SAMSUNG

E-MANUAL

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

www.samsung.com Model _____ Serial No. _____

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

"Menu Learning Screen" Link

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Guide

Learn how to use various features.

Connections

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

Connection Guide

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

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.

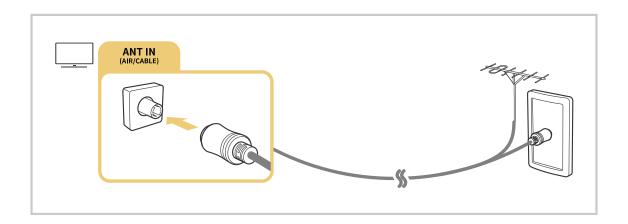
- Audio Device: HDMI (ARC), Optical, Bluetooth, Wi-Fi, Wi-Fi Speaker Surround Setup
 - #DMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.
- Video Device: HDMI
- Smartphone: Screen Sharing (Smart View), SmartThings, Apple AirPlay
- PC: HDMI, Screen Sharing (Wireless), Apple AirPlay
- Input Device: Keyboard, Mouse, USB Gamepad, Bluetooth Device
- Game Console: HDMI
- External Storage: USB Flash Drive, Hard Disk Drive (HDD)
- Using **HDMI Troubleshooting**, you can check the connection to HDMI cable and external devices (takes approximately 2 minutes).
- The connection method and available external devices may differ depending on the model.

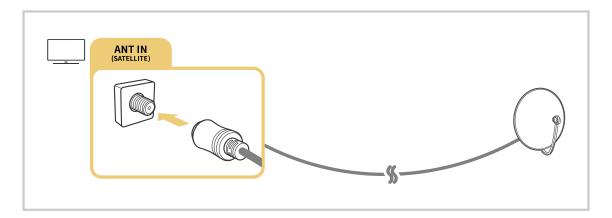


The image on your TV may differ from the image above depending on the model and geographical area.

Connecting an Antenna (Aerial)

You can connect an antenna cable to your TV.





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

- A connection method may differ depending on the model or geographical area.
- The DVB-T2 system may not be supported depending on the geographical area.

Connecting to the Internet

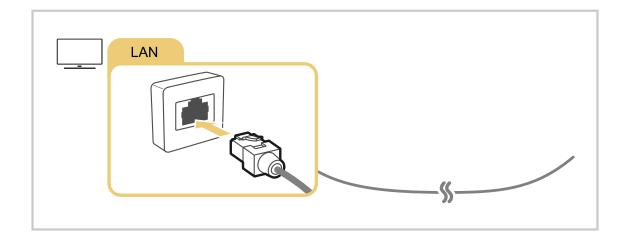
You can get access to the Internet through your TV.

♠ > ♠ Settings > General > Network > Open Network Settings (ry Now)

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.

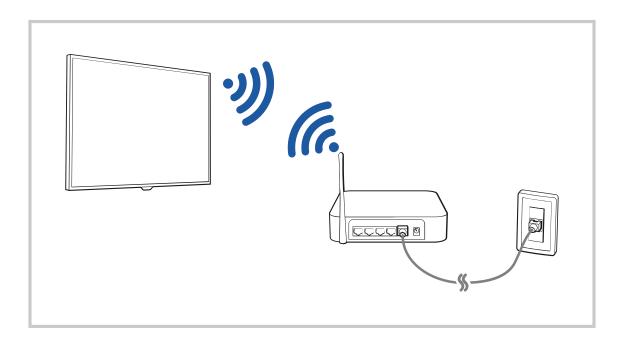


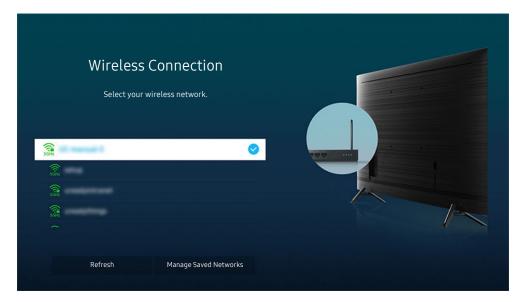
- Use a CAT 7 (*STP type) cable for the connection.
 - * Shielded Twisted Pair
- The TV will not be able to connect to the Internet if your network speed is below 10 Mbps.
- This function may not be supported depending on the model.

