel search.
- Samsung TV Plus
 - While the TV is connected to the Internet, you can watch popular programs or highlights for each theme through a virtual channel at any time. As with regular channels, the TV provides the daily program schedules for TV PLUS.
- Favorites
 - Displays Favorites 1 to Favorites 5.
 - *It displays only the favorites list that includes the favorite channel.*
- Sort
 - Sorts the list by Number or by Name.

Editing Channels

 > [Live TV](#) > [Channel List](#)

The Edit Channels screen contains the following icons:

- : A favorite channel
- : A locked channel.
- : CI card required channel.

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

- Delete
 - After selecting a target channel to remove in Edit Channels, select Delete. Removed channels are not displayed in the Channel List.
 - Select any deleted channels and then select Restore to restore the channels to the list.
- Rename Channel
 - After selecting a channel to change in Edit Channels, select Rename Channel to change the channel name.
 - You can rename only one channel at a time.
 - This function is only available for analog channels.
- Save and Exit
 - Saves and closes the Edit Channels screen.

Using a Personal Favorites List

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

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

- Add Channels
 - In the channel list, select one or more channels to add in the favorite list and then select Add Channels.
- Remove
 - Removes one or more channels from a favorites list.

- Change order
 - Changes the order of one or more channels selected in a favorites list.
- Rename Favorites
 - Renames a favorites list.
- Save and Exit
 - Saves and closes the Edit Channels screen

PICTURE

Intelligent Mode

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

 >  [Settings](#) > [General](#) > [Intelligent Mode Settings](#)

In Intelligent Mode, the TV 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.

Adaptive Picture

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

Active Voice Amplifier

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

Adaptive Sound+

Provides optimised sound quality by analysing the viewing space and the acoustic components of the content.

Adaptive Sound

Provides optimised sound quality by analyzing the viewing environment and the acoustic components of the content.

Adaptive Volume

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

Picture Quality

 >  [Settings](#) > [Picture](#) > [Picture Mode](#)

- Dynamic
 - Makes the picture brighter and clearer in bright viewing environments.
- Standard
 - Is the default mode suitable for general viewing environments.
- Natural
 - Reduces eye strain for a comfortable viewing experience.
- Movie
 - Is suitable for watching TV or movies in a dark room.
- FILMMAKER MODE
 - You can watch the source content (e.g., movie) as it is. The image defined as FILMMAKER MODE automatically switches to FILMMAKER MODE while watching.
 - This function may not be supported depending on the model or geographical area.
 - FILMMAKER MODE may look darker than other picture modes.
 - 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.

Advanced picture settings

 >  [Settings](#) > [Picture](#) > [Expert Settings](#)

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

- Brightness
- Contrast
- Sharpness
- Colour
- Tint (G/R)
- Apply Picture Settings

- Picture Clarity Settings
 - When LED Clear Motion is set to On, the screen appears darker than when it is Off.
- Local Dimming
 - This function may not be supported depending on the model or geographical area.
 - Controls the brightness of individual areas on the screen to maximise contrast automatically.
- Contrast Enhancer
- Film Mode
 - This function is only available when the input signal is TV, AV, Component (480i, 576i, 1080i), or HDMI (1080i).
- Colour Tone
- White Balance
- Gamma
- Shadow Detail
- RGB Only Mode
- Colour Space Settings
- Reset Picture

Setting the Viewing Environment for External Devices

Playing games on an optimised screen

 >  [Settings](#) > [General](#) > [External Device Manager](#) > [\(Game Mode Settings\)](#) > [Game Mode](#)

Adjusting the image quality of HDR game

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

Setting the Game Mode details

 >  [Settings](#) > [General](#) > [External Device Manager](#) > [Game Mode Settings](#)

Using Input Signal Plus

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

Using HDMI Black Level

 >  [Settings](#) > [General](#) > [External Device Manager](#) > [HDMI Black Level](#)

Viewing a picture-in-picture (PIP)

 >  Settings > Picture > PIP

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

SOUND

Configuring a Sound Mode and Expert Settings

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

Choosing a sound mode

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

Configure advanced sound settings

 >  Settings > Sound > Expert Settings

- Balance
- Equalizer
 - This function is not available when the Sound Mode function is set to Adaptive Sound or Amplify.
 - The name and properties of this function may appear differently depending on the connected external device.
- HDMI-eARC Mode
 - You can connect an audio device that supports eARC via HDMI-eARC. Muting occurs temporarily during device connection.
- Digital Output Audio Format
 - Select the digital audio output format. If you select the Auto option, the audio device outputs automatically in a supported format.
 - If you select the Pass-Through option, audio data is output with no processing.
- Digital Output Audio Delay
 - This feature is only available when the external device is connected via HDMI (eARC) and SPDIF (Sony Philips Digital Interface).
 - HDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.

- Dolby Atmos Compatibility
 - You can set the TV to allow Dolby Digital+ with Atmos streams that are input from external devices.
 - Set to On if the audio device connected via HDMI (eARC) supports Dolby Atmos. The TV screen may flicker when this function is turned on or off.
 - If this function is on, set Digital Output Audio Format to Auto.
- Auto Volume
 - Automatically adjusts the sound to a certain level when changing channels or switching to another external input.
- Sound Feedback
- Reset Sound

Sound Support Functions

Selecting speakers

 >  [Settings](#) > [Sound](#) > [Sound Output](#)

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

- External speakers may not be controlled with the remote control. When an external speaker is enabled, some sound menus are not supported..

Listening to the TV through Bluetooth devices

 >  [Settings](#) > [Sound](#) > [Sound Output](#) > [Bluetooth Speaker List](#)

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

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

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

 >  [Settings](#) > [Sound](#) > [Wi-Fi Speaker Surround Setup](#)

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



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

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

SYSTEM AND SUPPORT

Energy Saving Functions

Setting the Auto Protection Time

-  >  [Settings](#) > [General](#) > [System Manager](#) > [Auto Protection Time](#)
 - Activate a screensaver when your TV displays a still image for 2 hours or more.

Reducing the energy consumption of the TV

-  >  [Settings](#) > [General](#) > [Eco Solution](#)

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

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

- This function acts only when the value is less than the setting in Settings > Picture > Expert Settings > Brightness.
- Energy Saving Mode
 - Adjust the brightness settings to reduce the TV's power consumption.
- Motion Lighting
 - Adjusts the brightness in response to on-screen movements to reduce power consumption.
- Auto Power Off
 - Automatically turns off the TV to reduce unnecessary power consumption if the TV Controller and the remote control are not used for the set period of time.

Updating the TV's Software

*NOTE

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

- through the Internet: OR through a USB device
- through a USB device

 >  [Settings](#) > [Support](#) > [Software Update](#) > [Update Now](#)

- automatically

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

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

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

Audio and Video Functions for the Visually or Hearing Impaired

Running the accessibility functions

Running Accessibility Shortcuts

- The Accessibility Shortcuts provide easy access to the accessibility functions. To display the Accessibility Shortcuts, press the CC/VD button or press and hold the MUTE button

for 1 second or more. You can easily turn on or turn off the functions, such as Voice Guide, Picture Off, Video Description, Caption, High Contrast, Enlarge, Learn TV

- Remote, Learn Menu Screen, Multi-output Audio, Slow Button Repeat, Accessibility Settings, etc.
 - On the Samsung Smart Remote, press and hold the (Volume) button for 1 second or more.
 - 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.


Enabling voice guides for the visually impaired



- You can activate voice guides that describe the menu options aloud to aid the visually impaired. To activate this function, set Voice Guide to On. With Voice Guide on, the TV provides voice guides for channel change, volume adjust, information on current and upcoming programs, schedule viewing, other TV functions, and various content in the Internet, and in Search.
- You can go to Voice Guide, and then press the Select button to turn the function on or off.
 - The Voice Guide is provided in the language that is specified on the TV Language. However, some languages are not supported by Voice Guide even though they are listed in the TV Language. English is always supported.

HbbTV

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

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

In some countries, HbbTV is disabled by default. In this case, HbbTV can be used by installing the HbbTV application (the HbbTV Installer Application) in  > [Apps](#)

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

You can use the following functions:

- **HbbTV:** Enable or disable data services.
- **Do Not Track:** Ask apps and services not to track your browsing activity.

- **Private Browsing:** Enable Private Browsing to stop the browser from saving your Internet history.
- **Delete Browsing Data:** Delete all saved Cookies.

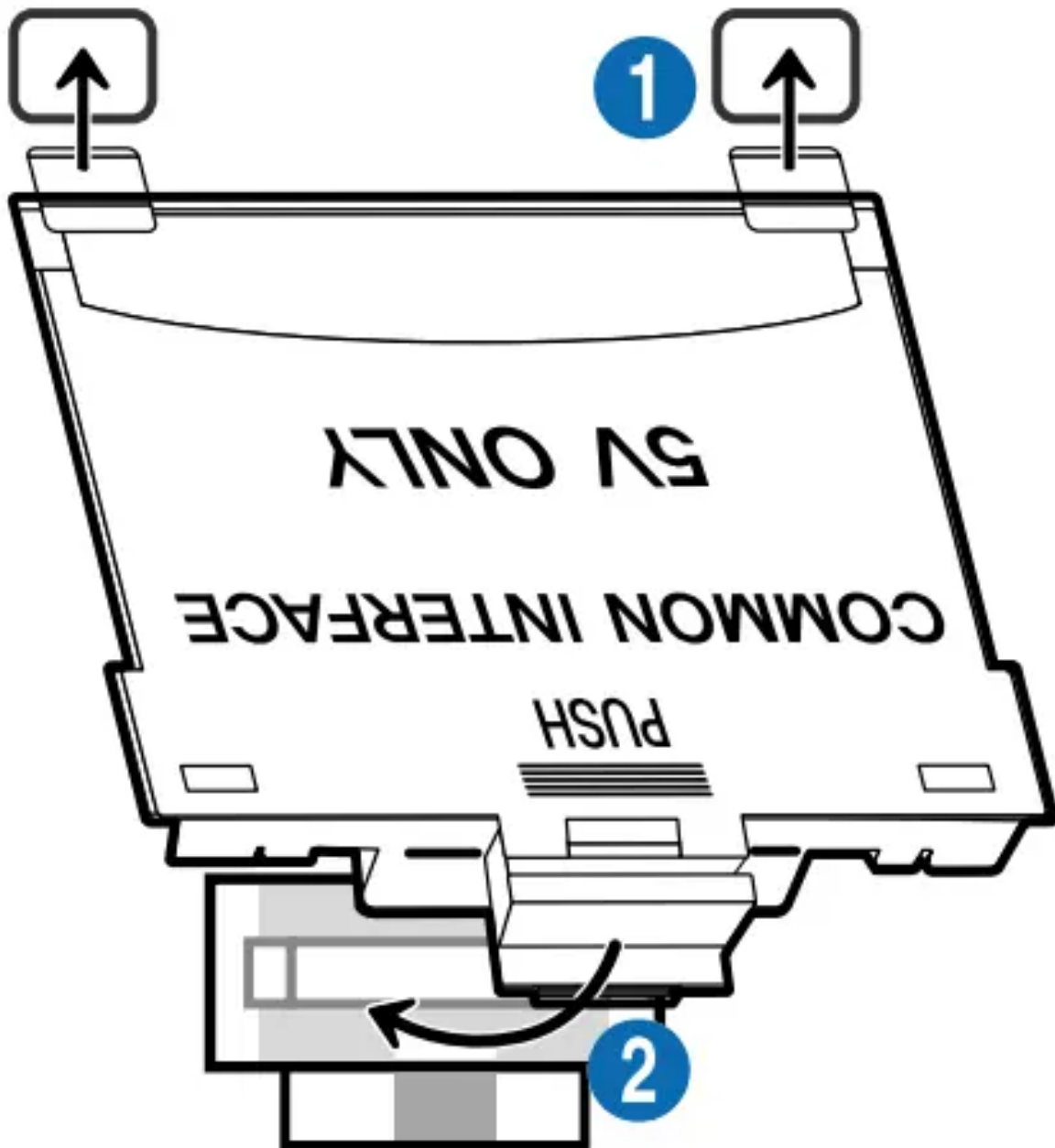
If you want this function enabled or disabled, use the Select button to turn it on or off.

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

Using a TV Viewing Card (“CI or CI+ Card”)

Connecting the “CI or CI+ Card” via COMMON INTERFACE slot with the CI CARD Adapter

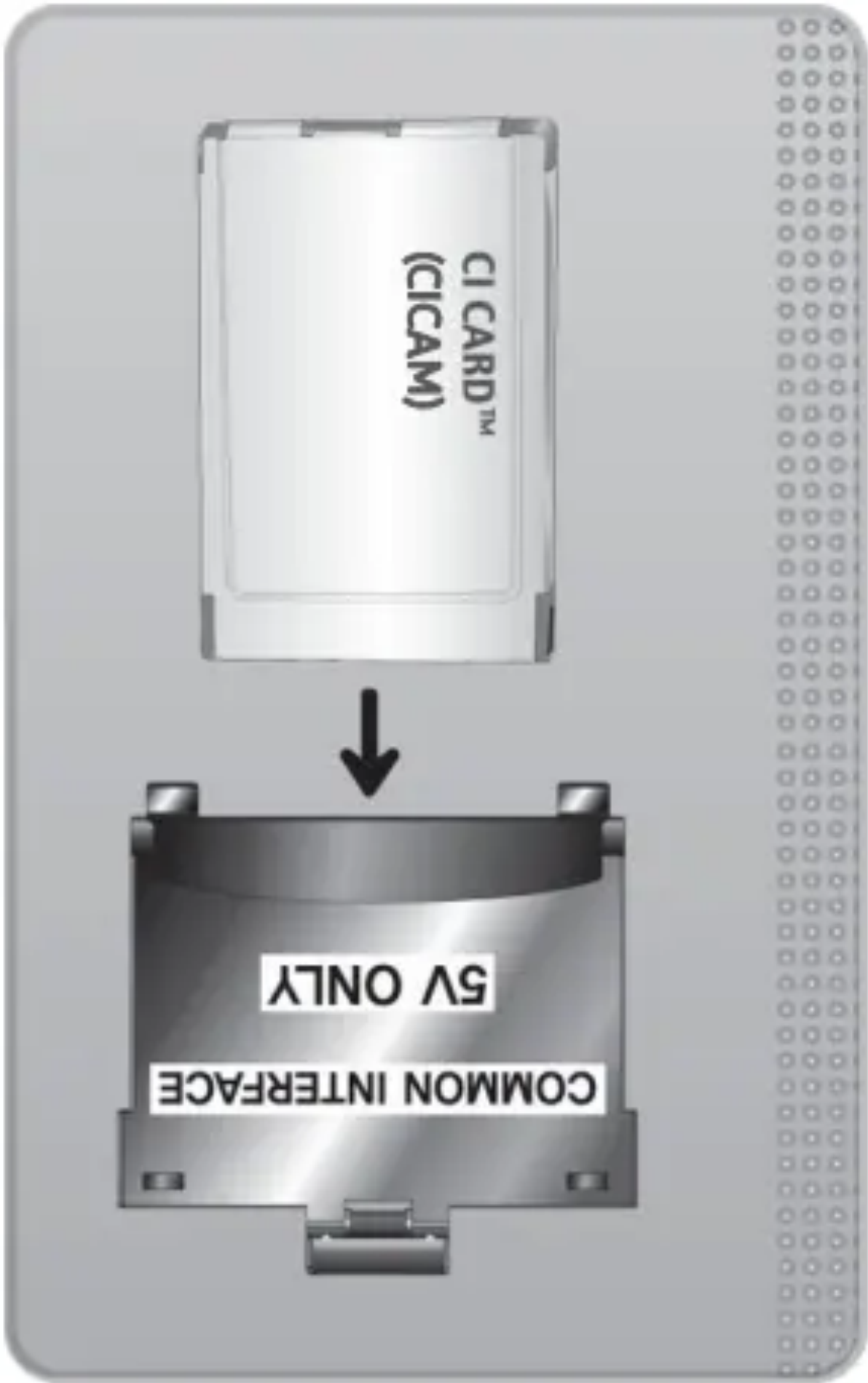
Attaching the CI CARD Adapter via COMMON INTERFACE slot



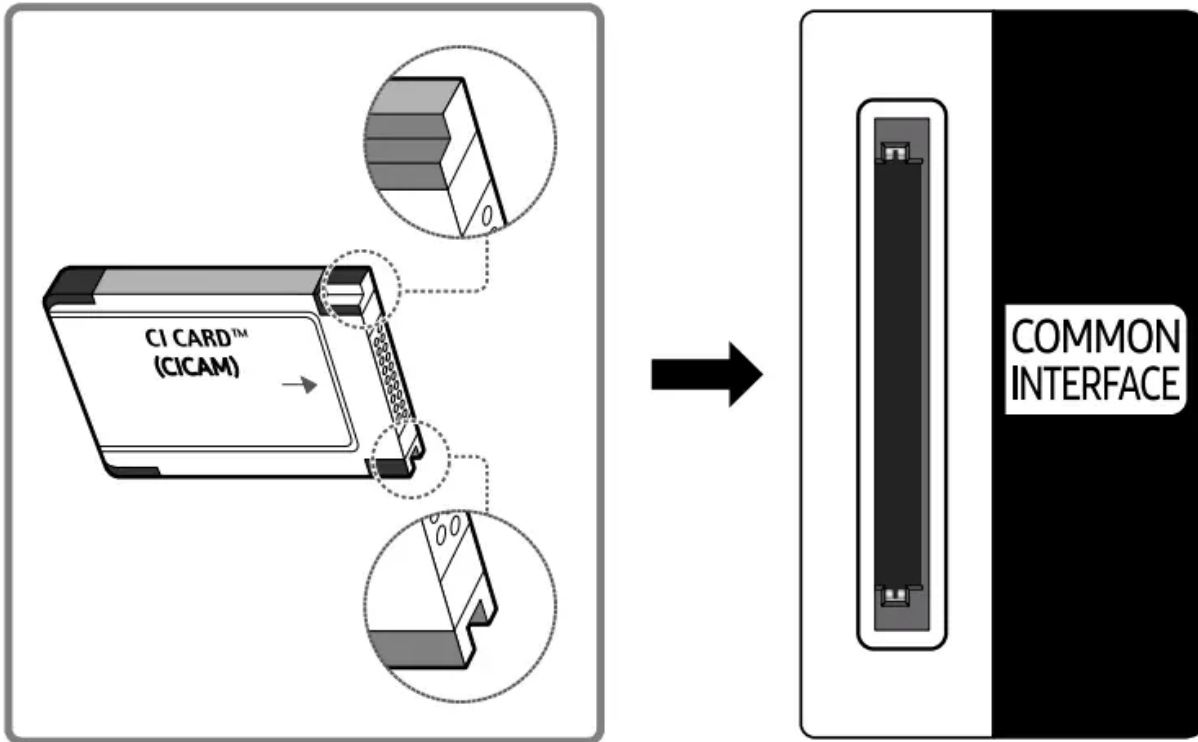
1. Insert the CI CARD Adapter into the two holes on the back of TV.
2. Connect the CI CARD Adapter to the COMMON INTERFACE slot on the back of TV.

Connecting the “CI or CI+ Card”

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



Connecting the “CI or CI+ Card” via COMMON INTERFACE slot





Using the “CI or CI+ Card”

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

- If you don't insert the “CI or CI+ CARD”, some channels will display the pop-up message.
- The pairing information will be displayed in about 2-3 minutes. If an error message is displayed, please contact your service provider.
- When the configuration of channel information has finished, the message “Updating Completed” is displayed, indicating the channel list is updated.

Teletext Feature

- This function is available only in the channel that supports the teletext service.
- This function may not be supported depending on the model or geographical area.
- To enter the Teletext feature,

On the Samsung Smart Remote: Press the  or  button for over 1 second. Then the TTX menu appears.

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

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

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

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

To change the Teletext page,

On the Samsung Smart Remote: Press the numeric button on the virtual numeric pad.

On the standard remote control: Press the numeric button.

On the Samsung Smart Remote

TTX/MIX (Full TTX / Double TTX / Mix / Live TV): The teletext mode is activated in the channel that is being watched.

Each time you press the TTX/MIX button, the teletext mode changes in the order of Full TTX → Double TTX → Mix → Live TV.