Establishing a wireless Internet connection

⑥ > ፡ Settings > General > Network > Open Network Settings > Wireless

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





- The image on your TV may differ from the image above depending on the model and geographical area.
- If no wireless access point is found, select Add Network at the bottom of the list and enter the network name (SSID).
- If your wireless access point has a WPS or PBC button, select **Use WPS** at the bottom of the list, and then push the WPS or PBC button on your access point within 2 minutes. The TV will connect automatically.
- To view or delete previously connected network names (SSIDs), move the focus to Manage Saved Networks, and then press the Select button.

Checking the Internet connection status

♠ > ♠ Settings > General > Network > Network Status (ry Now)

View the current network and Internet status.

Resetting Your Network

Restore the network settings to the factory default.

Turning on the TV with a mobile device

🙆 > 🕸 Settings > General > Network > Expert Settings > Power On with Mobile

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

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

Connecting an IP control device to the TV

♠ > ♥ Settings > General > Network > Expert Settings > IP Remote

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

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

Changing the name of the TV

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

Connection Cables for External Devices

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

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

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

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

Switching between external devices connected to the TV

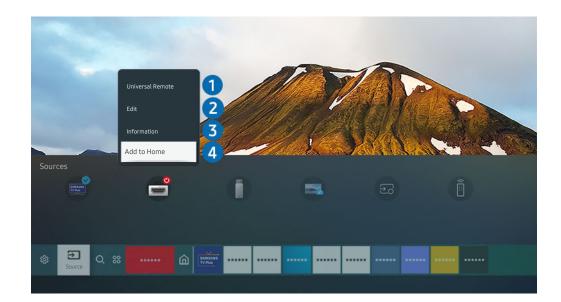
You can switch between TV programmes and the content of external devices.

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

- You can also start this function by pressing the SOURCE button.
- To control a device (Blu-ray player, game console, etc.) that supports universal remote control with the TV's remote control, connect the device to an HDMI port on the TV, and then turn on the device. The output displayed on the TV is automatically switched to the output of the device or you can configure universal remote control for the device automatically. For more information, refer to "Controlling External Devices with a Samsung Remote Control Using the Universal Remote".
- When a USB device is connected to the USB port, a pop-up message appears that lets you switch easily to the media content listed on the device.
- This function may not be supported depending on the device and geographical area.

Editing the name and icon of an external device

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



- The image on your TV may differ from the image above depending on the model and geographical area.
- 1. Move the focus to a connected external device.
- 2. Press the up directional button. The following functions become available.
 - Available functions may differ depending on the port type.

1 Universal Remote

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

- This function may not be supported depending on the model or geographical area.
- For more information, refer to "Controlling External Devices with a Samsung Remote Control Using the Universal Remote".

2 Edit

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

3 Information

You can view detailed information about an external device.

4 Add to Home

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

Using additional functions

You can use the following features on the Source screen.

Remote Access

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

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

• Connection Guide

Displays device connection instructions.

For more information about the Connection Guide, refer to "Connection Guide".

Universal Remote

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

- This function may not be supported depending on the model or geographical area.
- For more information, refer to "Controlling External Devices with a Samsung Remote Control Using the Universal Remote".

Connection Notes

When connecting an external device, note the following.

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

Connection notes for HDMI

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

Connection notes for computers

- For the resolutions supported by the TV, refer to "Read Before Connecting a Computer (Supported Resolutions)".
- If you want to connect your PC and TV wirelessly, both of them must be connected to each other on the same network.
- When sharing content with other network-based devices such as those in an IP (Internet Protocol) storage system, sharing may not be supported due to the network's configuration, quality or functionality, for example, if the network has an NAS (Network-Attached Storage) device.

Connection notes for mobile devices

- To use the Smart View function, the mobile device must support a mirroring function such as Screen Mirroring or Smart View. To check whether your mobile device supports the mirroring function, refer to the mobile device's user manual.
- To use Wi-Fi Direct, the mobile device must support the Wi-Fi Direct function. To check whether your mobile
 device supports Wi-Fi Direct function, refer to the mobile device's user manual.
- The mobile device and your Smart TV must be connected to each other on the same network.
- Use AirPlay if you are an iPhone or iPad user. For more information, refer to <a> → → Source → Connection Guide → Smartphone → Apple AirPlay.
 - This function may not be supported depending on the model.
- The video or audio may stop intermittently, depending on network conditions.
- When sharing content with other network-based devices such as those in an IP (Internet Protocol) storage system, sharing may not be supported due to the network's configuration, quality or functionality, for example, if the network has an NAS (Network-Attached Storage) device.

Peripherals

Connect external devices such as a keyboard for ease of use.

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

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

♠ > Dource > 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.

You can use the TV's remote control to control external devices that are connected to the TV by an HDMI cable and that support Anynet+ (HDMI-CEC). Note that you can only set up and operate Anynet+ (HDMI-CEC) with the remote control.

Connecting an external device through Anynet+ and using their menus

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

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

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

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

- Anynet+ (HDMI-CEC)-enabled devices must be connected to the TV with an HDMI cable. Note that some HDMI cables may not support Anynet+ (HDMI-CEC).
- You can configure the TV's Universal Remote to control third-party cable boxes, Blu-ray players and home theatres that do not support HDMI-CEC. For more information, refer to "Controlling External Devices with a Samsung Remote Control Using the Universal Remote".
- Anynet+ cannot be used to control external devices that do not support HDMI-CEC.
- The TV remote control may not work under certain circumstances. If this occurs, set up the device as an Anynet+ (HDMI-CEC)-enabled device again.
- Anynet+ (HDMI-CEC) works only with external devices that support HDMI-CEC and only when those devices are either in standby mode or turned on.
- Anynet+ (HDMI-CEC) can control up to 12 compliant external devices (up to 3 of the same type) except for home theatres. Anynet+ (HDMI-CEC) can control only one home theatre system.
- To listen to 5.1 channel audio from an external device, connect the device to the TV via an HDMI cable and connect a 5.1 home theatre system directly to the external device's digital audio output connector.
- If an external device has been set up for both Anynet+ and a universal remote control, the device can be controlled only with the universal remote control.

Controlling the TV with a Keyboard, Mouse or Gamepad

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

♠ > ♦ Settings > General > External Device Manager > Input Device Manager (ry Now)

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 and Remote Access function.
- XInput USB gamepads are supported.
- For more information, refer to Input Device in Connection Guide (> > Source > Connection Guide > Input Device).

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 about how to connect a Bluetooth device, refer to the Bluetooth device's user manual.
- This function may not be supported depending on the model or geographical area.

Using the keyboard and mouse

Button	Description	
Directional keys	Moves the focus	
Windows key	Displays the TV settings	
Enter key	Selects or runs a focused item	
ESC key	Returns to the previous screen	
F1 / F2 / F3 / F4 key	Colour buttons — ■ / ■ / ■ /	
F5 key	Displays the Home Screen	
F6 key	Displays the Source screen	
F7 key	Displays the Channel List	
F8 key	Mutes the sound	
F9 / F10 key	Adjusts the volume	
F11 / F12 key	Changes the channel	
Page Up / Page Down	Scrolls a web page displayed by the Internet app.	
Left-click	Available only in the Internet app. You can click a menu or link to start a function as you do on a PC.	
Right-click	Available only in the Internet app. You can use the following functions: The options displayed in the menu may differ depending on the selected item. Open Open Link in New Tab Enable Scroll Mode	

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

Setting up the input devices

- ♠ > ♠ Settings > General > External Device Manager > Input Device Manager
 - Keyboard Settings

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

Mouse Settings

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

Entering Text using the On-Screen Virtual Keyboard

Use the virtual keyboard to enter text on your TV.



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

1 Recommend text

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

2 Options

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

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

Smart Features

You can enjoy various apps with Smart Hub.