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











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











TROUBLESHOOTING








Picture Issues

Testing the picture

The problem	The problem
<ul style="list-style-type: none"> Flickering and Dimming 	<p>Disable Ambient Light Detection, Power Saving Mode, Motion Lighting, or Contrast Enhancer.</p> <ul style="list-style-type: none"> Home > Settings > General > Eco Solution > Ambient Light Detection Home > Settings > General > Eco Solution > Power Saving Mode Home > Settings > General > Eco Solution > Motion Lighting Home > Settings > Picture > Expert Settings > Contrast Enhancer <p>Run Picture Test. When the tested image quality is normal, check the signal of the connected device.</p>
<p>Component Connections and Screen Color</p>	<p>If the color on your TV screen is not correct or the black and white colors are off, run Picture Test.</p> <p>If the test results indicate that the problem is not caused by the TV, do the following:</p> <p>When using the component cable, confirm that the green (Y), blue (Pb), and red (Pr) jacks are plugged into their proper connectors.</p> <p>For more information about how to connect an external device, run Connection Guide. Home > Source > Connection Guide</p>
<ul style="list-style-type: none"> Screen Brightness 	<p>If the colors on your TV are correct but just a little too dark or bright, try adjusting the following settings first.</p> <ul style="list-style-type: none"> Home > Settings > Picture > Expert Settings > Contrast Home > Settings > Picture > Expert Settings > Brightness Home > Settings > Picture > Expert Settings > Sharpness Home > Settings > Picture > Expert Settings > Color Home > Settings > Picture > Expert Settings > Tint (G/R)
<p>Blurring, or Juddering</p>	<p>If you notice blurring or juddering on the screen, use the Picture Clarity Settings function to resolve the issue.</p> <ul style="list-style-type: none"> Home > Settings > Picture > Expert Settings > Picture Clarity Settings
<p>Unwanted Powering Off</p>	<p>If your TV appears to turn off by itself, try disabling some of the TV's energy efficiency functions.</p>







The problem	The problem
	<p>See if Sleep Timer has been enabled. The Sleep Timer automatically turns the TV off after a specific period of time.</p> <p> >  Settings > General > System Manager > Time > Sleep Timer</p> <p>If the Sleep Timer has not been enabled, see if Auto Power Off or Off Timer has been enabled and disable it.</p> <p> >  Settings > General > Eco Solution > Auto Power Off</p> <p> >  Settings > General > System Manager > Time > Off Timer</p> <p>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 specific time when your mobile device gets far away from it.</p>
Problems Powering On	<p>If you are having problems powering on your TV, there are a number of things to check before calling the service department.</p> <p>Confirm that the TV's power cord is connected correctly at both ends and that the remote control is operating normally.</p> <p>Make sure that the antenna cable or cable TV cable is firmly connected.</p> <p>If you have a cable box or satellite box, confirm that it is plugged in and turned on.</p> <p>In case of a model that supports One Connect, check the One Invisible Connection between the TV and One Connect.</p>
Unable to find a Channel	<p>If your TV is not connected to a cable box or satellite box, run Auto Program.</p> <p> >  Settings > Broadcasting > Auto Program</p> <p>When using a broadcast receiver such as set-top box and IPTV, check the connection to the TV.</p> <p> >  Source > Connection Guide</p>

The problem	The problem
	<p>When the symptom persists, contact your service provider.</p>
<p>The TV image does not look as good as it did in the store</p>	<p>Store displays are tuned to a digital UHD channel or HD channel.</p> <p>Change the output resolution of your devices, such as digital broadcast receiver, IPTV, and set-top box to UHD or HD.</p> <p>Be sure to use an HDMI cable to enjoy high quality videos.</p> <p> >  Source > Connection Guide > Video Device > HDMI</p> <p>To connect the TV with your PC, make sure that your PC's graphic card supports UHD resolutions.</p>
<p>The picture is distorted</p>	<p>The compression of video content may cause picture distortions, especially in fast moving pictures from sports programs and action movies.</p> <p>If the signal reception is weak or poor, screen distortion may be visible but it is not a malfunction.</p> <p>Mobile phones used close to the TV (within 3.2 ft) may cause noise on analog and digital channels.</p>
<p>The color is wrong or missing</p>	<p>If you're using a Component connection, make sure that the Component cables are connected to the correct jacks.</p> <p>Incorrect or loose connections may cause color problems or a blank screen.</p>
<p>The color is poor or the picture is not bright enough</p>	<p>Go to Picture and then adjust the Picture Mode, Brightness, Sharpness, and Color settings.</p> <p> >  Settings > Picture > Picture Mode</p> <p> >  Settings > Picture > Expert Settings > Brightness</p> <p> >  Settings > Picture > Expert Settings > Sharpness</p> <p> >  Settings > Picture > Expert Settings > Color</p> <p>See if Power Saving Mode has been enabled.</p>









The problem	The problem
	<p> > Settings > General > Eco Solution > Power Saving Mode</p> <p>Try resetting the picture.</p> <p> > Settings > Picture > Expert Settings > Reset Picture</p>
There is a dotted line on the edge of the screen	<p>Change Picture Size Settings to 16:9 Standard.</p> <p> > Settings > Picture > Picture Size Settings > 16:9 Standard</p>
The picture is black and white	<p>Check whether Greyscale is set to On.</p> <p> > Settings > General > Accessibility > Greyscale</p>
The picture won't display in full screen	<p>HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content.</p> <p>Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV.</p> <p>Adjust the picture size options on your external device or set the TV to full screen.</p> <p> > Settings > Picture > Picture Size Settings > Picture Size</p>
The Subtitle function in the TV menu is deactivated	<p>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.</p>
Subtitle appear on the TV screen	<p>Turn off the subtitle function in subtitle Settings.</p> <p> > Settings > General > Accessibility > Subtitle Settings > Subtitle</p>
The HDR of the connected external device turns off	<p>Expand the reception range of the corresponding HDMI input signal in Input Signal Plus.</p> <p> > Settings > General > External Device Manager > Input Signal Plus</p>

Sound and Noise Issues

Testing the sound







The problem	Try this!
<p>How can I connect an audio device to the TV?</p>	<p>The connection method may differ depending on the audio device, such as HDMI (eARC), Optical, Bluetooth, and Wi-Fi.</p> <p>For more information about how to connect an audio device, run Connection Guide.</p> <p> >  Source > Connection Guide > Audio Device</p>
<p>There is no sound or the sound is too low at maximum volume.</p>	<p>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.</p> <p>Check the cable connection between an external device and the TV and then try cable connection again.</p>
<p>The picture is good but there is no sound.</p>	<p>Set Sound Output to TV Speaker.</p> <p> >  Settings > Sound > Sound Output</p> <p>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.</p> <p>To listen to computer sound, connect an external speaker to the computer's audio output connector.</p> <p>If your TV has a headphone jack, make sure there is nothing plugged in.</p> <p>Reboot the connected device by disconnecting and then reconnecting the device's power cable.</p> <p>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.</p>
<p>No sound is heard.</p>	<p>Check whether Digital Output Audio Format is set to Pass-Through.</p> <p>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.</p> <p>It is recommended to set Digital Output Audio Format to Auto when the connected receiver supports only the limited audio formats.</p> <p> >  Settings > Sound > Expert Settings > Digital Output Audio Format Auto</p>

The problem	Try this!
<p>The speakers are making an odd sound.</p>	<p>Run Sound Test.</p> <p>Home > Settings > Support > Device Care > Self Diagnosis > Sound Test</p> <p>Make sure that the audio cable is connected to the correct audio output connector on the external device.</p> <p>For antenna or cable connections, check the Signal Information. A low signal level may cause sound distortions.</p> <p>Home > Settings > Support > Device Care > Self Diagnosis > Signal Information</p>
<p>The sound is interrupted.</p>	<p>The sound may frequently be interrupted when a Bluetooth speaker is used. Make sure that the Bluetooth speaker and the wireless access point are in a straight line, and the Bluetooth speaker is placed as close as possible to the TV.</p> <p>To minimize interruptions, we recommend a wireless access point that uses a 5 GHz frequency.</p> <p>When the symptom persists, it is recommended to use wired connections such as HDMI eARC and Optical.</p>
<p>Whenever a function is used on the TV or the channel is changed, the TV voices the activity.</p> <p>The TV explains in voice-over the video scenes displayed on the screen.</p>	<p>Turn off the Voice Guide function in Voice Guide Settings.</p> <p>Home > Settings > General > Accessibility > Voice Guide Settings > Voice Guide</p>

The problem	Try this!
<p>The TV audio is not being played through the AV receiver.</p>	<p>Check the A/V receiver's power supply and its settings.</p> <ul style="list-style-type: none"> • 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.
<p>The sound is not heard clearly.</p>	<p>Change to an appropriate sound mode.</p> <p> >  Settings > Sound > Sound Mode</p> <p>When Intelligent Mode and Adaptive Sound+ are turned on, the sound effects are automatically adjusted to the surroundings.</p> <p> >  Settings > General > Intelligent Mode Settings > Intelligent Mode</p> <p>To optimise the sound depending on the surroundings, select Adaptive Sound+.</p> <p> >  Settings > General > Intelligent Mode Settings > Adaptive Sound+</p>
<p>The volume of the external device cannot be adjusted.</p>	<p>Check the cable connection between the TV and the external device.</p> <p>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)</p>
<p>I want to turn off and on the TV and audio device at the same time.</p>	<p>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 Samsung Soundbar model.</p> <p>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.</p>





Channel and Broadcast Issues









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

The problem	Try this!
<p>"Weak or No Signal" displayed in TV mode or cannot find channel.</p>	<p>Make sure that the external device is connected securely and turn on. Move to Sources to switch to other input sources.</p> <p> >  Source > Sources</p> <p>When using a set-top box or cable box, check the broadcast signal and the network that is connected to the external device.</p>
<p>The TV is not receiving all channels.</p>	<p>Confirm that the coaxial cable is securely connected to the TV. Run Reset or Auto Program.</p> <p> >  Settings > General > Reset</p> <p> >  Settings > Broadcasting > Auto Program</p>
<p>The subtitles are not provided on a digital channel.</p>	<p>When watching channels with the antenna cable connected, run Subtitle Settings.</p> <p>Some channels may not have subtitle data.</p>
<p>I want to turn off the subtitles.</p>	<p>When watching a channel on an external device such as set-top box and cable box, turn on the subtitle function on the device. For more information, contact your service provider.</p>
<p>Broadcasting is deactivated.</p>	<p>Broadcasting is only available when Source is set to TV.</p> <p>Broadcasting cannot be accessed while you watch TV using a cable box or satellite box.</p> <p>Broadcasting cannot be accessed while a recording is in progress or the Timeshift function is running.</p>

External Device Connectivity Issues

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

The problem	Try this!
The "Mode Not Supported" message appears.	Adjust the output resolution of the external device to a resolution supported by the TV.
The video is OK but there is no audio.	<p>If you are using an HDMI connection, check the audio output settings on your PC.</p> <p>If you are using a DVI to HDMI cable, a separate audio cable is required.</p> <p>To listen to the computer sound, connect external speakers to the audio output connection of the computer.</p>
I want to connect to a PC and mobile device via screen mirroring.	<p>To wirelessly connect the TV to your PC, read the instructions at Screen Sharing (Wireless) in Connection Guide, and then try to connect.</p> <p> >  Source > Connection Guide > PC > Screen Sharing (Wireless)</p> <p>Confirm that the TV and your PC are connected to the same network.</p> <p>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.</p> <p> >  Source > Connection Guide > Smartphone > Screen Sharing (Smart View)</p> <p>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.</p>



The problem	Try this!
<p>No screen appears when connecting the TV to an external device.</p>	<p>For more information about how to connect an external device, run the Connection Guide.</p> <p> >  Source > Connection Guide</p> <p>Make sure that the external device is connected securely and turned on. Move to Sources to switch to other input sources.</p> <p> >  Source > Sources</p> <p>Using HDMI Troubleshooting, you can check the connection to HDMI cable and external devices (takes approximately 2 minutes).</p> <p> >  Source > Connection Guide > Video Device > HDMI Troubleshooting</p> <p>When using a set-top box or cable box, check the broadcast signal and the network that is connected to the external device.</p>
<p>I want to connect to a Bluetooth speaker.</p>	<p> >  Source > Connection Guide > Audio Device > Bluetooth</p>
<p>The PC screen does not appear or it flickers.</p>	<p>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.</p> <p>When the set resolution is not matched, the screen may flicker. For PC supported resolution, see 'Read Before Connecting a Computer (Supported Resolutions).'</p>

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](#)









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

The problem	Try this!
Wireless network connection failed.	<p>Make sure that no items that can generate electromagnetic interferences are placed between the TV and the wireless/wired access point.</p> <p>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.</p> <p>Enter the correct password if required.</p> <p>If the wireless connection fails, connect the TV to the access point using a LAN cable.</p> <p>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.</p>
Wired network connection failed.	<p>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.</p>
Auto IP configuration failed.	<p>Check if the LAN cable is plugged in on both ends. If it is plugged in, check if the access point is turned on.</p> <p>If the access point is on, turn it off, wait 1 or 2 minutes, and then turn it on.</p> <p>Disconnect and then reconnect the power cable of the TV or press and hold the power button for 3 seconds.</p>
Unable to connect to the network.	<p>Disconnect and then reconnect the power cable of the TV, or press and hold the power button for 3 seconds.</p>
Connected to a local network, but not to the Internet.	<ol style="list-style-type: none"> 1. Check if the Internet LAN cable is connected to the access point or external LAN port. 2. Check the DNS setting in IP Settings. <p> >  Settings > General > Network > Network Status > Settings</p>
Network setup is completed, but unable to connect to the Internet.	<p>If the problem persists, contact your Internet service provider.</p>



Anynet+ (HDMI-CEC) Issues

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



The problem	Try this!
What is Anynet+?	<p>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 use the TV remote control to turn the connected device on or off when you turn the TV on or off.</p>
Anynet+ does not work.	<p>Confirm that the device is an Anynet+ device. The Anynet+ system supports only Anynet+ devices only.</p> <p>Check if the power cord of the Anynet+ device is properly connected.</p> <p>Check the cable connections of the Anynet+ device.</p> <p>Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been turned On.</p> <p> >  Settings > General > External Device Manager > Anynet+ (HDMI-CEC)</p> <p>Anynet+ may not function when some other functions are active, including Channel Search, Smart Hub, Initial Setup, etc.</p> <p>If you have disconnected and then reconnected the HDMI cable, scan for devices again or turn your TV off and on.</p>
<p>I want to start Anynet+.</p> <p>I also want the connected devices to turn on when the TV is turned on.</p>	<p>Move the focus to the Anynet+ device at  >  Source, press the directional button to move to Anynet+ (HDMI-CEC), and then press the Select button.</p> <p>Check if the Anynet+ device is properly connected to the TV, and then select the Anynet+ (HDMI-CEC) menu to see if Anynet+ (HDMI-CEC) is set to On.</p> <p> >  Settings > General > External Device Manager > Anynet+ (HDMI-CEC)</p>
<p>I want to exit Anynet+.</p> <p>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.</p>	<p>To turn off the Anynet+ function of a device connected to the TV, turn off the Anynet+ (HDMI-CEC) function of the device.</p> <p> >  Settings > General > External Device Manager > Anynet+ (HDMI-CEC)</p> <p>When Anynet+ (HDMI-CEC) is turned off, the sound bar connected via 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 the HDMI-CEC function on a specific device connected to the TV.</p>
The message "Connecting to	<p>You cannot use the remote control when the TV is configuring Anynet+ or switching to the TV viewing screen.</p>



The problem	Try this!
Anynet+ device..." or "Disconnecting from Anynet+ device" appears on the screen.	Use the remote control after the TV has completed the Anynet+ configuration or has switched to the TV viewing screen.
The Anynet+ device won't play.	You cannot use the play function when Reset is in progress.
The connected device is not displayed.	<p>Check whether the device supports Anynet+.</p> <p>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+.</p> <p>Check whether the HDMI cable is properly connected.</p> <p>Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been turned On.</p> <p> >  Settings > General > External Device Manager > Anynet+ (HDMI-CEC)</p> <p>Scan for Anynet+ devices again.</p> <p>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.</p>

Remote Control Issues

The problem
The remote control does not work.
External devices cannot be operated with the TV remote control.

Recording Issues

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

Apps

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

The problem	Try this!
I launched an app, but it's in a different language. How can I change the language?	<p>Languages supported by an app may be different from the TV Language set in the menu.</p> <p>The ability to change the language depends on the app's provider.</p>
<p>The app does not work properly.</p> <p>Its image quality is poor.</p>	<p>Check the network connection. When the network speed is slow, the app may not work or its image quality may be poor.</p> <p>The services of your application are not provided by the TV but by the application service provider.</p> <p>Refer to the Help section on the application service provider's website.</p>










Media Files

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

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

Voice Assistant Issues

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





The problem	Try this!
<p>The voice commands do not work well.</p>	<p>Voice commands may differ depending on the Voice Assistant. Refer to the command examples for each Voice Assistant.</p> <p>Bixby:  > Explore Now</p> <p>Amazon Alexa:  >  Settings > General > Voice > Amazon Alexa Settings</p> <p>Google Assistant:  >  Settings > General > Voice > Google Assistant Settings</p>
<p>Bixby or Alexa answers automatically</p>	<p>The TV may recognise an ambient noise or everyday conversation as a call to Voice Assistant.</p> <p>Turn off the Voice Wake-up function or set the Wake-up Sensitivity to Low.</p> <p> > Explore Now >  Settings > Voice Wake-up</p>
<p>I spoke "Hi, Bixby" but Bixby does not answer.</p> <p>I spoke "Alexa" but Amazon Alexa does not answer.</p>	<p>The Samsung Smart Remote may not recognise your voice when you are far away from you, turned upside down, or located in an environment with loud ambient noise.</p> <ul style="list-style-type: none"> • Use the Samsung Smart Remote less than 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. <p>Turn on the Voice Wake-up function</p> <p> > Explore Now >  Settings > Voice Wake-up</p>
<p>With Samsung Smart Remote, the following features are available except for voice recognition.</p> <p>There is no response even if the voice entry button is pressed.</p>	<p>Try pairing the remote control with the TV.</p>
<p>During voice recognition, the heavy load message appears and the function does not work.</p>	<p>Unplug and then plug the TV power cable and then try again after one minute and 30 seconds. It may take a while if the voice recognition server is being inspected.</p>





The problem	Try this!
I want to see weather information of the desired area.	Say with the area name included.

Other issues

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



The problem	Try this!
The TV is hot.	<p>Watching TV for an extended period of time causes the panel to generate heat.</p> <p>The heat from the panel is dissipated through internal vents running along the top of the TV.</p> <p>The bottom, however, may feel hot to the touch after extended use.</p> <p>Children watching TV need constant adult supervision to prevent them from touching the TV.</p> <p>This heat, however, is not a defect and does not affect the TV's functionality.</p>
The TV smells like plastic.	This smell is normal and will dissipate over time.
The settings are lost after 5 minutes or every time the TV is turned off.	<p>If Usage Mode is set to Retail Mode, the TV's audio and video settings are automatically reset every 5 minutes.</p> <p>Change Usage Mode to Home Mode.</p> <p> >  Settings > General > System Manager > Usage Mode</p>
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.
The stand is wobbly or crooked.	Refer to the Quick Setup Guide and make sure that the stand is assembled correctly.
PIP is not available.	<p>PIP is available only when an external device is connected with an HDMI or Component cable.</p> <p>Note that the function is unavailable when Smart Hub is active.</p> <ul style="list-style-type: none"> • This function may not be supported depending on the model or geographical area.
A POP (TV's internal banner ad) appears on the screen.	<p>Change Usage Mode to Home Mode.</p> <p> >  Settings > General > System Manager > Usage Mode</p>

The problem	Try this!
The TV is making a popping noise.	<p>The expansion and contraction of the TV's outer casing may cause popping noise.</p> <p>This does not indicate a product malfunction.</p> <p>The TV is safe to use.</p>
The TV is making a humming noise.	<p>Your TV utilizes high-speed switching circuits and high level electrical current. Depending on the TV's brightness level, the TV seem slightly noisier than a conventional TV.</p> <p>Your TV has undergone strict quality control procedures that meet demanding performance and reliability requirements.</p> <p>Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund.</p>
The software update over the Internet has failed.	<p>Check the network connection status.</p> <p> >  Settings > General > Network > Network Status</p> <p>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.</p>
The TV narrates the screen events in voice-over.	<p>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:</p> <ul style="list-style-type: none"> • Press and hold the +/- (Volume) button on your Samsung Smart Remote. • Press the AD/SUBT. button on the standard remote control or press and hold the MUTE button. • Press the CC/VD button or press and hold the MUTE button on your standard remote control. <p> >  Settings > General > Accessibility > Voice Guide Settings Voice Guide</p>

Diagnosing TV operational issues

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



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

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

The problem
Cannot select Signal Information in Self Diagnosis.
Reset Smart Hub
Reset picture
Reset sound



FAQ

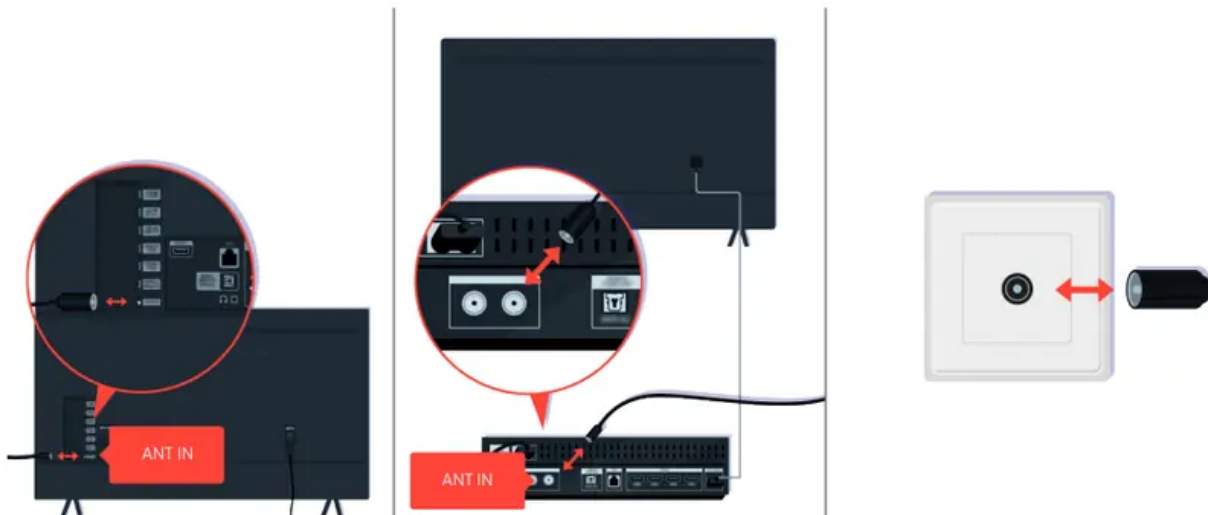
The TV Screen does not Display Properly

When the TV screen is bad, let's find out how to simply check whether the cause is caused by the product or the external environment by broadcasting signals and cables.

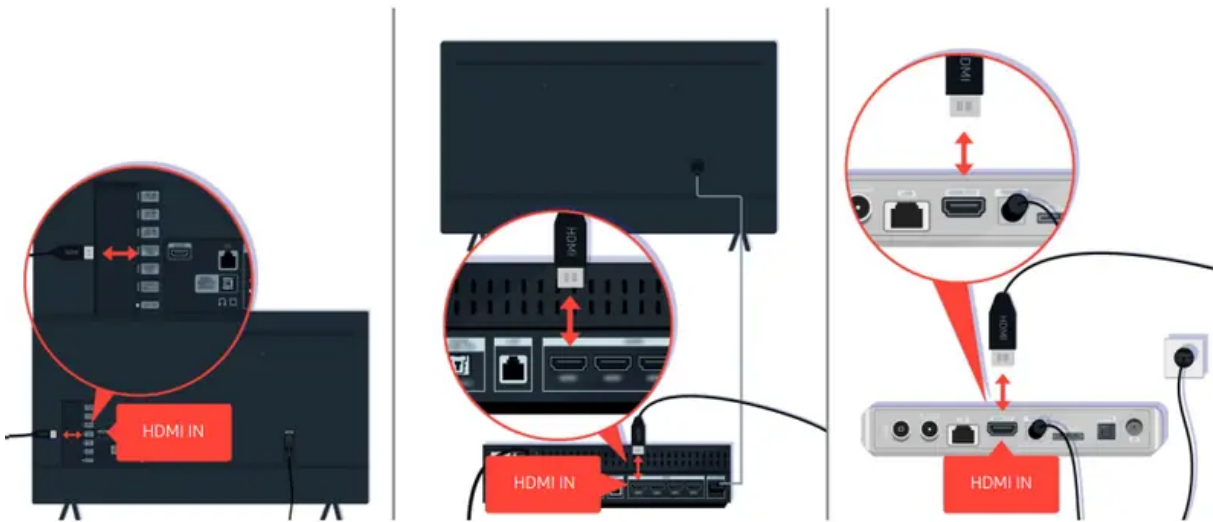
When the TV screen does not display properly



Check the antenna and input cable connections.



Check the antenna and input cable connections.