Using Smart Hub

View descriptions of Smart Hub's basic functions.

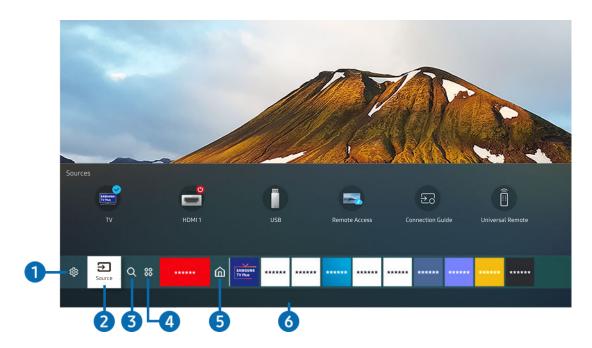
From Smart Hub, you can use the Internet search function, install and use various apps, view photos and videos or listen to music stored on external storage devices, and perform more functions.

- Some Smart Hub services are paid services.
- To use Smart 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 > \$\ointimes\$ Settings > Terms & Privacy. Try Now
- If you want to stop using Smart Hub, you can cancel the agreement. To cancel the Smart Hub service agreement, select

 Reset Smart Hub (> Settings > Support > Device Care > Self Diagnosis > Reset Smart Hub).

Displaying the Home Screen

Press the **a** button.



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

On the Home Screen, you can easily run the apps you have used previously or frequently. The apps can also be moved or deleted from the screen.

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

• e-Manual

You can open the user manual embedded in your TV.

Picture Mode

You can select the picture mode that provides the best viewing experience. To change the picture mode, press the Select button. To make fine adjustments, press the up directional button, and then select Picture Setup.

Sound Mode

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

Sound Output

You can select which speakers the TV uses for audio output. To change the audio output, press the Select button. To connect to a Bluetooth speaker, press the up directional button, and then select Bluetooth Speaker List.

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

Game Mode

You can enable game mode to optimise the TV's settings for playing video games with a gaming console, such as a PlayStation™, Xbox™ or Nintendo Switch™.

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

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.

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

Network

You can view the current network and Internet status. Press the up directional button, and then select Network Status or Network Settings.

• Picture Size

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

Colour Tone

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

Picture Clarity

You can optimise pictures that contain a lot of motions. To turn this function on or off, press the Select button. To set the detailed options, press the up directional button, and then select Picture Clarity Settings.

This function is supported by TU7 series.

Contrast Enhancer

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

• Digital Output Audio Format

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

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

Colour Space

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

• Device Care

You can run Device Care to diagnose and optimise your TV. Device Care can also check and optimise the TV's storage. If any trouble found, it can call for technical support.

• All Settings

Display the **Settings** menu.

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

2 Source

You can select an external device connected to the TV.

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

3 Q Search

You can search for channels, programmes, movie titles and apps from Smart Hub.

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

4 % Apps

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

- To use this feature, the TV must be connected to the Internet.
- For more information, refer to "Using the Apps Service".

5 Home

This menu appears first when you press the button. Then you can quickly use any of 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.

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

• Q Notification

You can view a list of notifications for all events that occur on your TV. A notification appears on the screen when it is time to broadcast a scheduled programme or when an event occurs on a registered device.

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

- 🗓 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

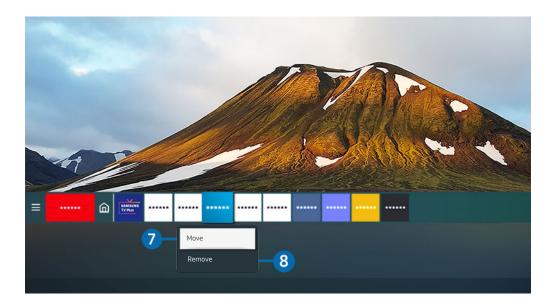
You can view and set the privacy policy for Smart Hub and various other services.

6 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.