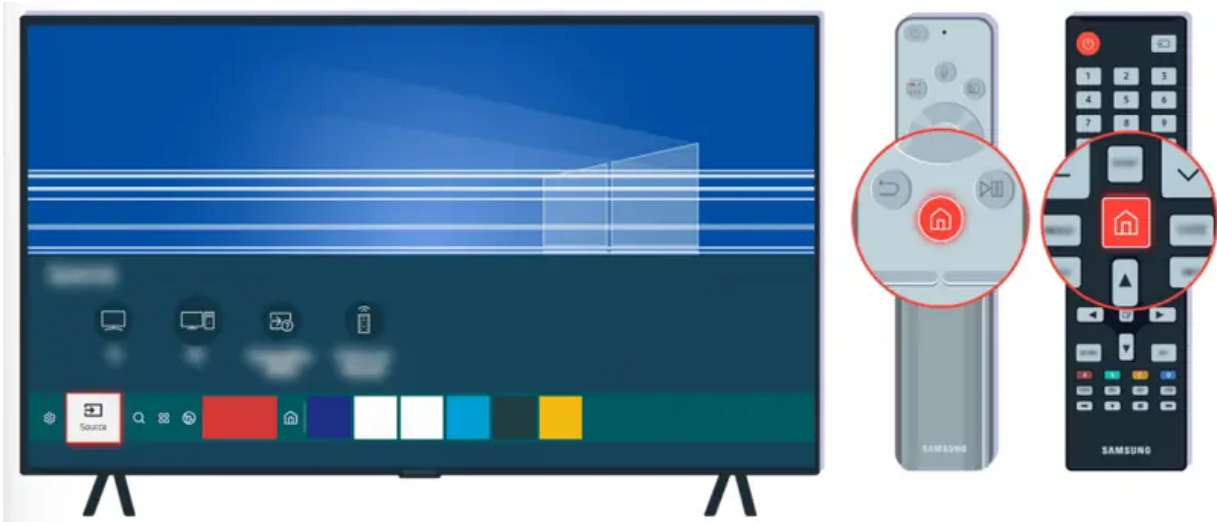
Check the antenna and HDMI cable connections.




If the issue persists, define exactly what is wrong with the display. For example, mosaics and blocks, multiple lines or white dots or fixed horizontal or vertical lines.




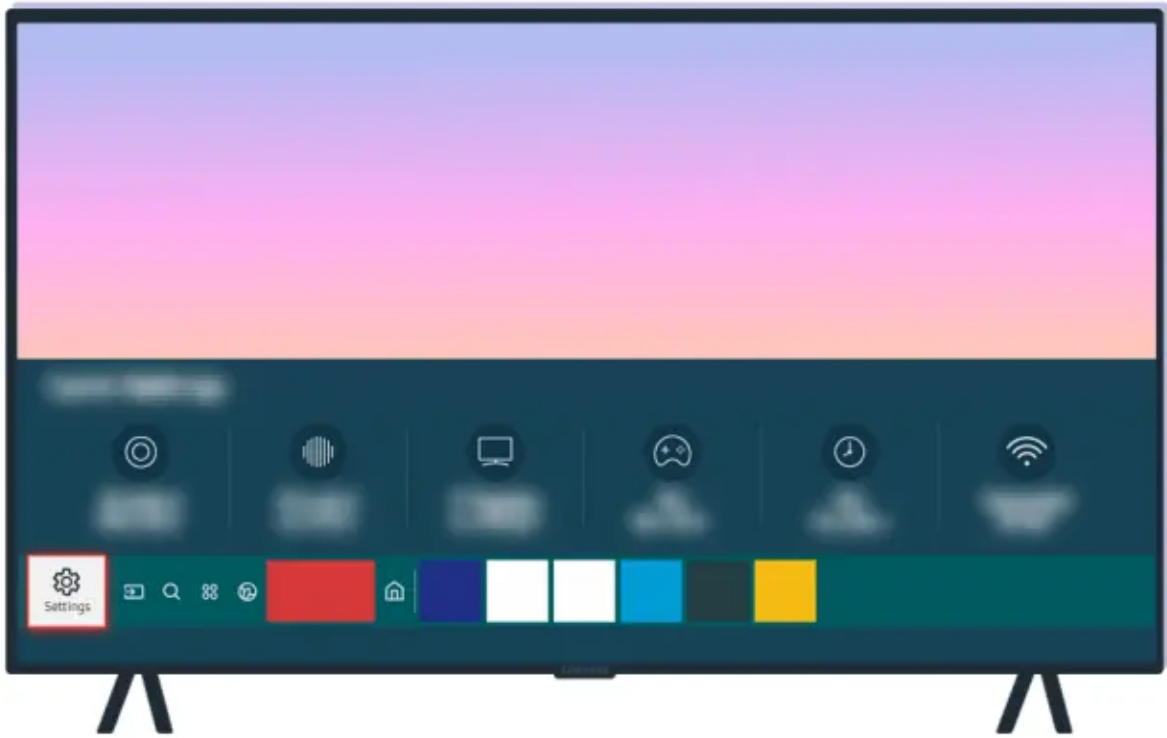
Try changing channels using the remote control.



Press the  button, select Source, choose another input source.

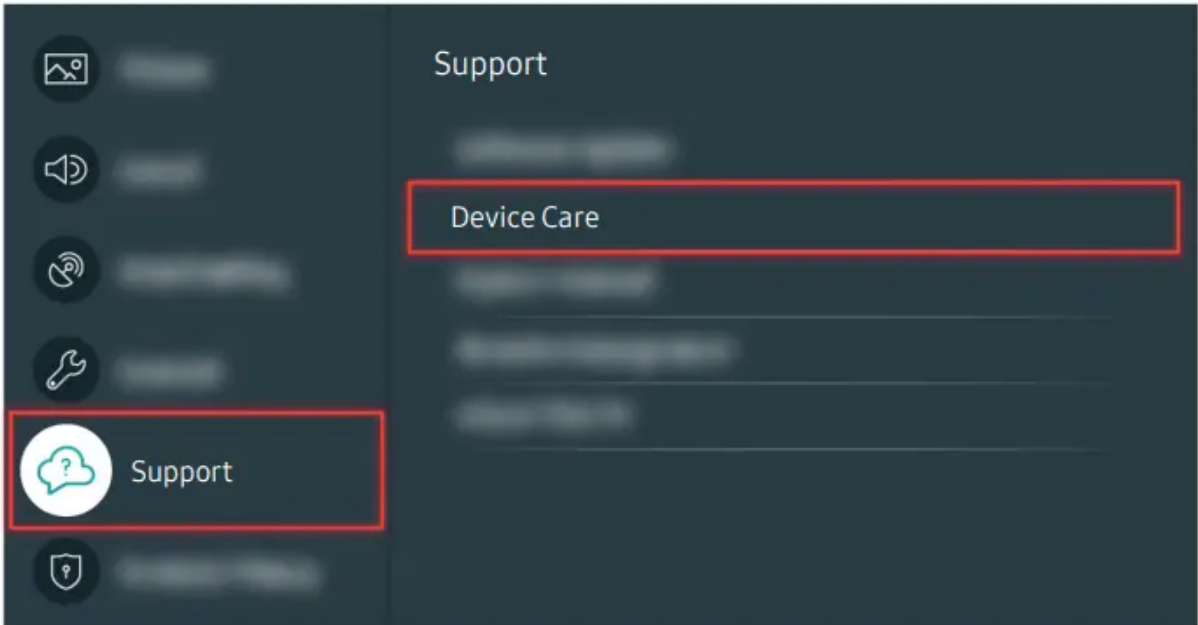


If the same problem persists, run a diagnostic test. On the remote control, press the  button.



Select

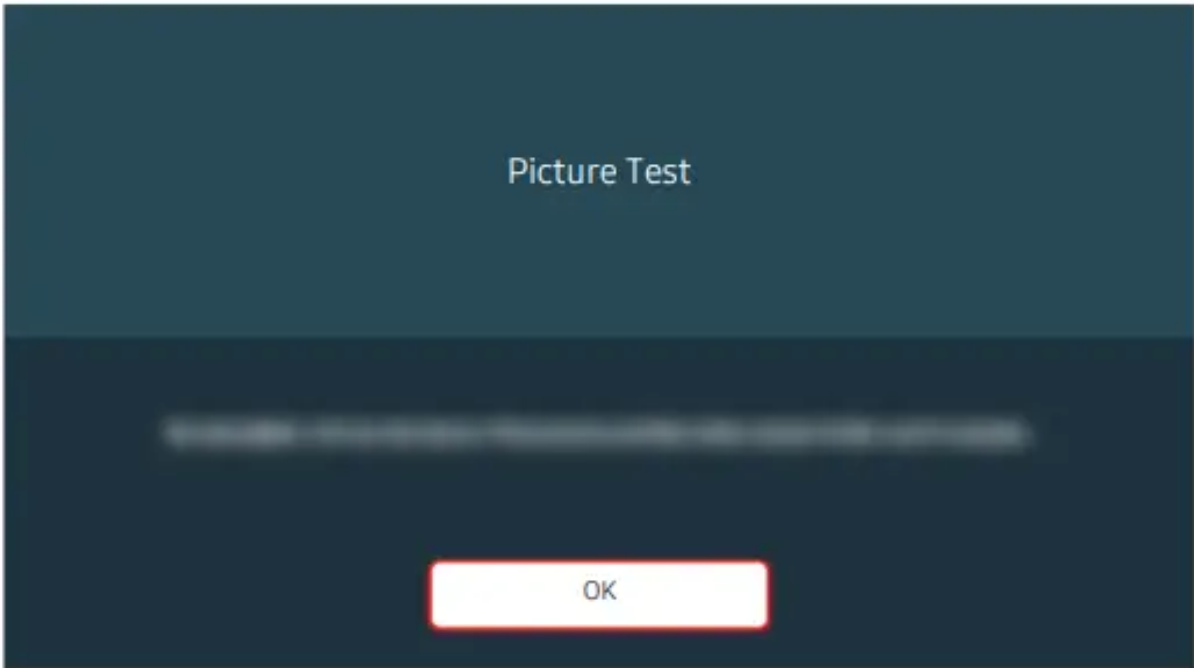
 >  **Settings** > **Support** > **Device Care** > **Self Diagnosis** > **Picture Test**.



Select

 >  **Settings** > **Support** > **Device Care** > **Self Diagnosis** > **Picture Test**.

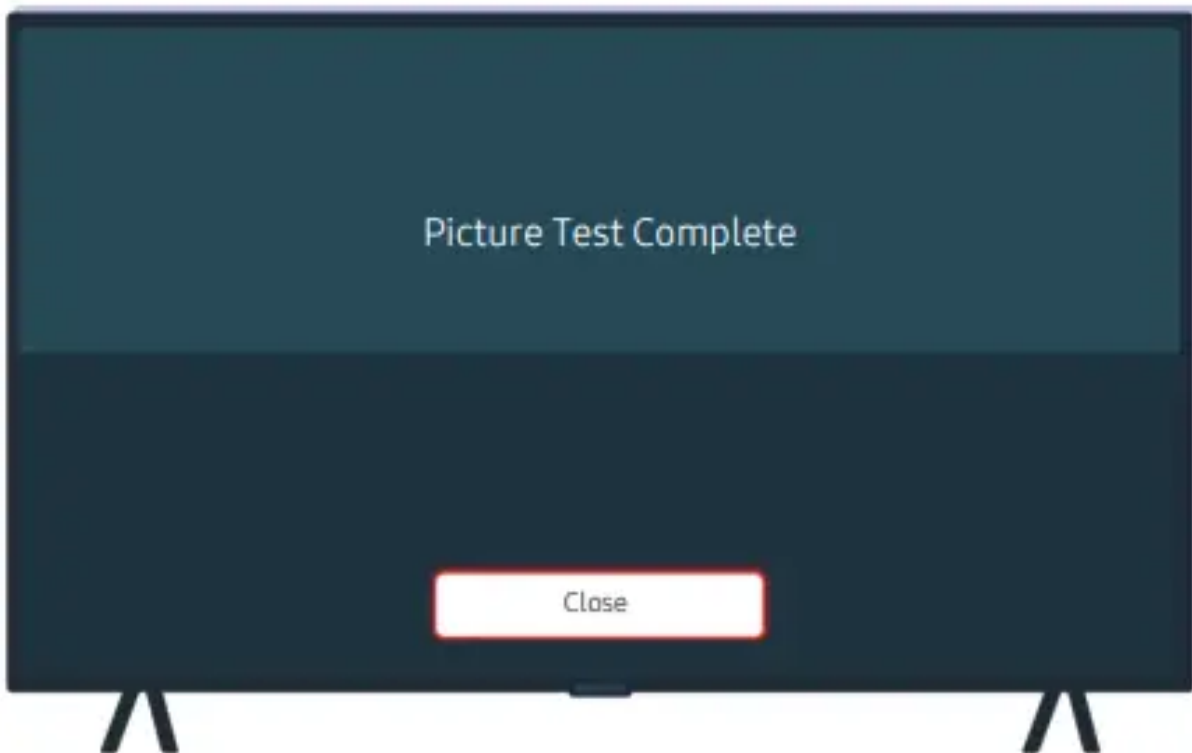




When a message appears, select OK and follow the on-screen instructions to complete the test.




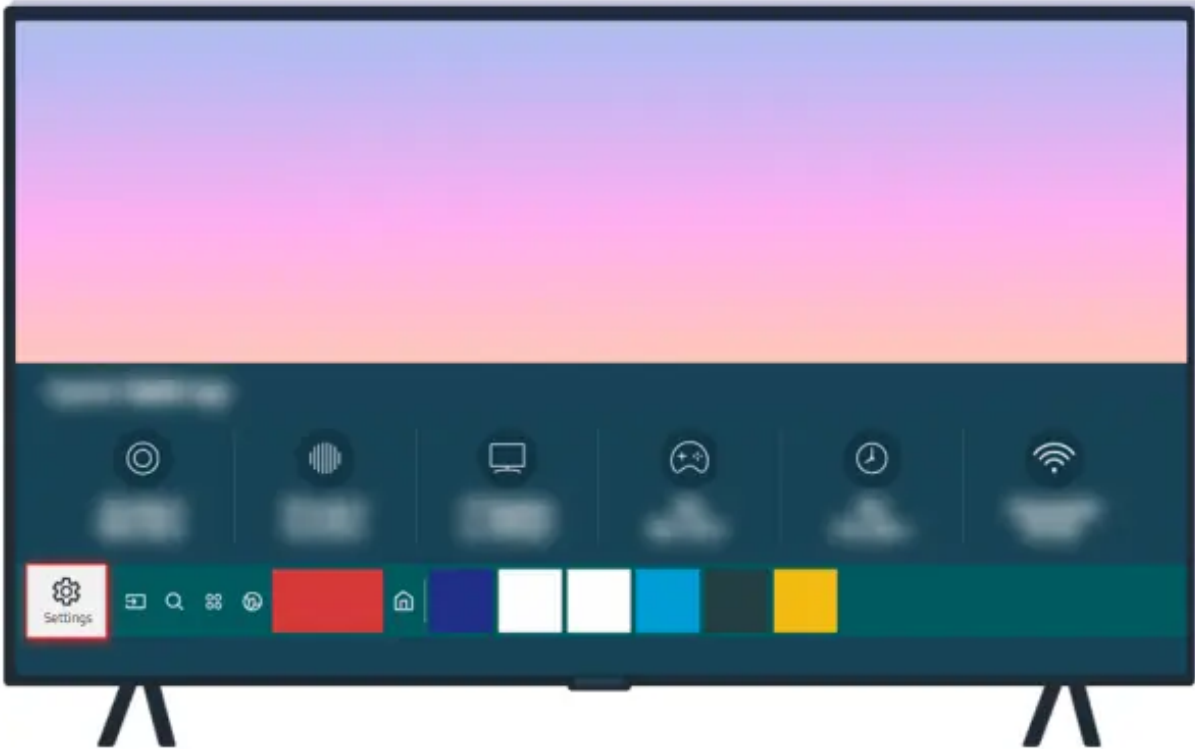
When a message appears, select OK and follow the on-screen instructions to complete the test.



When a message appears, select Close and follow the on-screen instructions to complete the test.

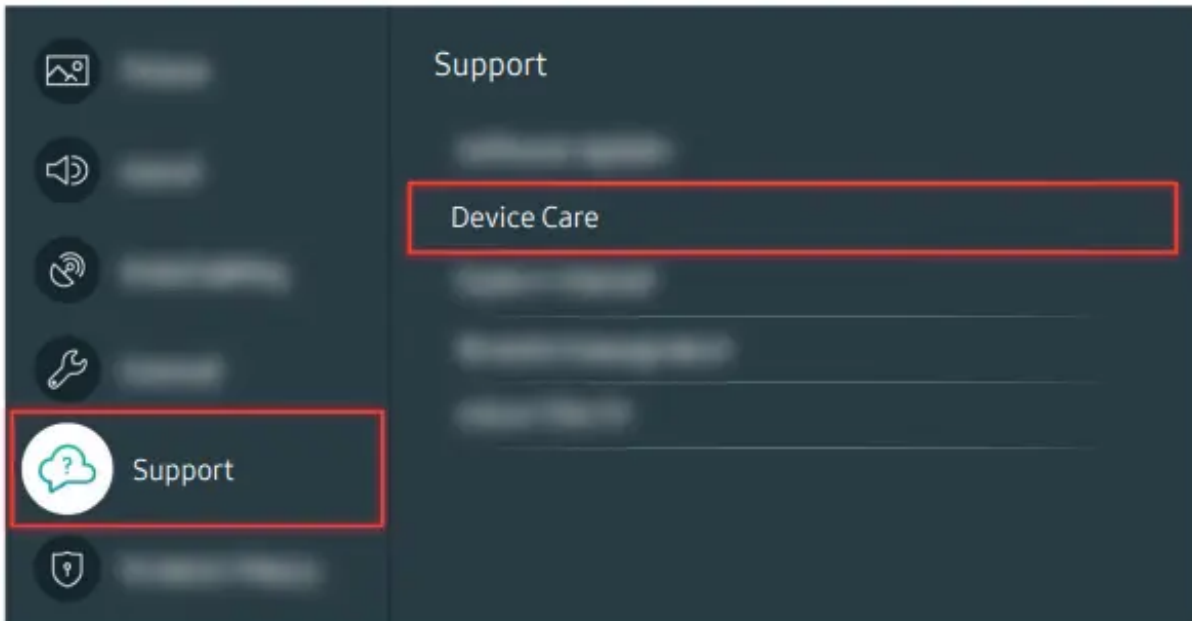


If the problem disappears during the test, check your TV signal. On the remote control, press the  button.



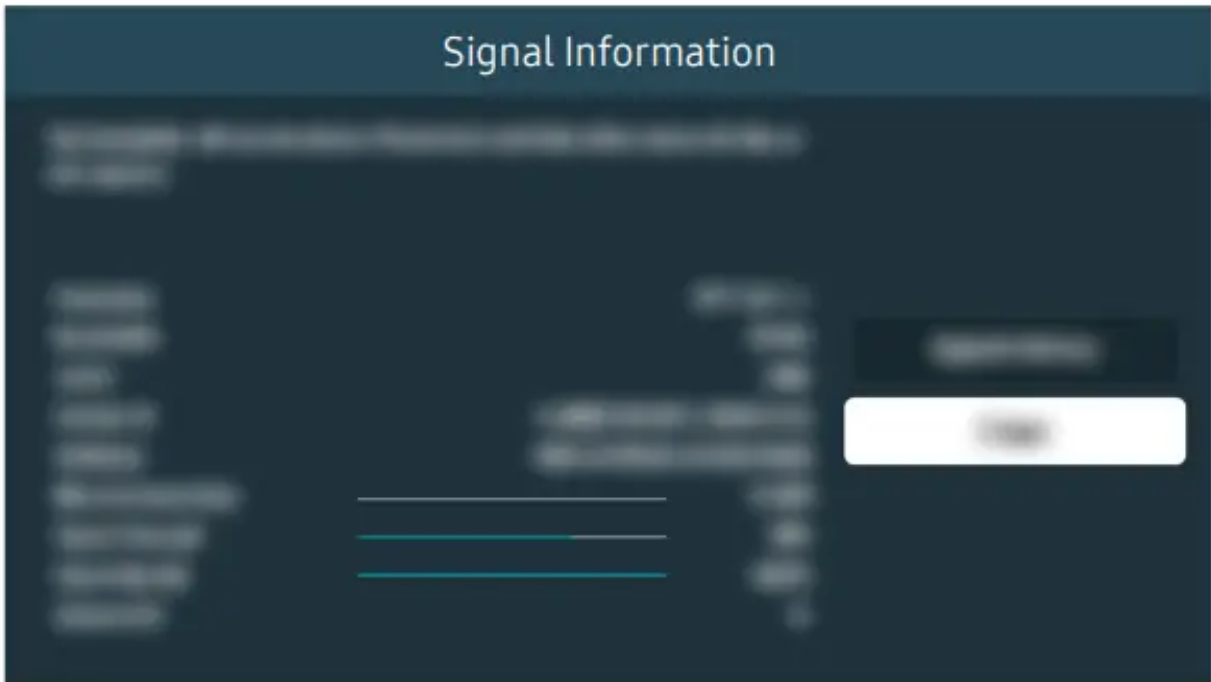
Select

 >  **Settings** > **Support** > **Device Care** > **Self Diagnosis** > **Signal Information** to check the signal strength.



Select

 >  **Settings** > **Support** > **Device Care** > **Self Diagnosis** > **Signal Information** to check the signal strength.



Check whether the signal strength is too weak or not.

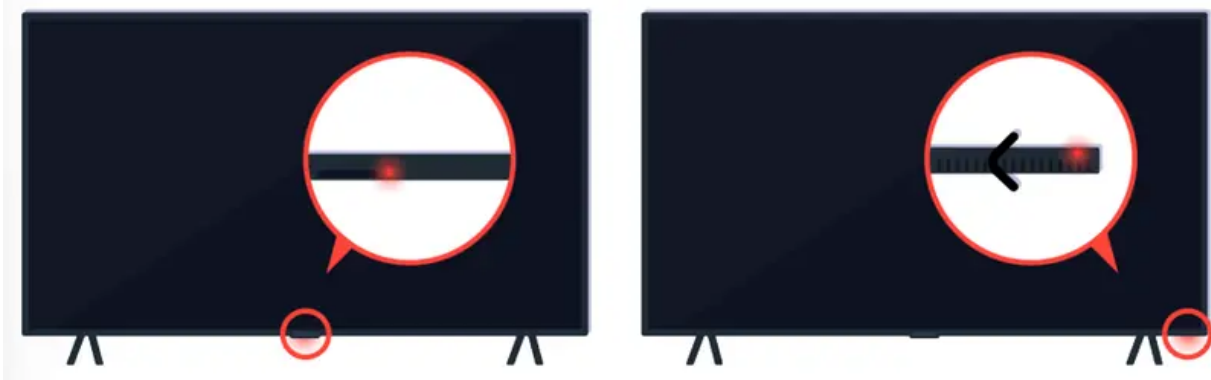
Related menu path



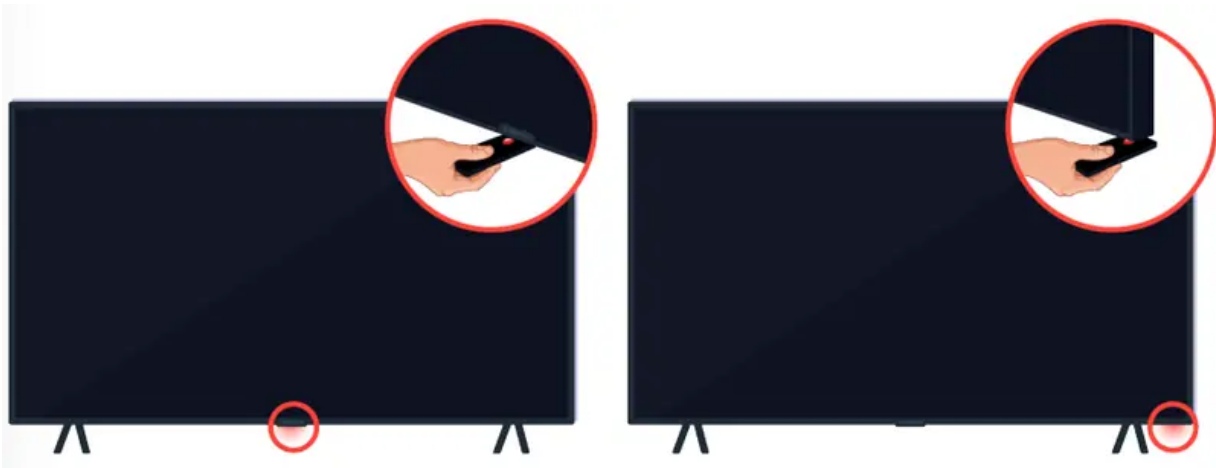
The TV does not Turn On

If there is no screen on the TV, it often occurs when the contact point of the power cable is loose or the peripheral device is turned off.

When your TV does not turn on



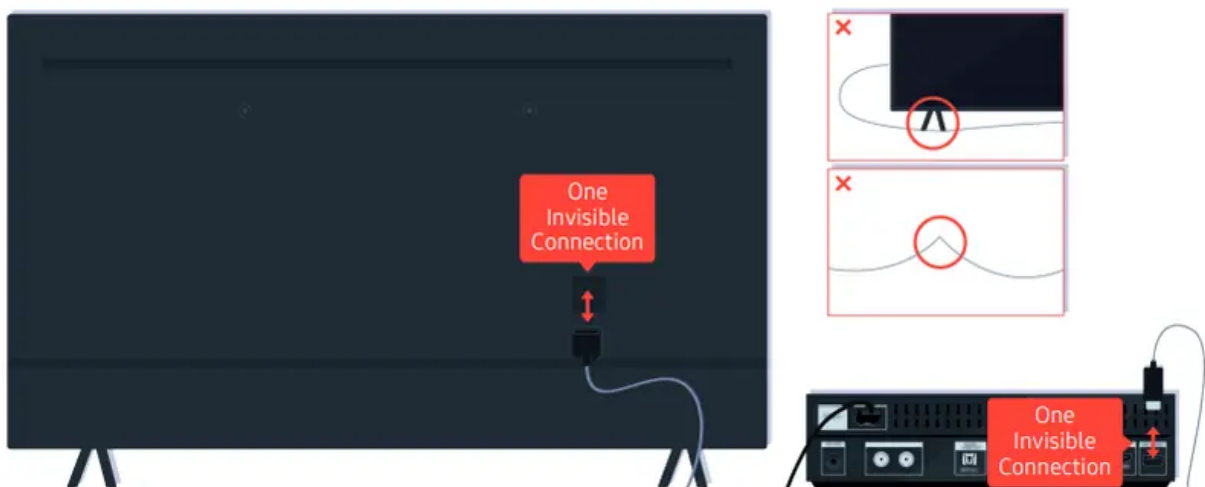
If your TV does not turn on, check whether the remote control sensor is on.



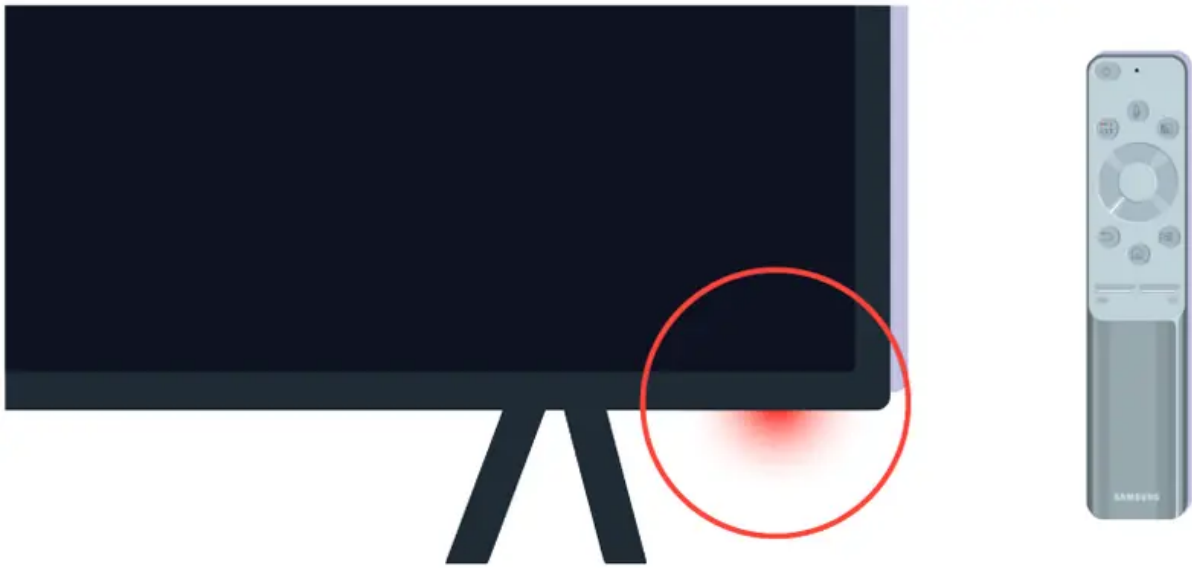
By holding a reflective object like mirror under the TV, you can easily find the remote control sensor.



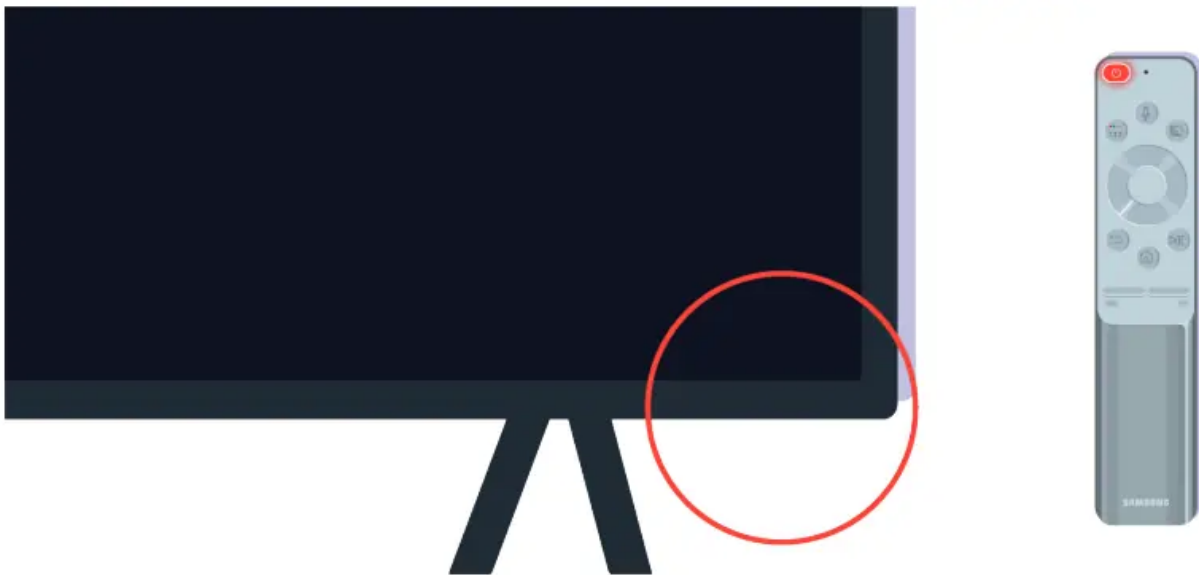
If the remote control sensor is not turned on, unplug the power cable and plug it back in.



Disconnect and reconnect the One Invisible Connection cable between the TV and the One Connect (OC) Box. Make sure that the One Invisible Connection cable is not pinched or bent sharply.



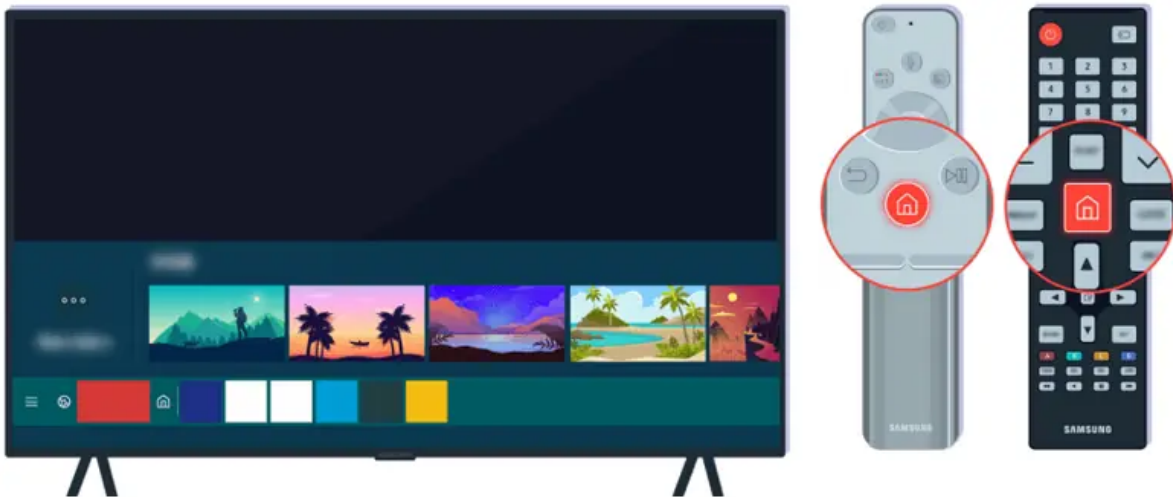
Check the remote control sensor again. If the LED is turned on, press the power button on your remote control to turn on your TV.




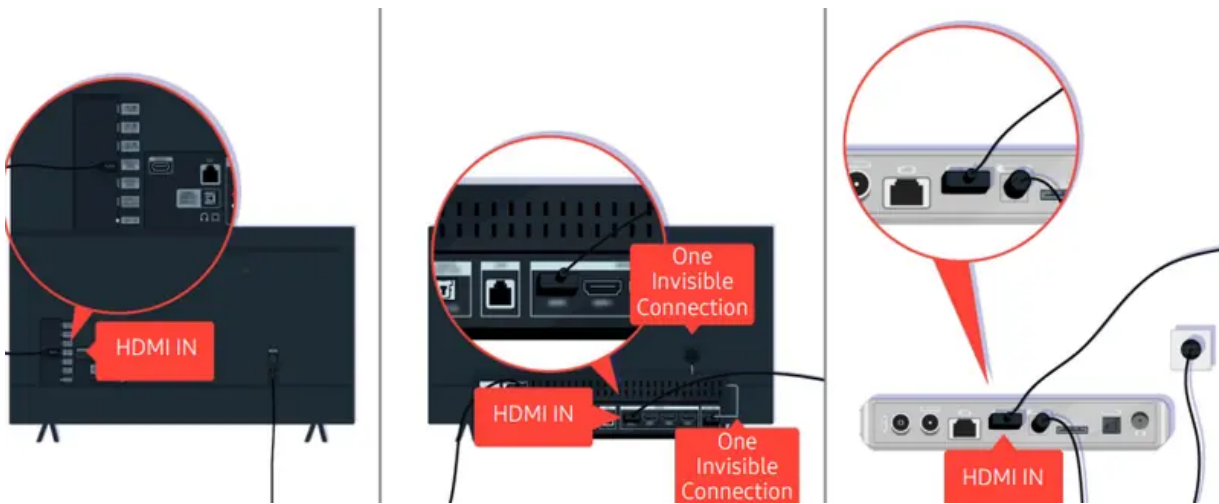
If the remote control sensor turns off when you press the power button, your TV is correctly connected to the power supply.



If the TV screen is still blank, softly tap it with your finger. If the part of the screen you tapped on blinks, your TV is correctly connected to the power supply.



On the remote control, press the  button. When the Home Screen appears, the TV is turned on but the connected external device does not work or any connection problem occurs.



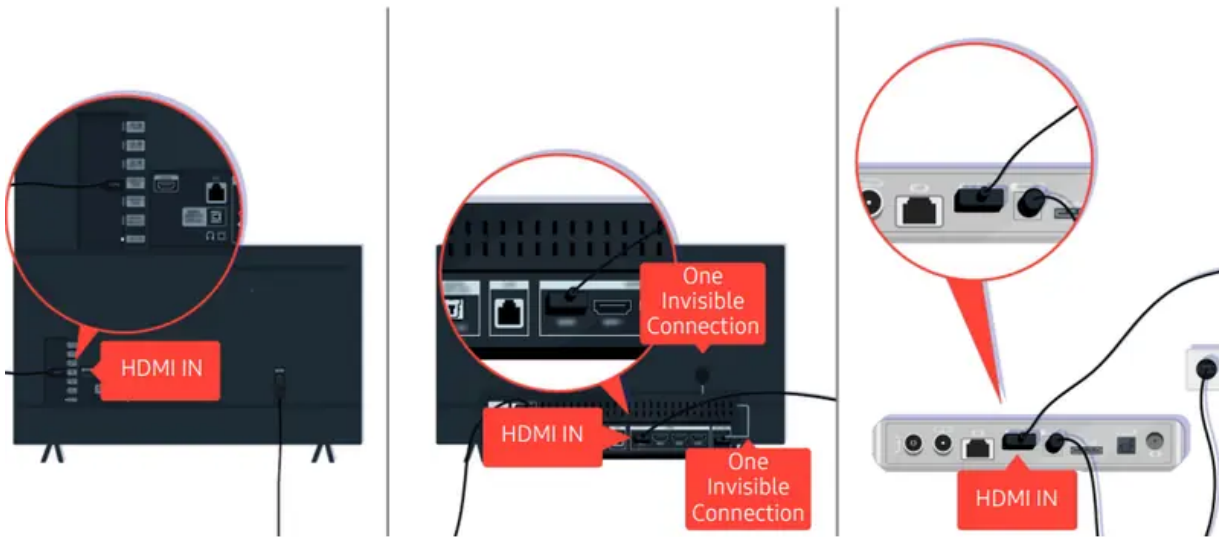
Check the connection of the HDMI cable to your TV or One Connect Box.



Make sure that the external device is turned on.



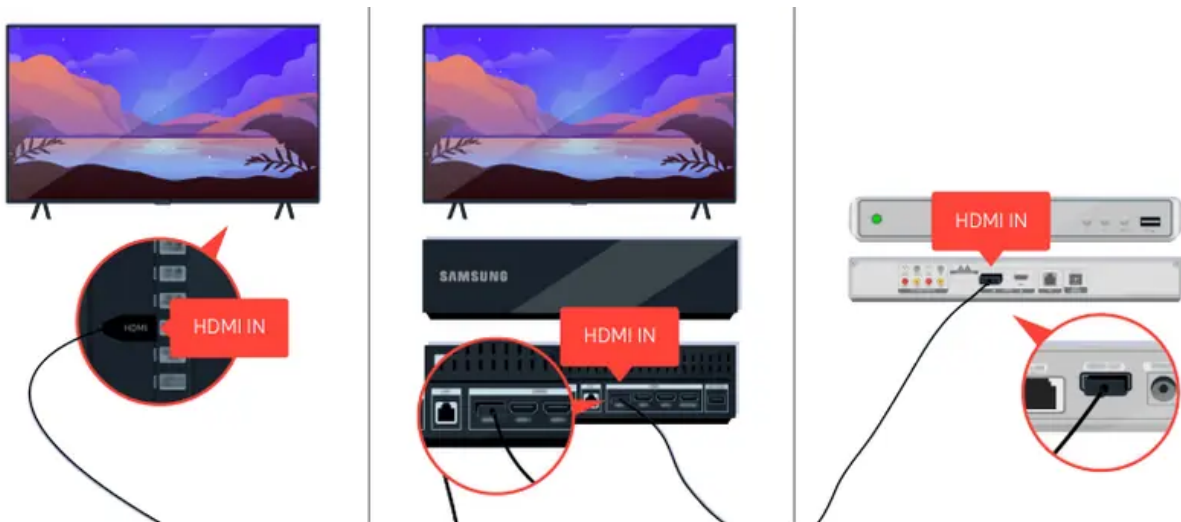
If it does not turn on, make sure the power cable is properly connected to the device and to the wall outlet.



Check the connection of the HDMI cable to your TV or One Connect Box.



Also make sure that the correct source is selected on the Home Screen (🏠 > 📺 Source).



If the same problem continues, try connecting another external device to the TV using an HDMI cable. If the display is correct, your external device may be faulty.



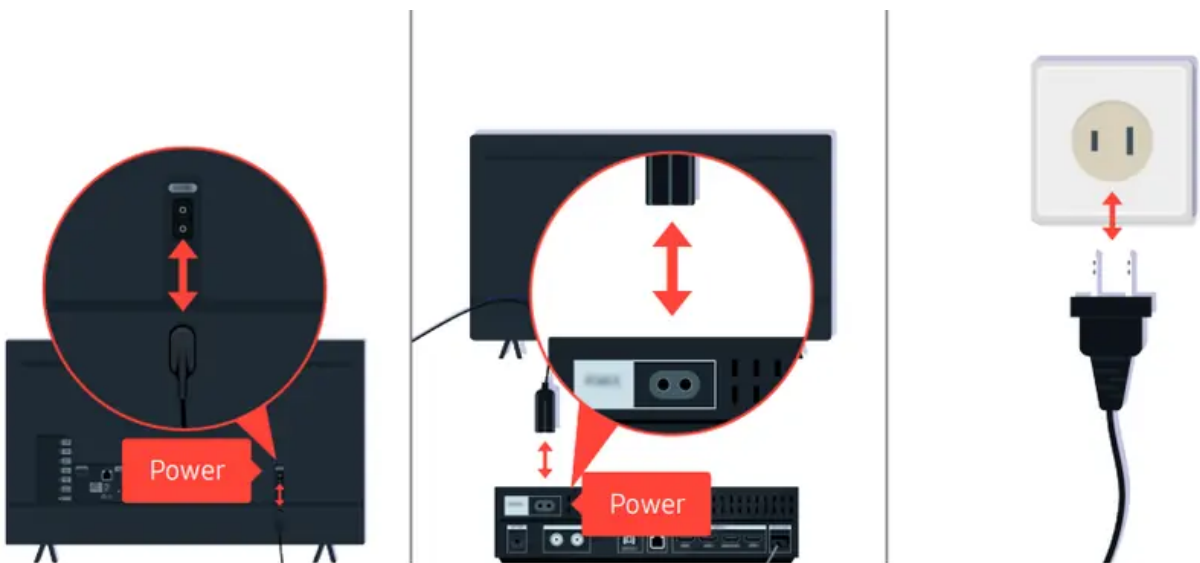
The Picture is Distorted, or No Sound Comes Out of the Sound Bar

No TV sound from the sound bar, or distorted TV picture are often caused by loose cable connections.

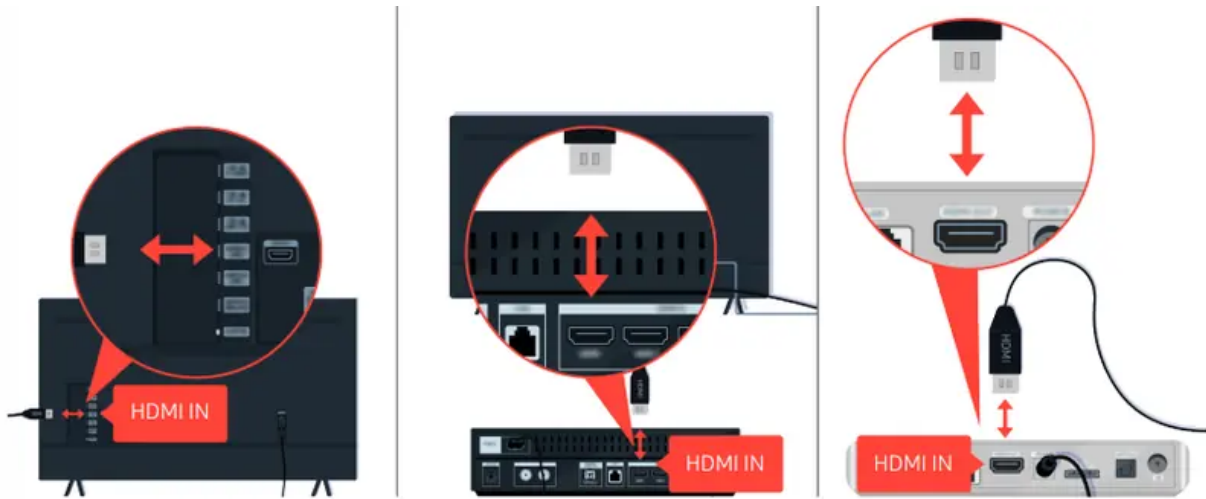
When the TV does not connect with an external device properly



When the picture looks distorted,



First disconnect and reconnect the power cables and HDMI cables on the back of your TV or the One Connect (OC) Box, then unplug the power cable and plug it back into the wall outlet.



First disconnect and reconnect the power cables and HDMI cables on the back of your TV or the One Connect (OC) Box, then unplug the power cable and plug it back into the wall outlet.



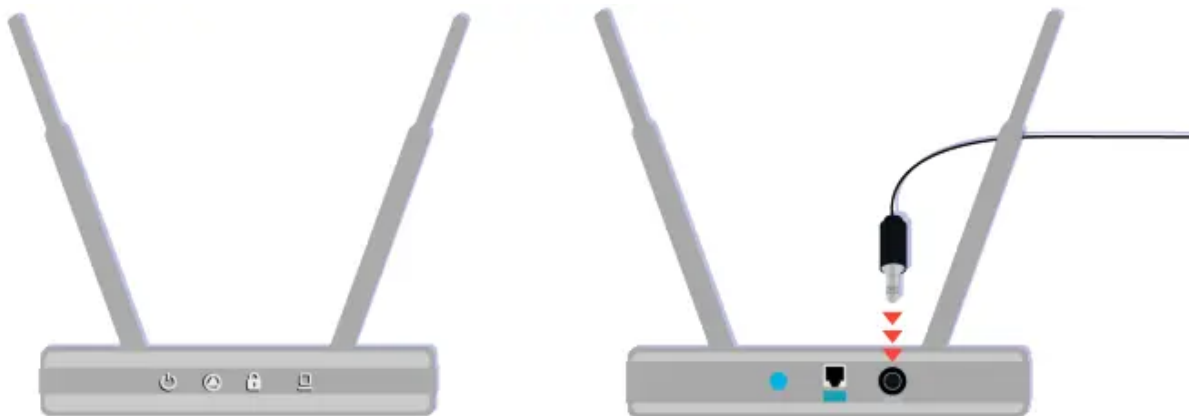
If the external device support 4K UHD or 8K UHD videos, use a dedicated HDMI cable for each resolution.



For better video quality, use an HDMI cable if your external device supports it.



If you are using a set-top box, check the cable connection. The cable you need to check depends on the type of set-top box.

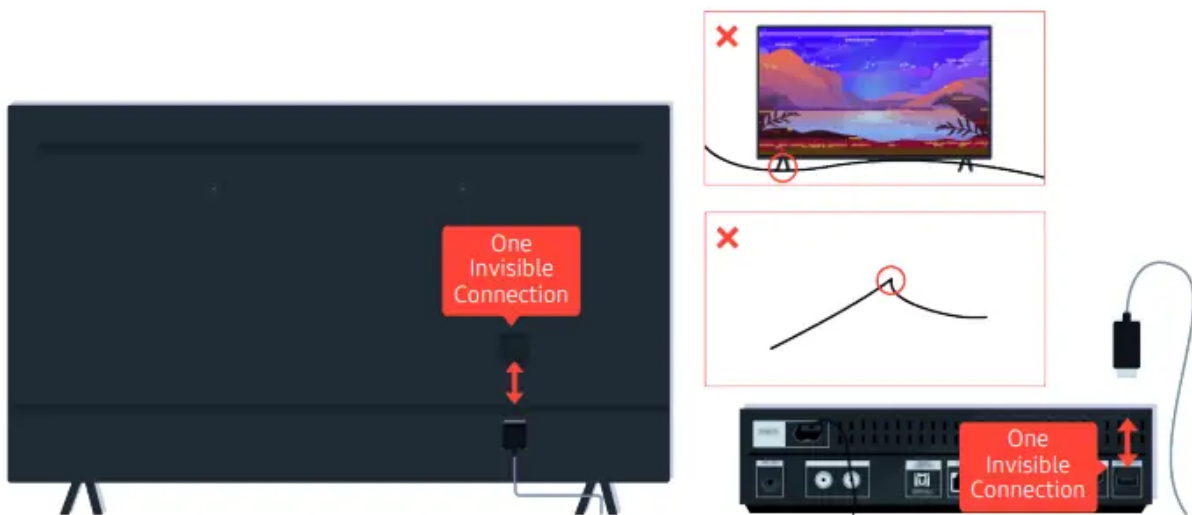


Make sure that your access point is connected to the Internet. If not, disconnecting and reconnecting its power cable may be required.



If the problem persists, check the video output settings in the settings menu of the external device and ensure that your TV supports the video output mode.

FHD TVs support up to 1080p video output and UHD TVs support up to 2160p video output.

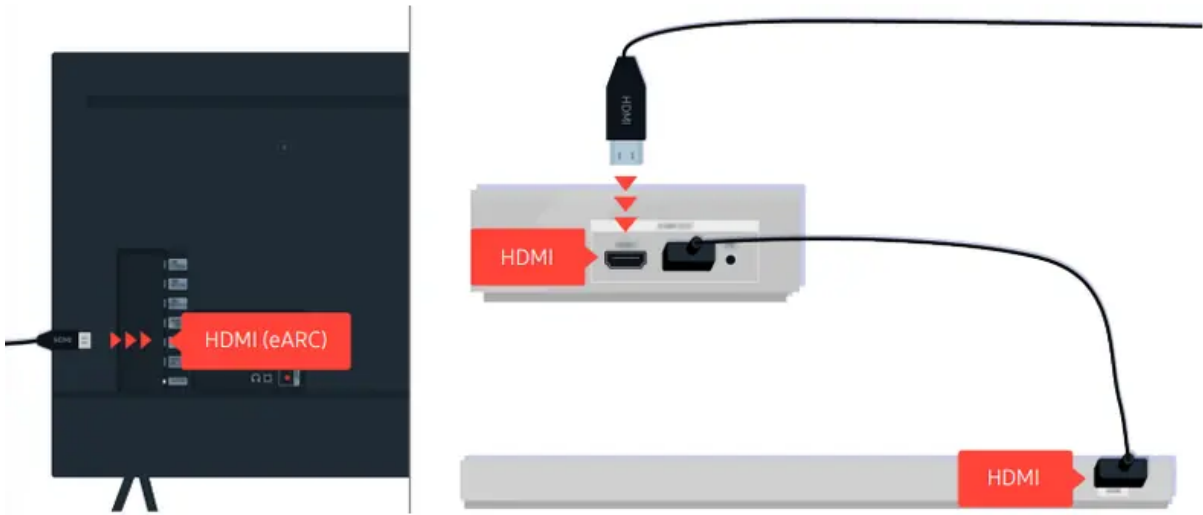


If the problem persists and if your TV uses the One Invisible Connection, disconnect and reconnect the One Invisible Connection to the TV and the One

Connect (OC) Box. Ensure that the One Invisible Connection is not pinched or bent sharply.



If no sound comes out of your Sound Bar and if it is connected to the TV with an HDMI cable, check the HDMI (eARC) connector on the back of the TV.

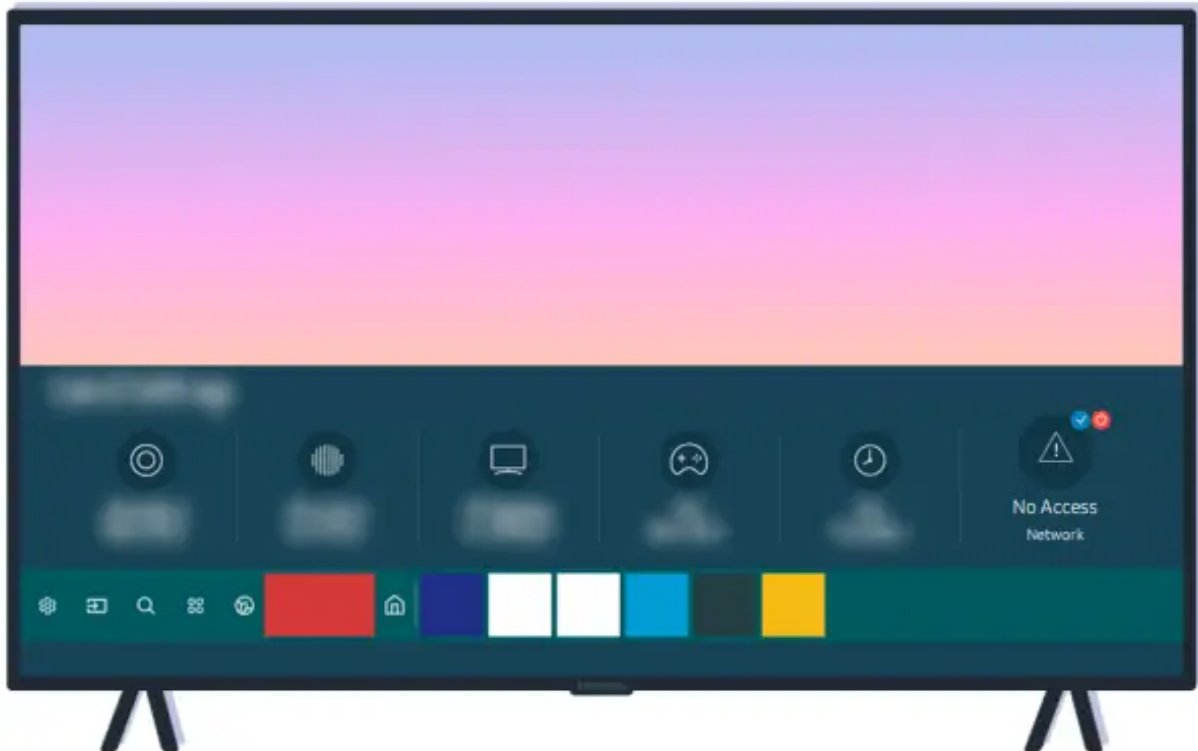


If your Sound Bar is connected to a receiver, and the receiver is connected to the TV using an HDMI cable, check the HDMI connector on the back of the TV. The cable must be connected to the HDMI (eARC) port on your TV

Internet Access is not Available


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

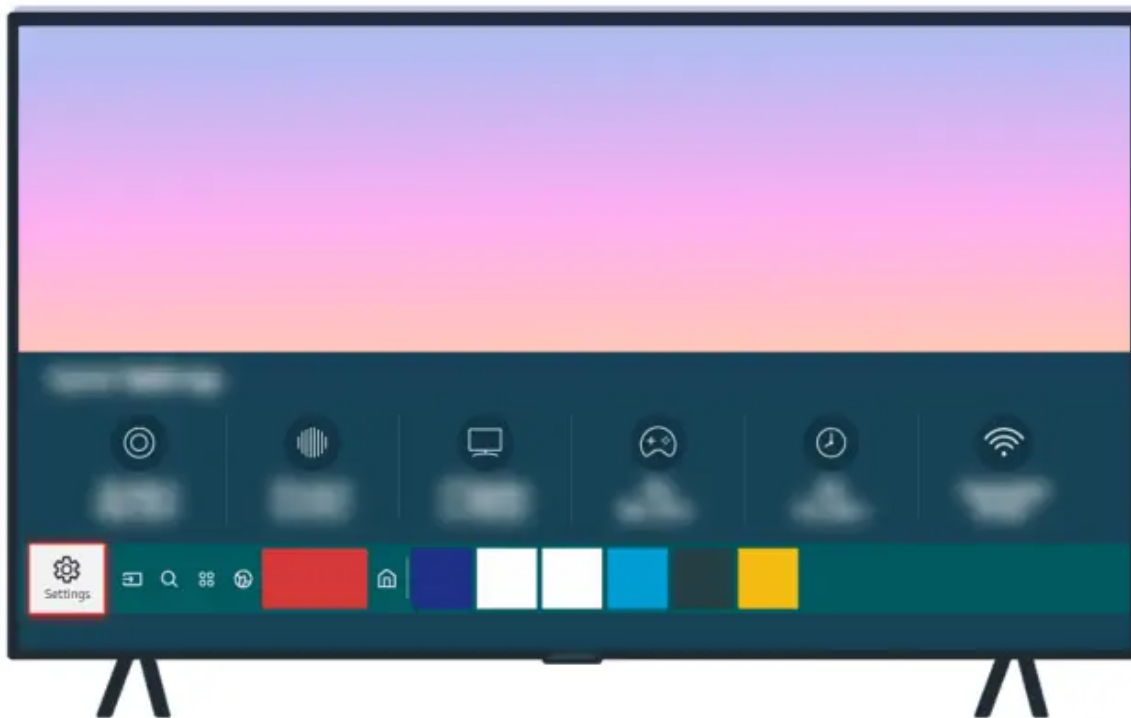
When the TV can't connect to the Internet



If your TV is not connected to the internet, check the network and the status of your access point.

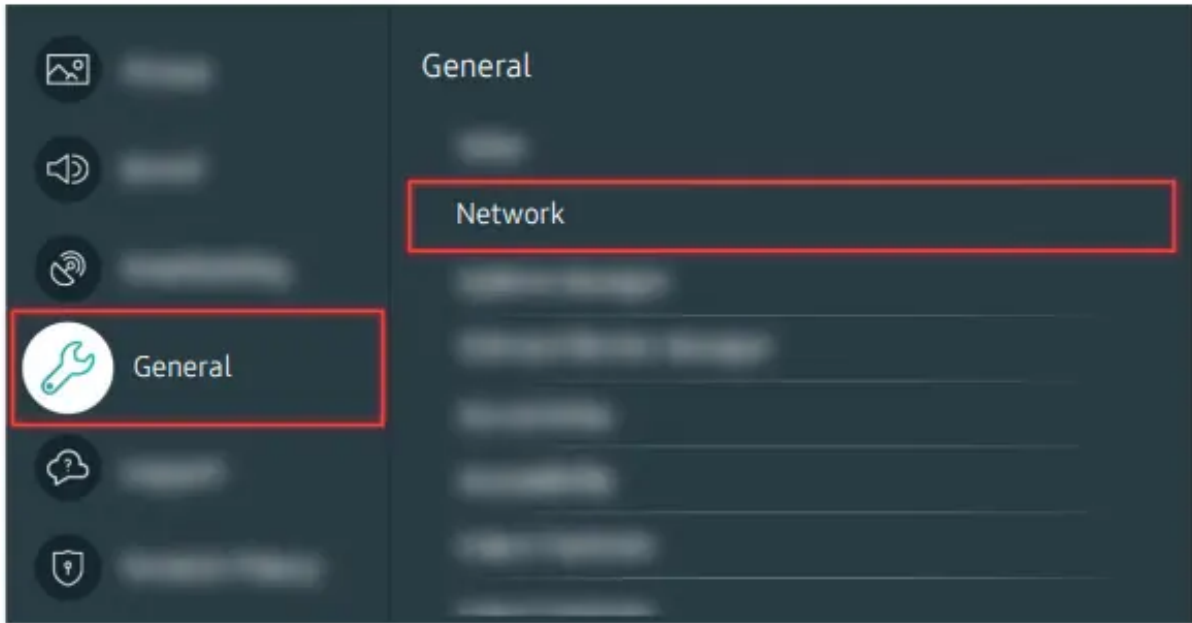


On the remote control, press the  button and move to Settings using the directional button.



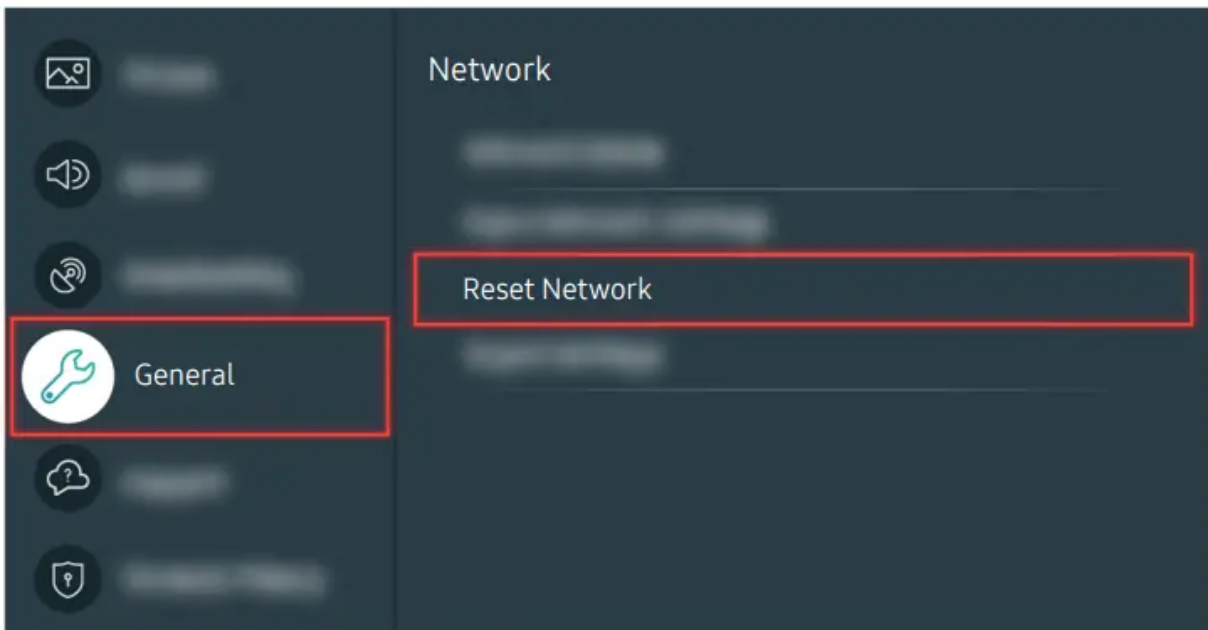
Select

 >  **Settings** > **General** > **Network** > **Network Status** to check the network status

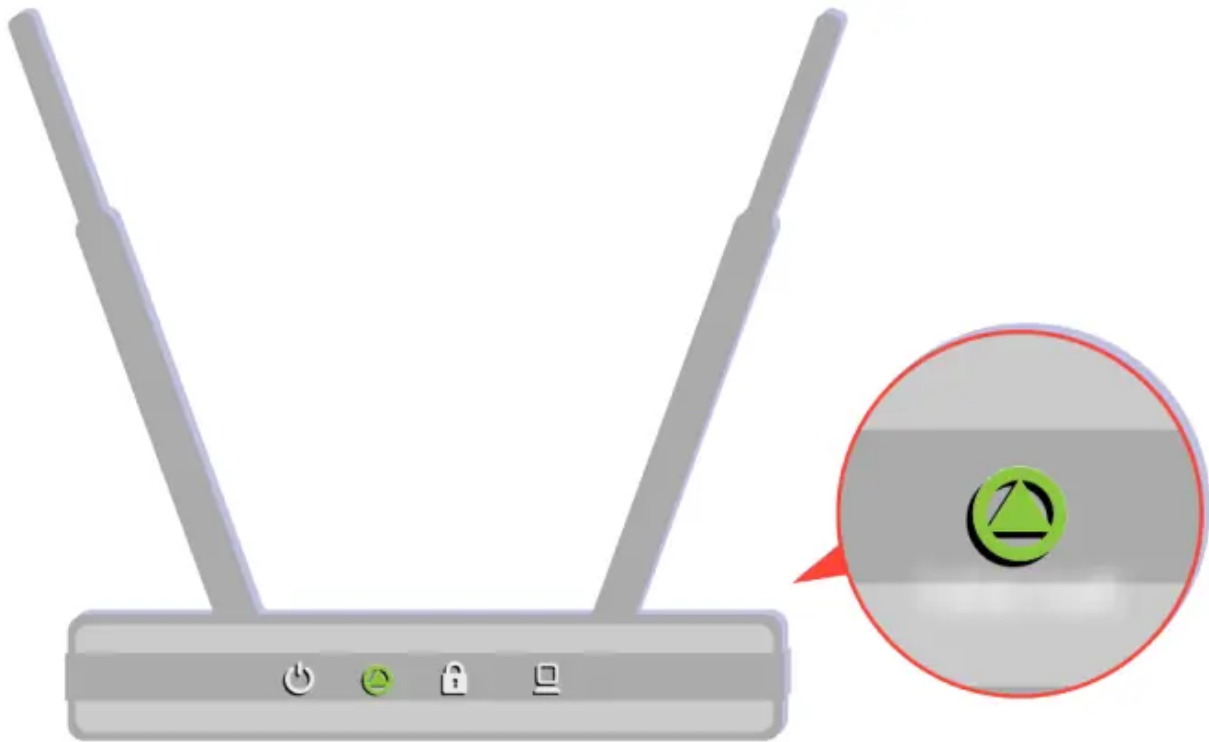


Select

 >  **Settings** > **General** > **Network** > **Network Status** to check the network status

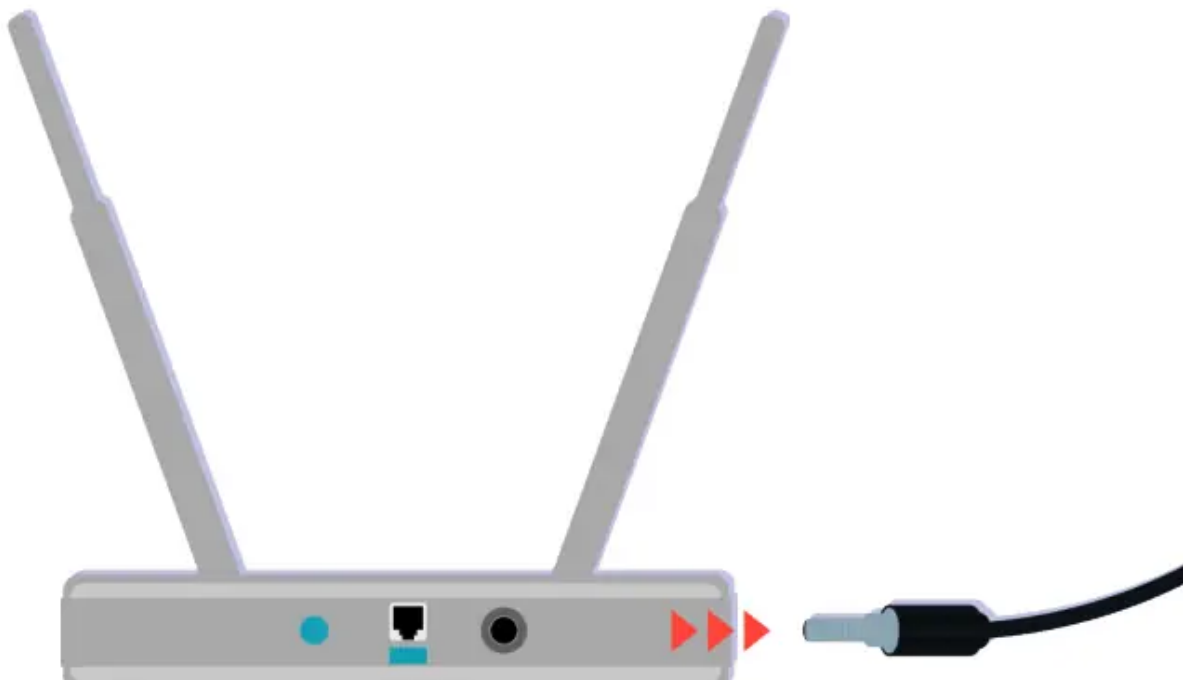


If the network isn't connected, a network reset may be required.

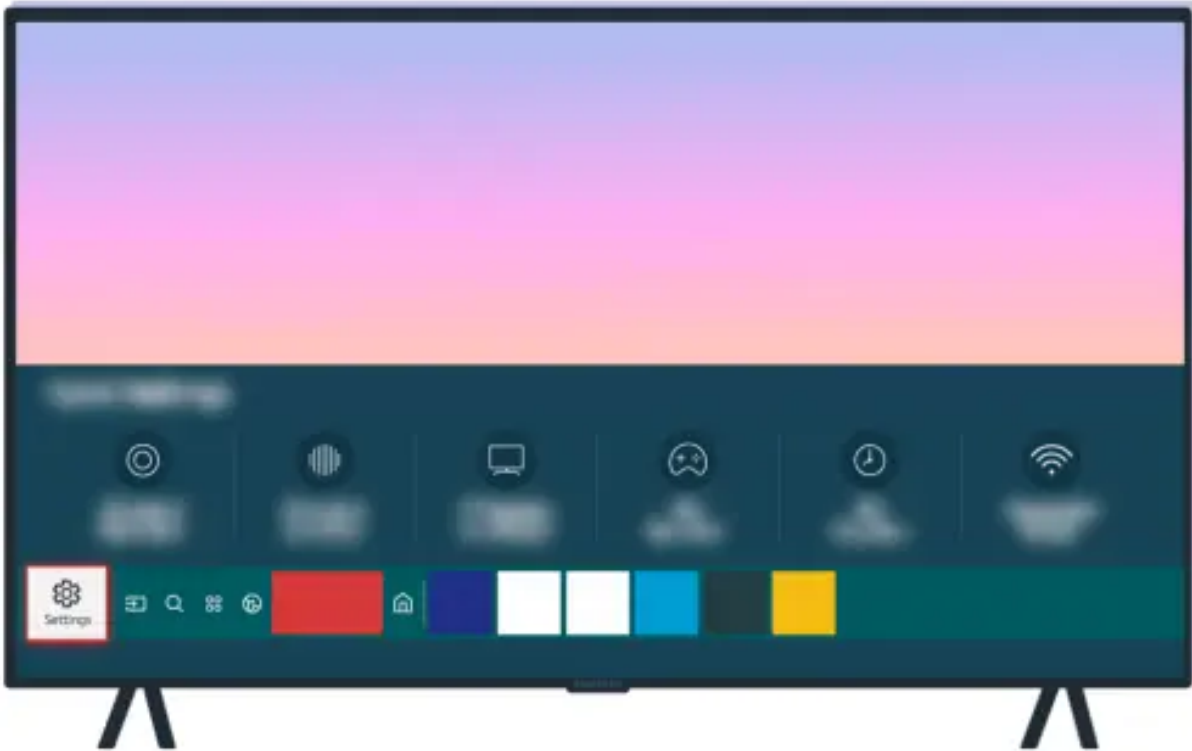


Make sure that your access point is working properly. Check the LED indicators on your access point to make sure it is operating normally.



If you are using a wireless access point, check the access point location. If the access point is too far from the TV, move it closer.

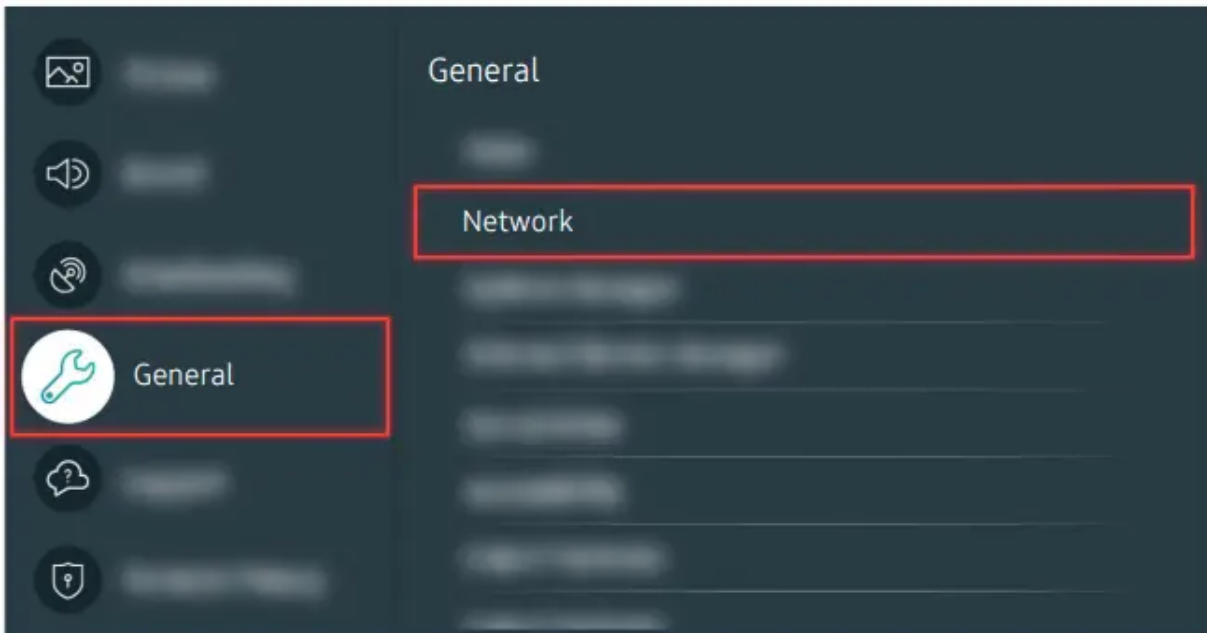


Try rebooting the access point by disconnecting and reconnecting the power connector. It may take 1 to 2 minutes until the access point comes back online after a reboot.




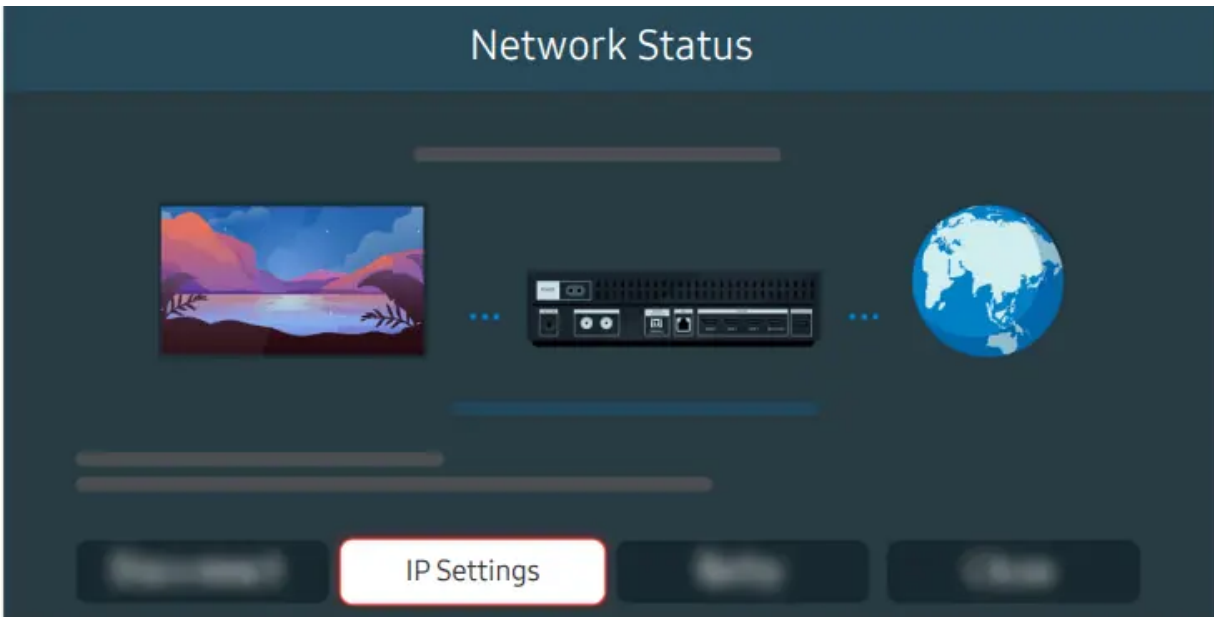
If the same problem continues, select

 >  **Settings** > **General** > **Network** > **Network Status** > **IP Settings** to change to a different DNS server. If a test occurs, cancel it and select IP Settings.





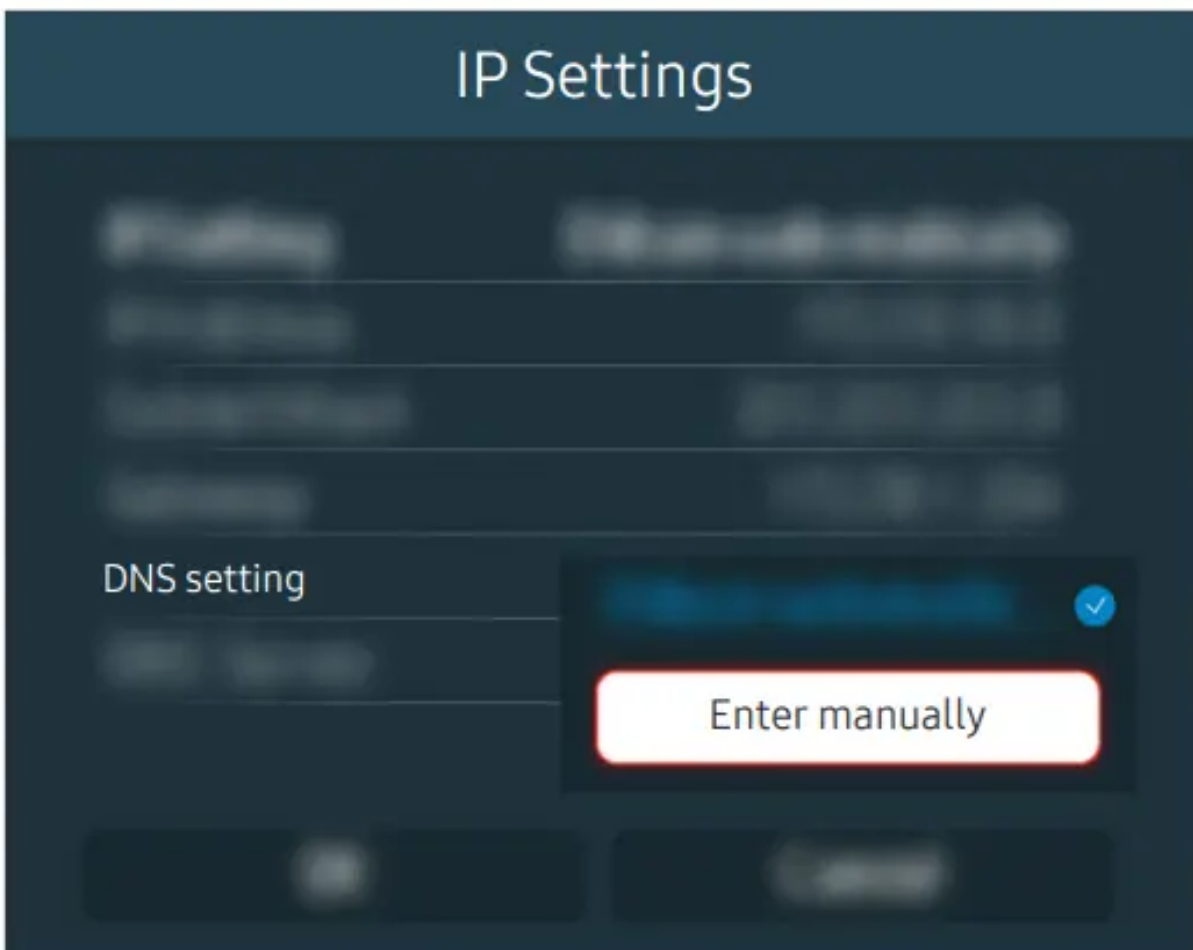
If the same problem continues, select

 >  **Settings** > **General** > **Network** > **Network Status** > **IP Settings** to change to a different DNS server. If a test occurs, cancel it and select IP Settings.



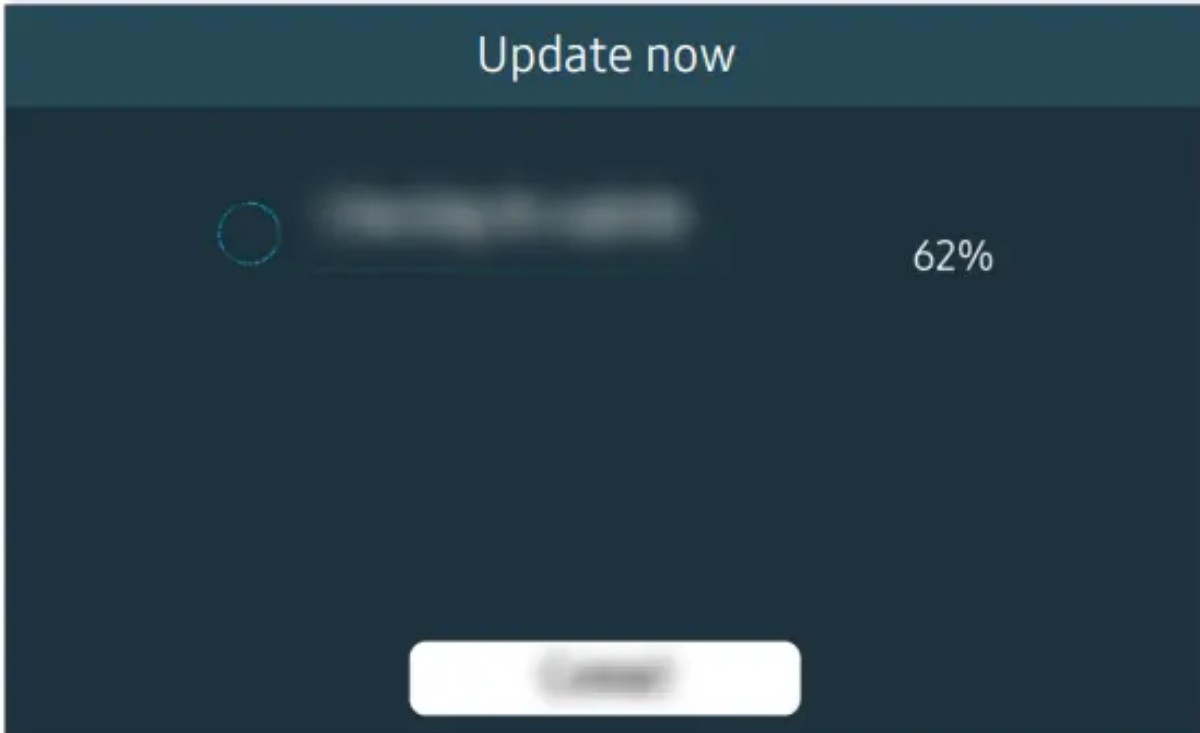
If the same problem continues, select

 >  **Settings** > **General** > **Network** > **Network Status** > **IP Settings** to change to a different DNS server. If a test occurs, cancel it and select IP Settings.



Select DNS setting > Enter manually.

Select DNS Server, enter 8.8.8.8, then select OK.



If the same problem continues, a software update or factory reset may be required.

Related menu path



There is No Sound or the Speakers are Making an Odd Sound

When the sound has an issue, you can simply check if the problem is caused by the product or the broadcast signals and cables.

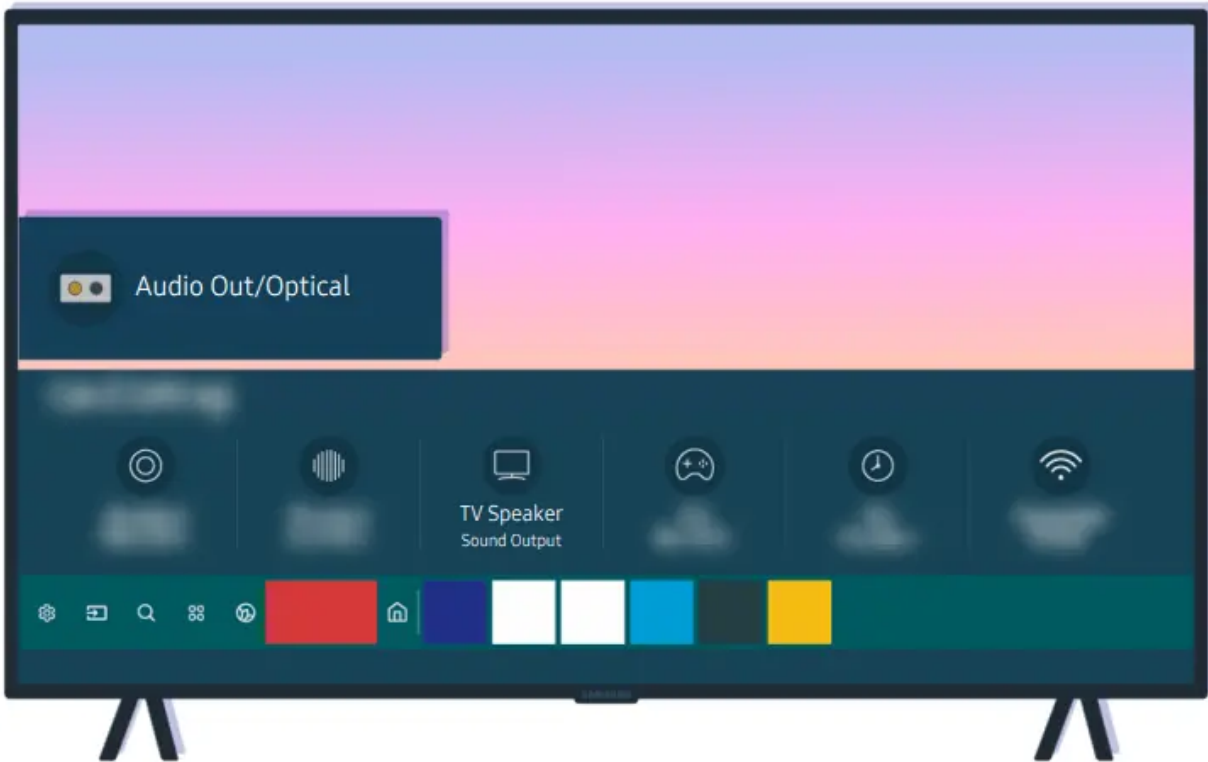
When no sound comes out of the TV, or the sound is breaking up





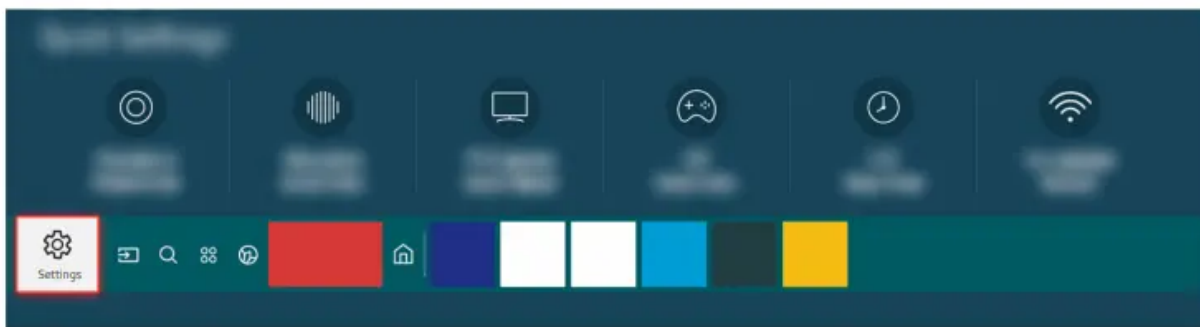
If your TV does not produce any sound, press the Volume + button to increase the volume.





If your TV is connected to an external device, check the volume of the external device.

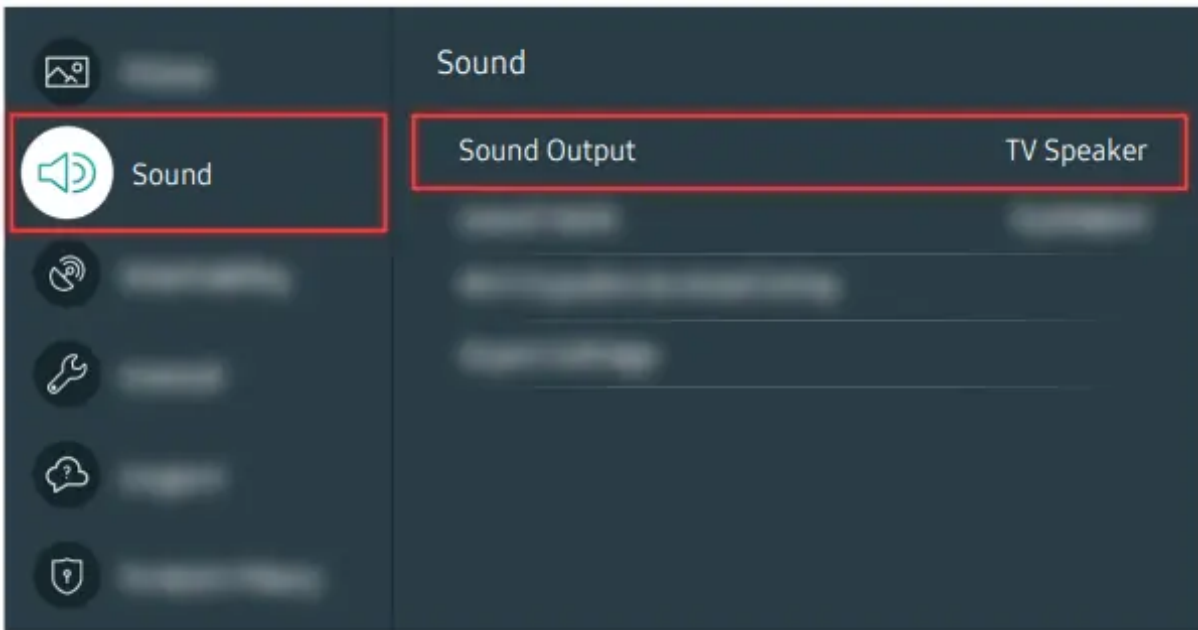




Check the volume on the screen. If a number for the TV volume is not displayed, select  >  > Settings > Sound > Sound Output. Then, select TV Speaker.

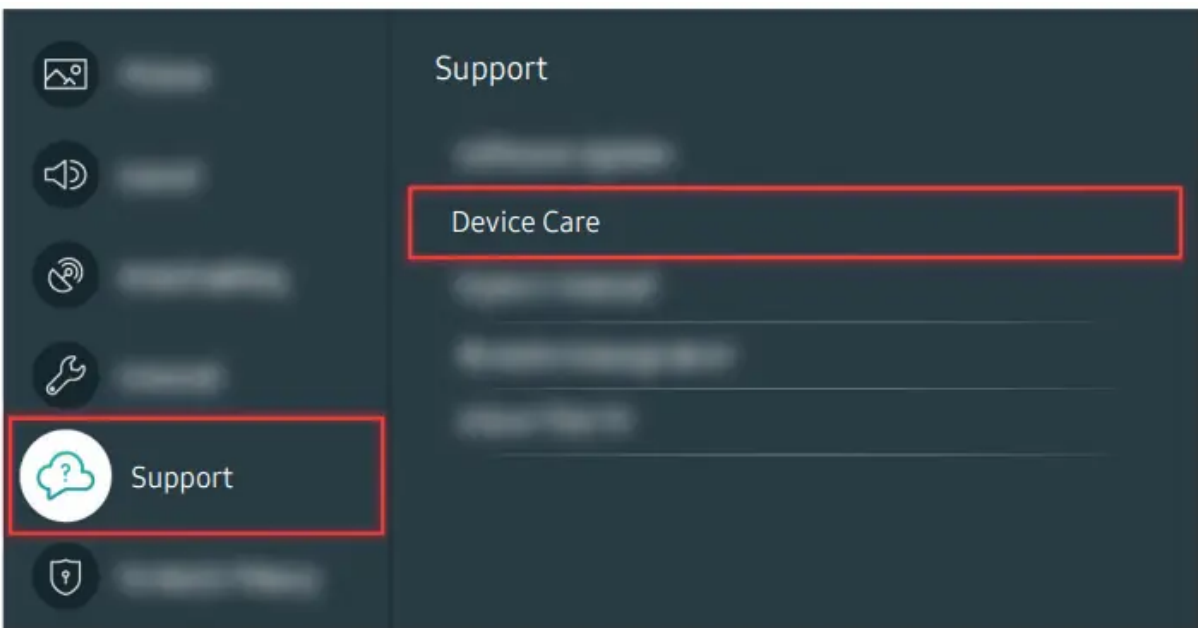




Check the volume on the screen. If a number for the TV volume is not displayed, select  >  > Settings > Sound > Sound Output. Then, select TV Speaker.

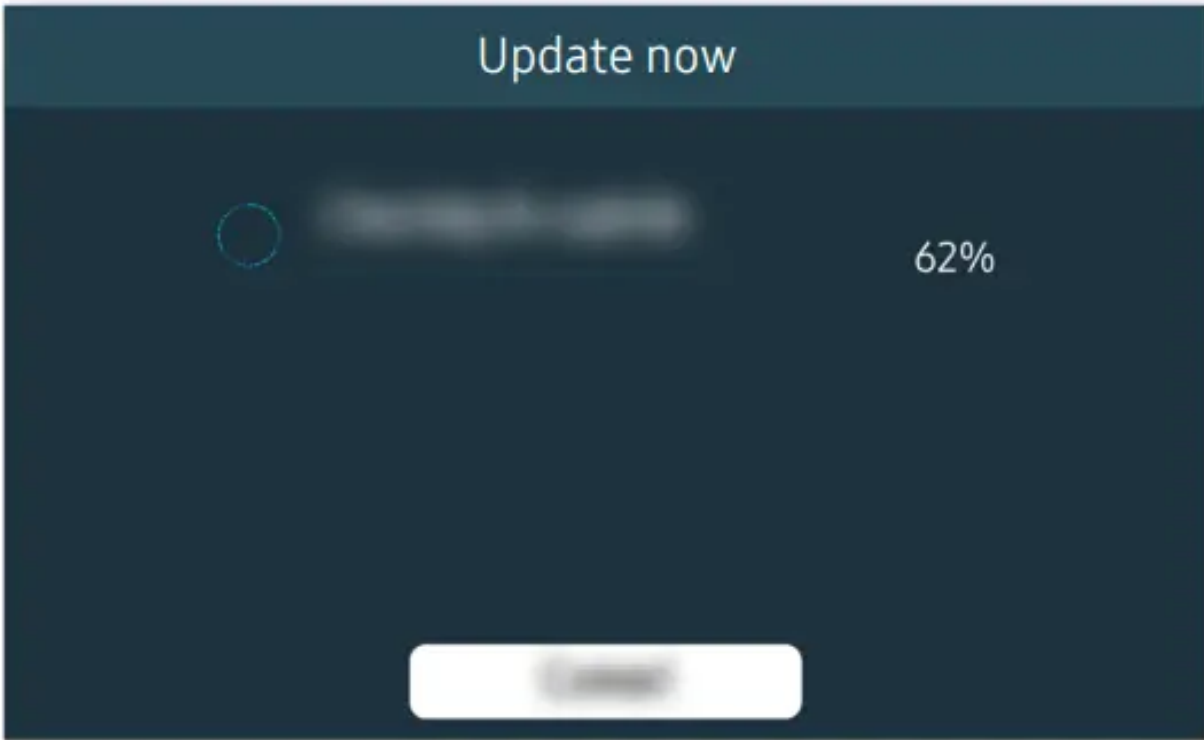




Check the volume on the screen. If a number for the TV volume is not displayed, select  >  > Settings > Sound > Sound Output. Then, select TV Speaker.




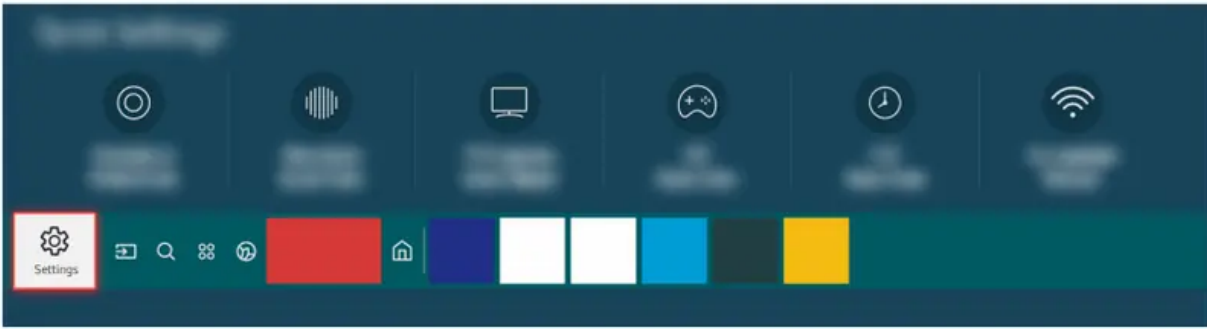
To check sound output, select  >  Settings > Support > Device Care > Self Diagnosis > Sound Test.



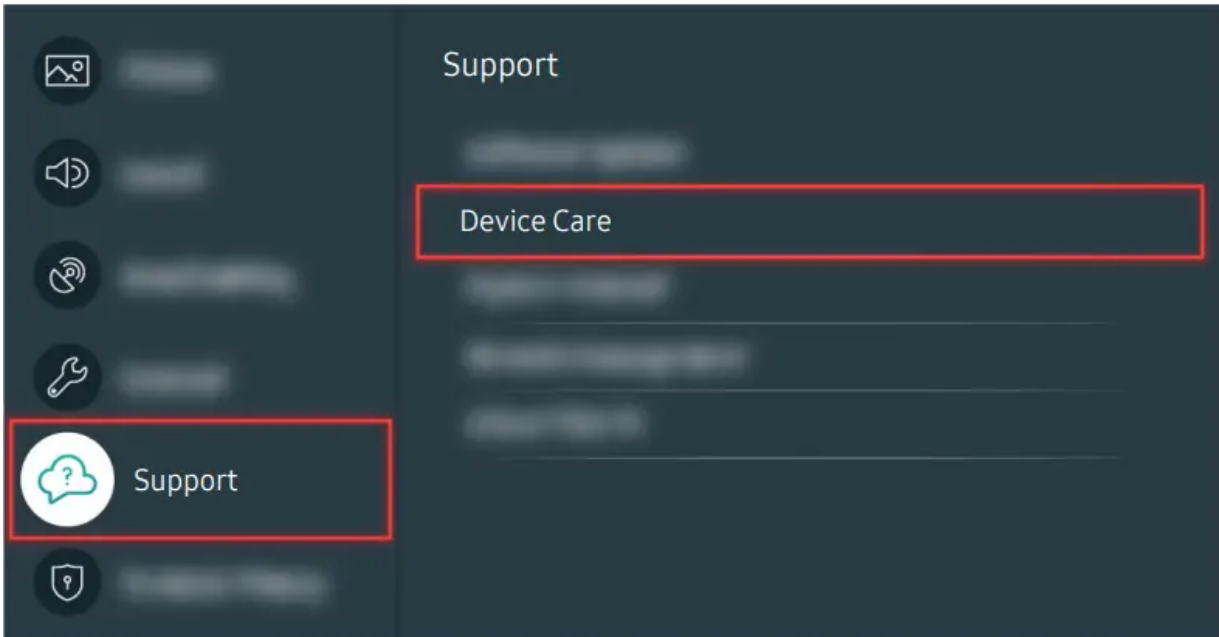
If the same problem continues, a software update or factory reset may be required.



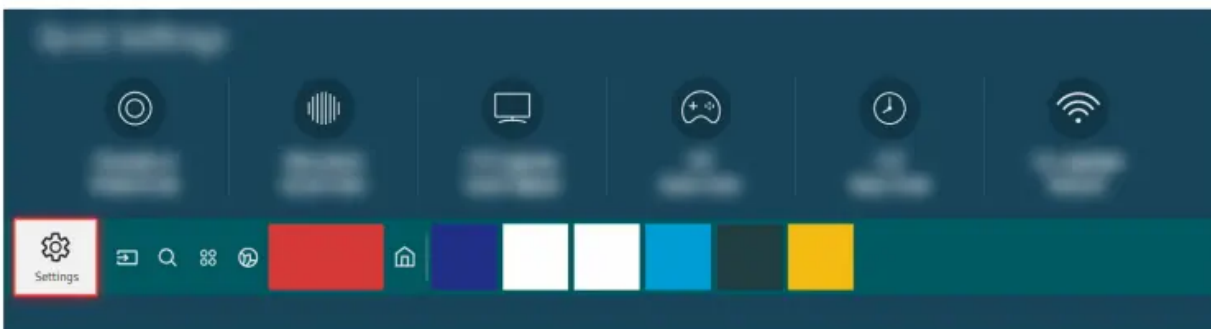
If there is sound but it is not clear, run a diagnostic test. On the remote control, press the  button.



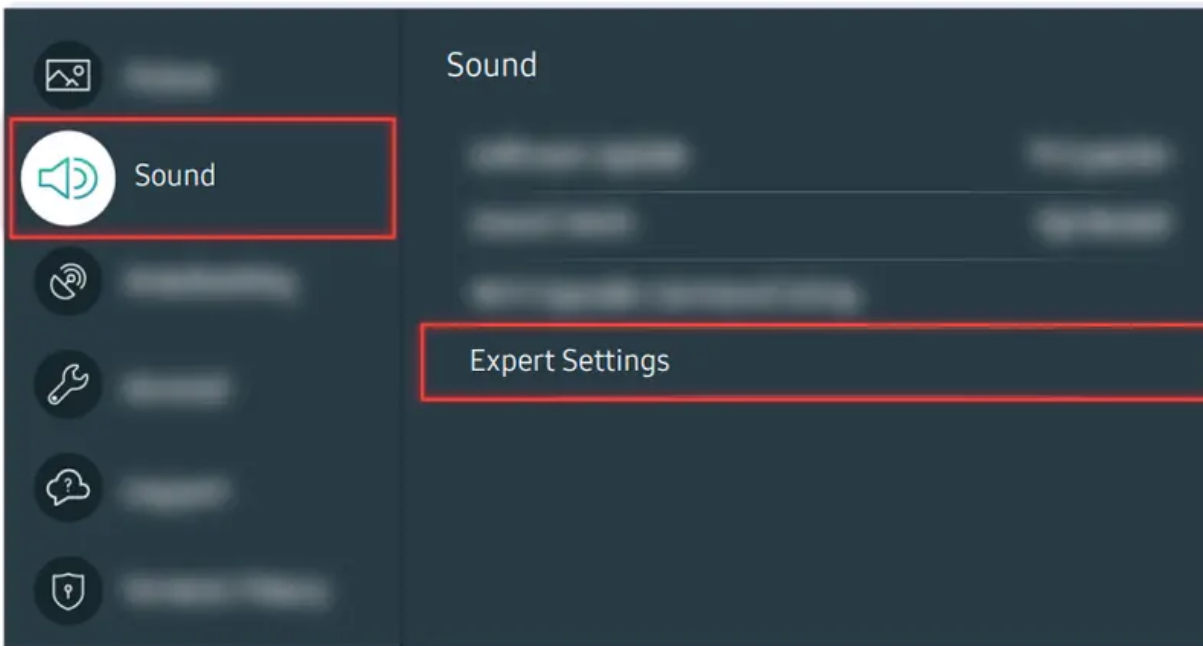
Go to  >  **Settings** > **Support** > **Device Care** > **Self Diagnosis** > **Sound Test** to check the sound.



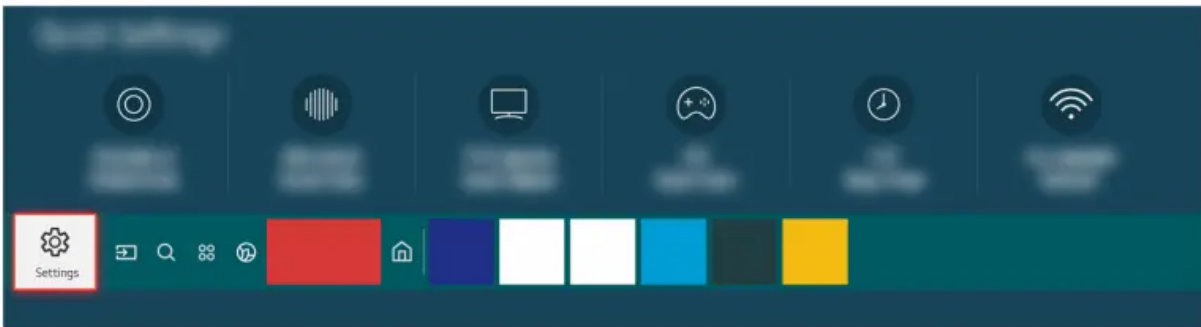
Go to  >  **Settings** > **Support** > **Device Care** > **Self Diagnosis** > **Sound Test** to check the sound.



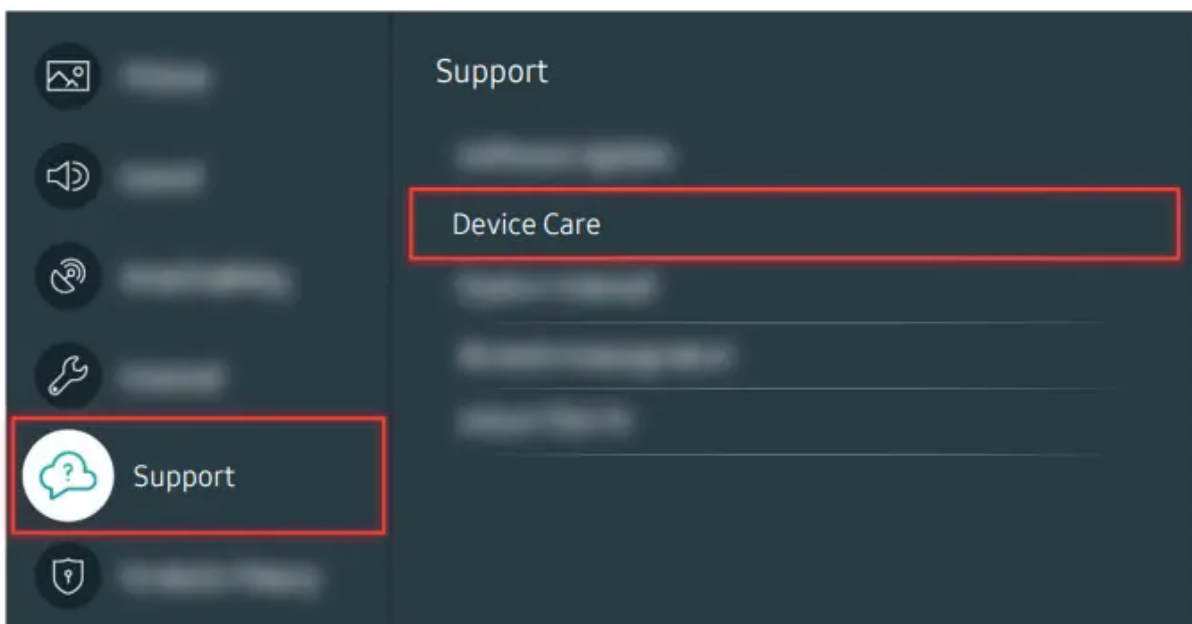
If the test reveals a problem, select  >  **Settings** > **Sound** > **Expert Settings** > **Reset Sound**.



If the test reveals a problem, select  >  Settings > Sound > Expert Settings > Reset Sound.



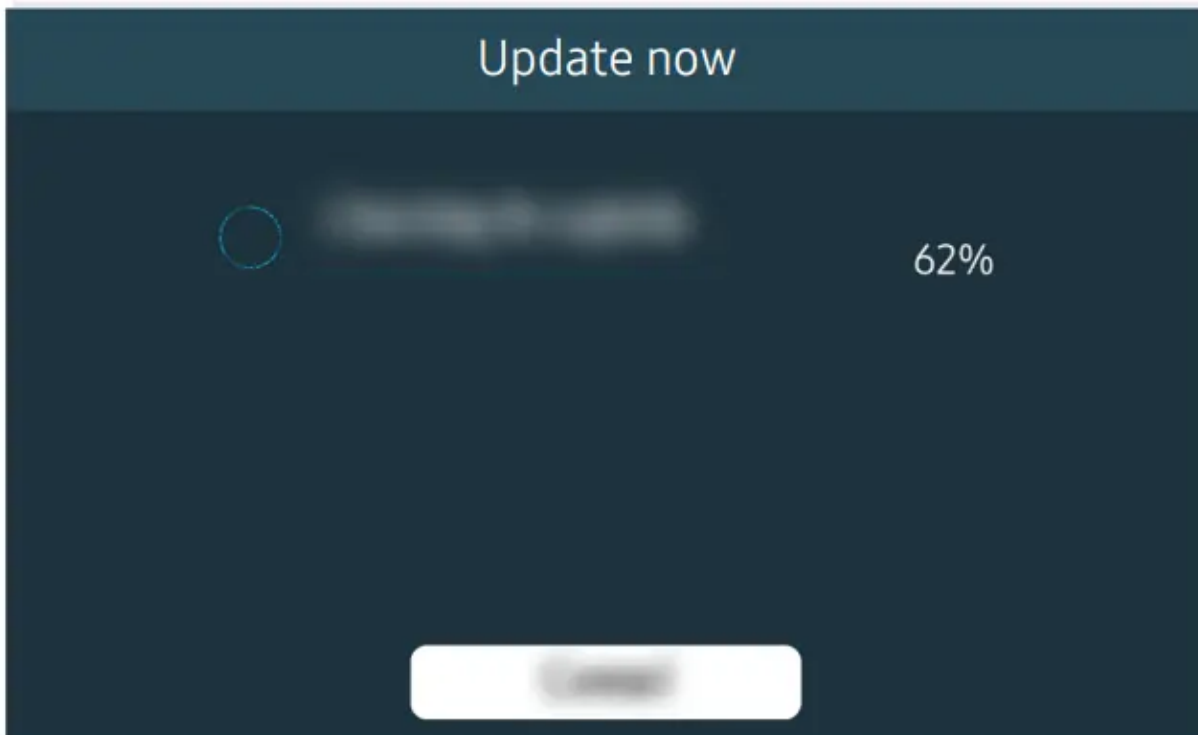
If the test shows no problems, select  >  Settings > Support > Device Care > Self Diagnosis > Signal Information



If the test shows no problems, select  >  Settings > Support > Device Care > Self Diagnosis > Signal Information



Check whether the signal strength is too weak or not.



If the same problem continues, a software update or factory reset may be required.

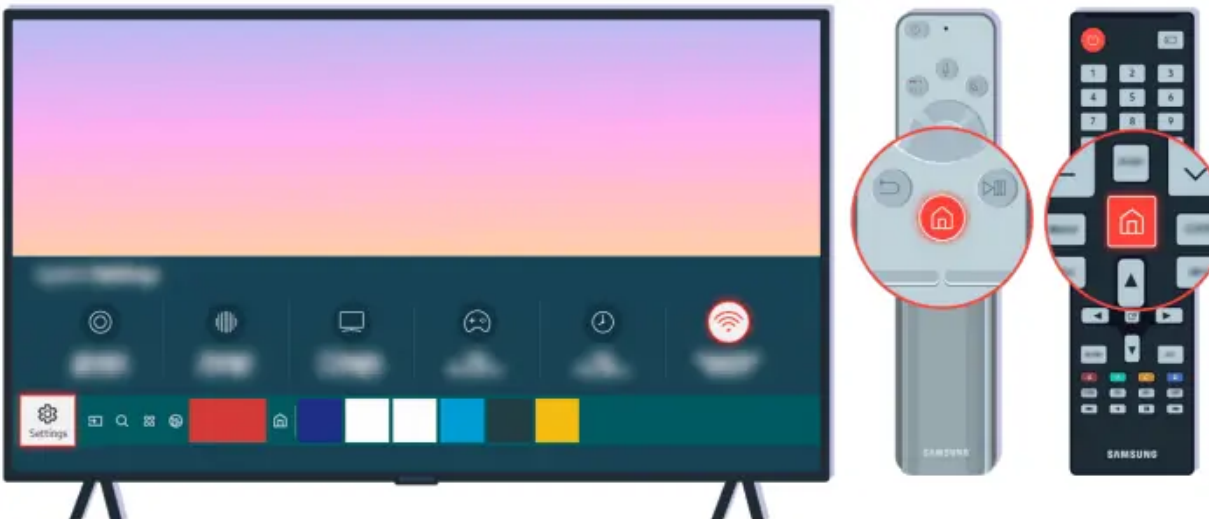
Related menu path





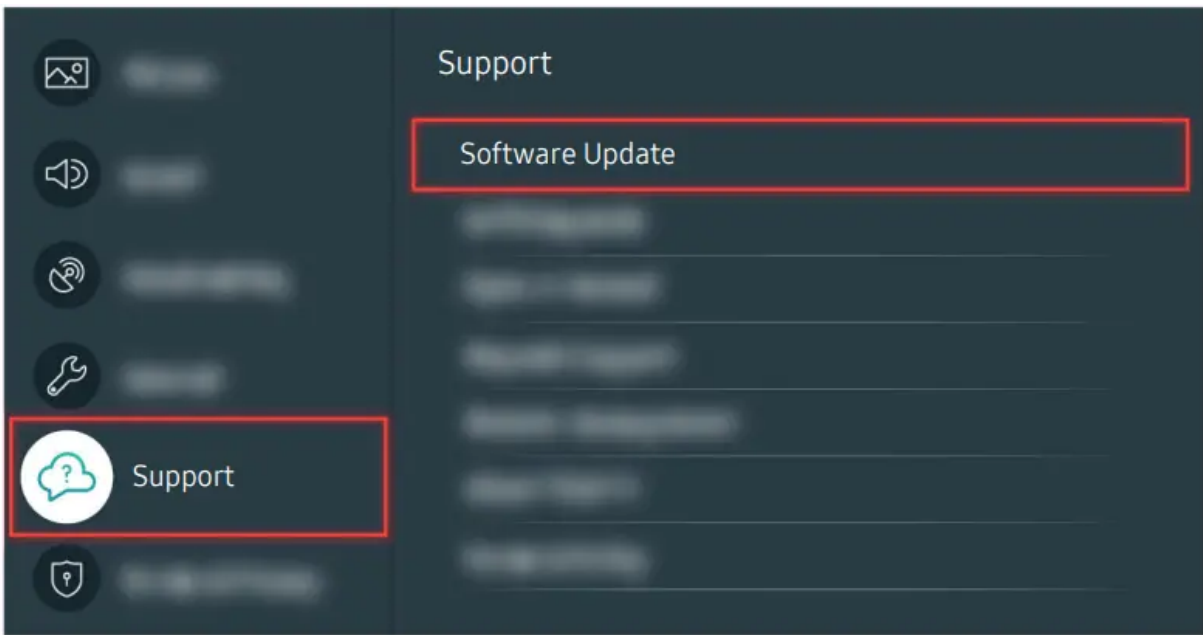
Updating the Software

If you want to keep the TV in its best condition or if you have an intermittent issue, please update it to the latest version.

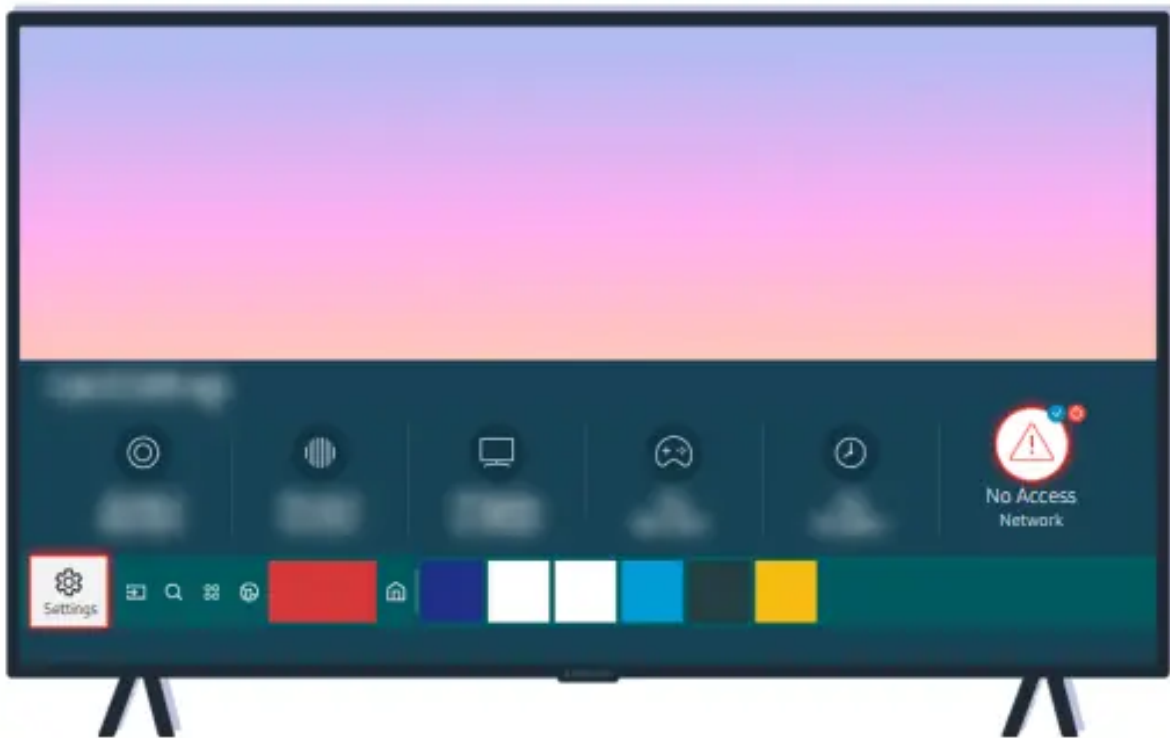
Updating the latest TV's software



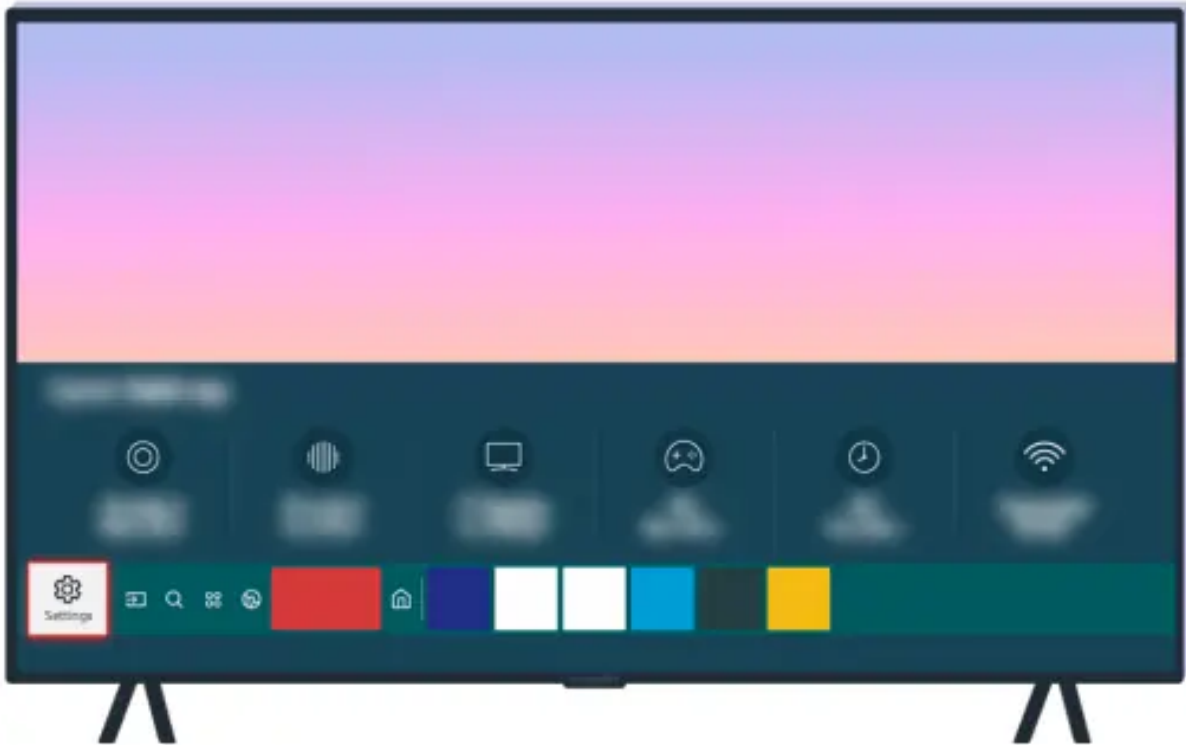
If your TV is connected to the Internet, you can set it to receive periodic updates automatically. On the remote control, press the  button and move to  Settings using the directional button



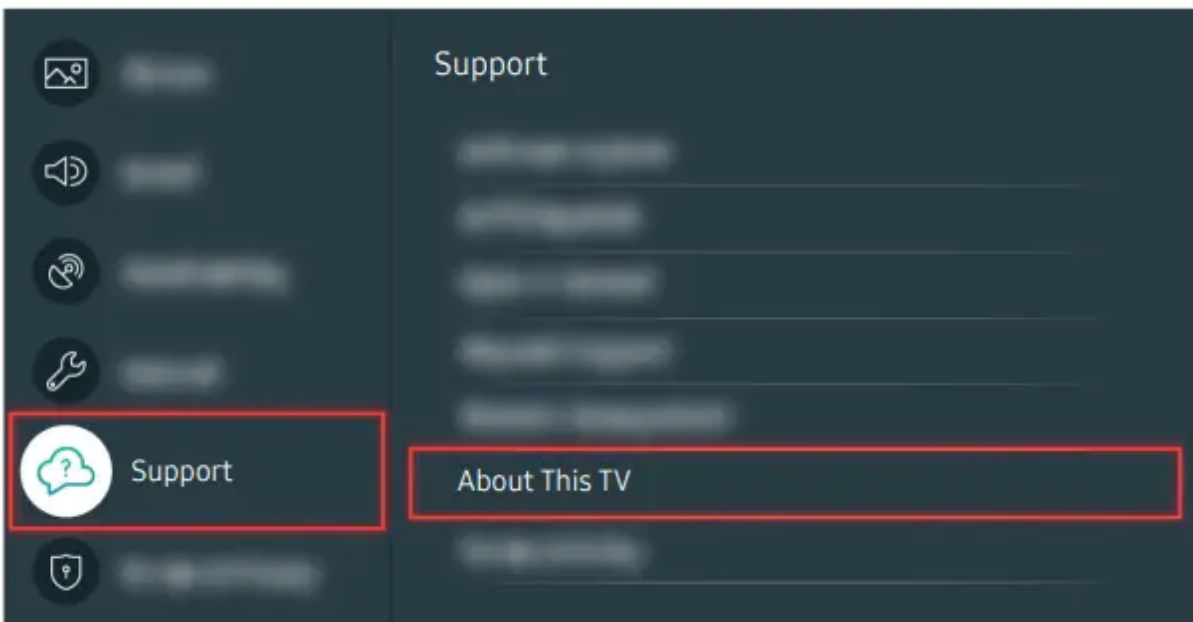
To enable automatic updates, select  >  **Settings** > **Support** > **Software Update** > **Auto update**



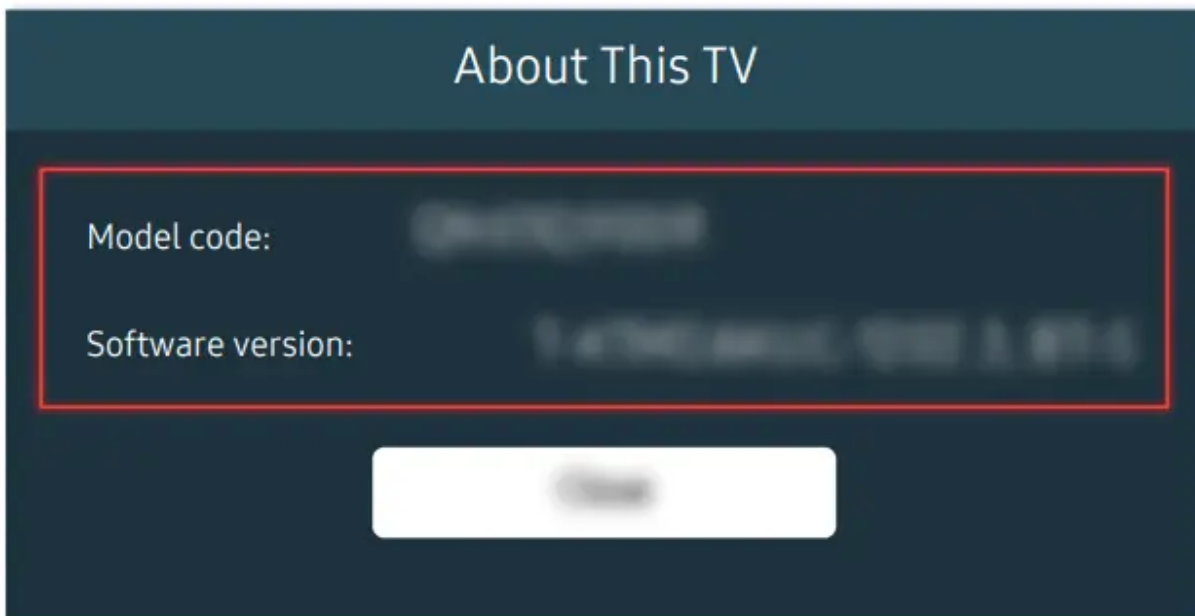
If your TV is not connected to the Internet, you can update the software using a USB drive.





Select [Home](#) > [Settings](#) > [Support](#) > [About This TV](#) and check the model code and software version.



Select [Home](#) > [Settings](#) > [Support](#) > [About This TV](#) and check the model code and software version.



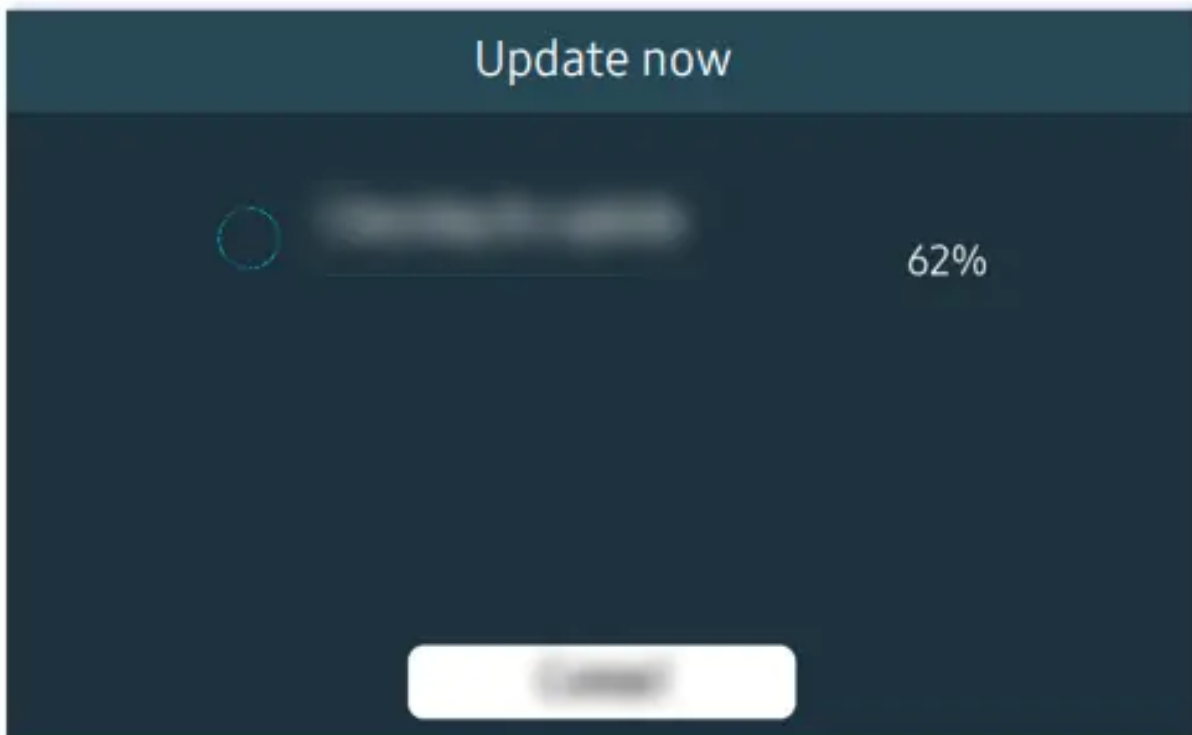
- Select  >  Settings > Support > About This TV and check the model code and software version.
- Using a computer, connect to www.samsung.com.
- Find your TV model and download the firmware file.
- Click Download to download the firmware.



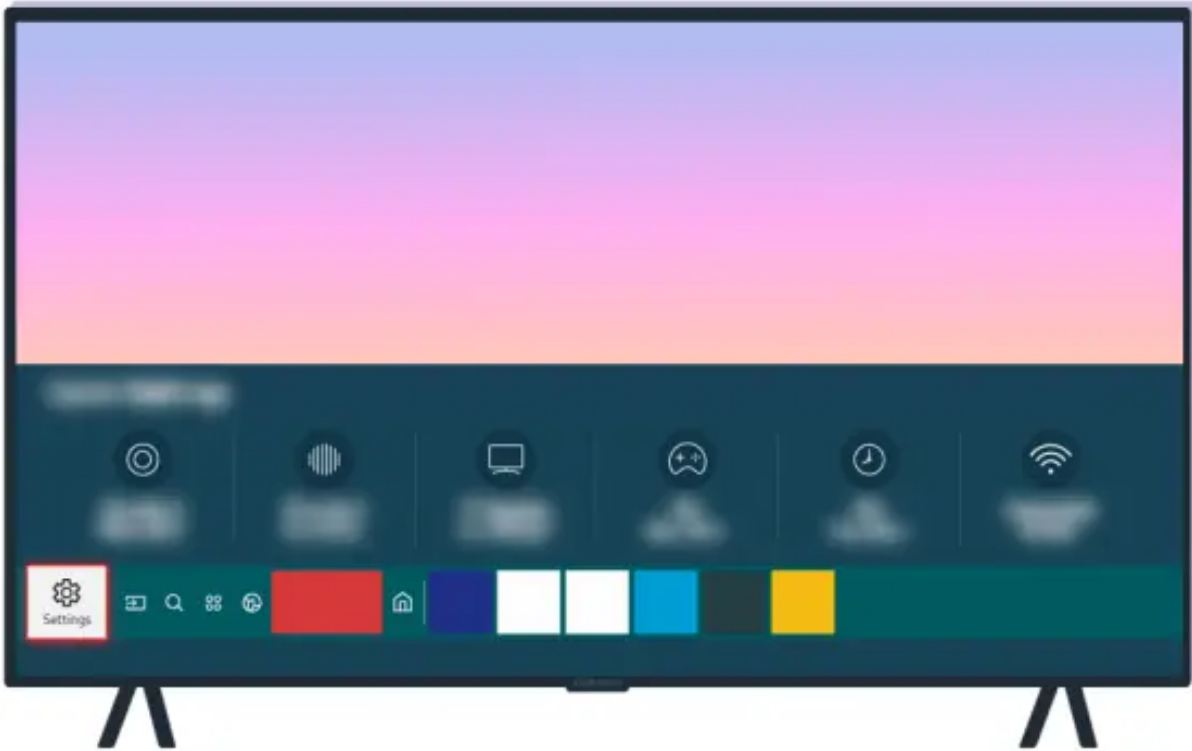
- Unzip the downloaded file and store it in your USB drive top folder.
- Unzip the downloaded file and store it in your USB drive top folder.





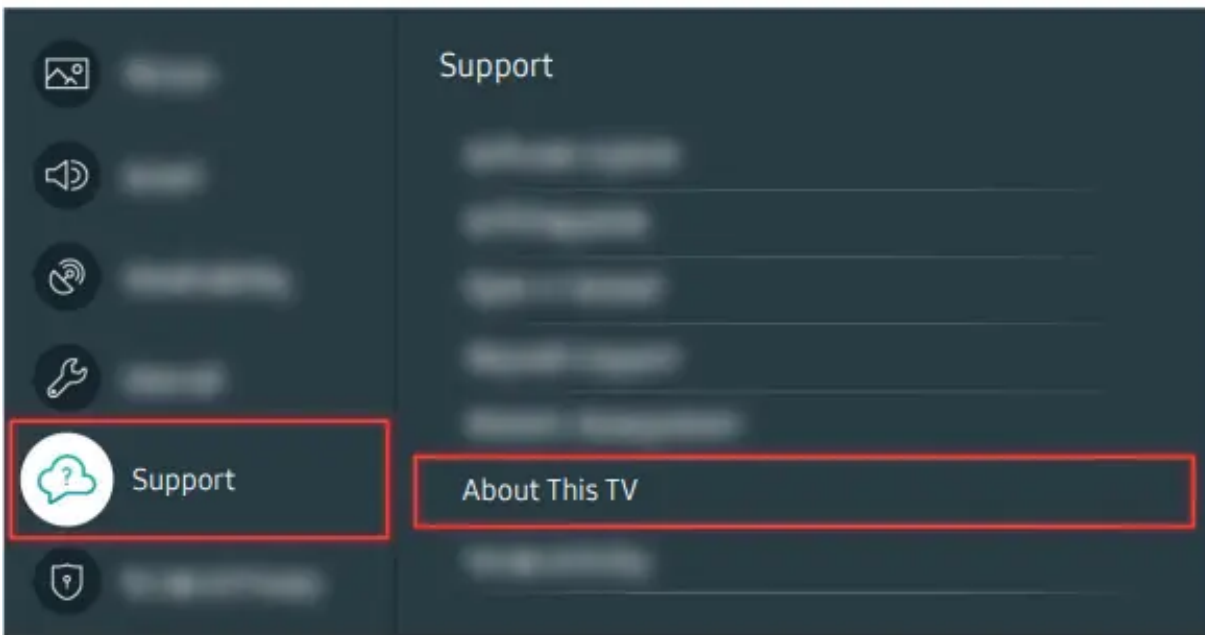
Insert the USB device into the USB slot on the back of your TV or the side of the One Connect Box.



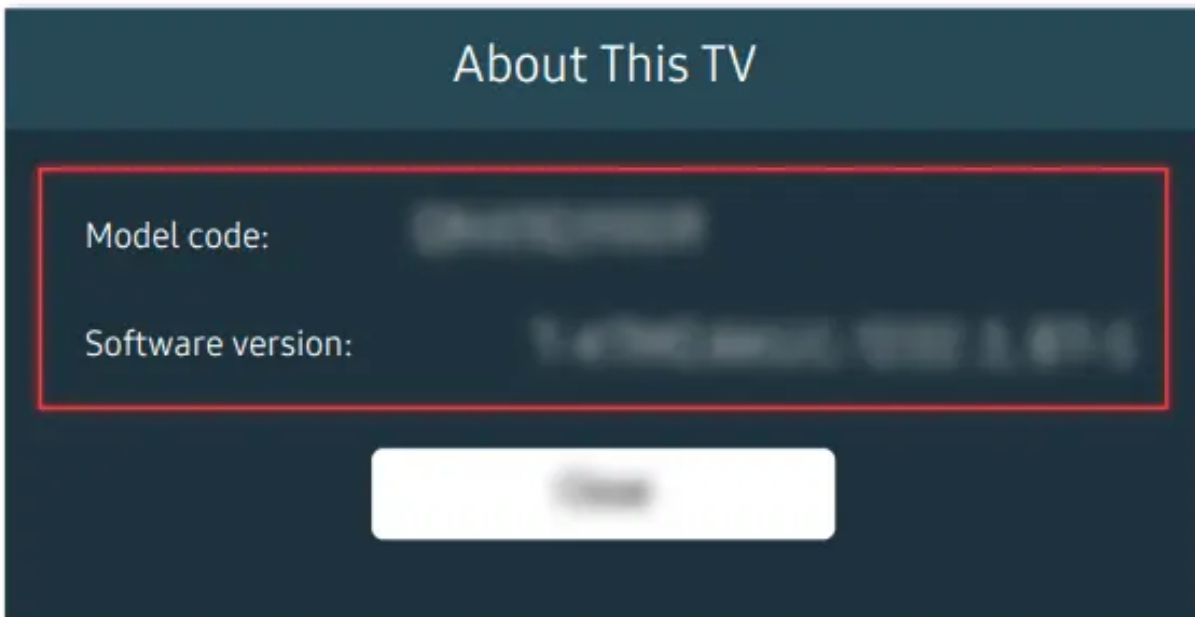
The firmware update begins automatically. Your TV will be automatically reset when the firmware update is completed. Do not turn off your TV while the firmware update is in progress.



After your TV has been reset, select  >  **Settings** > **Support** > **About This TV** and check the new firmware



After your TV has been reset, select  >  **Settings** > **Support** > **About This TV** and check the new firmware



Related menu path

 >  [Settings](#) > [Support](#) > [Software Update](#) > [Auto update](#)

 >  [Settings](#) > [Support](#) > [About This TV](#)

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.