- To enjoy the content from these apps on your TV, they must be installed on the TV.
- When you watch some paid content, you may need to make a payment using their associated app.
- Some content may be restricted depending on your network conditions and your subscriptions to paid channels.
- Parental control is necessary when children use this service.
- Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.



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

7 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.

8 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.

You can add the apps you want to use often to the Home Screen using Apps. To add your favourite apps to the Home Screen, refer to "Managing installed apps".

Launching Smart Hub automatically

⑥ > ፡ Settings > General > Smart Features > Autorun Smart Hub ry Now

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

Launching the last used app automatically

♠ > ⊕ Settings > General > Smart Features > Autorun Last App (ry Now)

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

This function may not be supported depending on the app.

Testing Smart Hub connections

♠ > ♦ Settings > Support > Device Care > Self Diagnosis > Smart Hub Connection Test (ry Now)

Resetting Smart Hub

- ♠ > ♠ Settings > Support > Device Care > Self Diagnosis > Reset Smart Hub (ry Now)
- You can reset the Smart Hub settings. To reset Smart Hub, enter the PIN. The default PIN is "0000" (for France and Italy: "1111"). You can set the PIN in (a) > (3 Settings > General > System Manager > Change PIN.

Using a Samsung account

Create and manage your own Samsung account.

- You can view the entire text of the Terms & Privacy in > Settings > General > System Manager > Samsung Account > My Account > Terms & Conditions, Privacy Policy after logging in to your Samsung account.
- You can create a Samsung account at http://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

Sign up for a Samsung account on your mobile or PC. Visit: https://account.samsung.com

Managing your Samsung account

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

• Sign out

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

To sign out of your Samsung Account (Section 2 Section 2 Section 3 Section

• Edit profile

You can edit your account information.

- To protect personal information, enter **Edit profile** and then **Sign-in Method** is set to **Profile image selection and password entry (High security)**.
- If you want the TV to log you into your account automatically whenever you turn on the TV, click **Stay Signed In**.

Payment Info

You can view or manage your payment information.

Back up

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

Sync Internet

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

Remove Account

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

Terms & Conditions, Privacy Policy

You can view the user agreement and privacy policy.

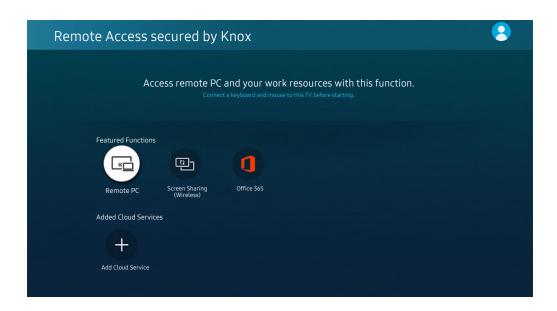
For more information about the terms and conditions, privacy policy, select View Details.

Using Remote Access

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

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

For smooth use as in a computer, connect a keyboard and a mouse to your TV in advance.



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 user name 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 Amanage User Profiles, and then press the Select button. When a popup window appears, select Add, and then enter the PC information.
- To use this function, you must select Allow remote connections to this computer in advance on the Windows PC you want the TV to connect to.
- When your PC enters in power saving mode, connection is not available. It is recommended to cancel the power saving mode.
- 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 check box.
 - 3. Run the resolution changing app downloaded from App Store and then change the resolution to 1440 x 900 or lower.
 - If you do not change the resolution in Mac OS, the previous image may appear while connecting a remote computer.
- Remote connection to a PC running on Windows via the RDP protocol is only supported for Windows 7 or later. And the operating system must be a Professional or higher edition.
- Remote connection to a PC running on Mac via the VNC protocol is only supported for Mac OS X 10.5 or later.
- It is recommended to connect the wired network because the screen or sound may be interrupted depending on the network condition.

Playing Multimedia Content on a Remote PC

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

For more information about playing multimedia content, refer to "Playing pictures/video/music".

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

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

Using Screen Sharing (Wireless)

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

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

Using Office 365

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

- Run the browser in full screen mode.
- URL modification is impossible in the Office 365 page.

Adding the Cloud Service

Select the Add Cloud Service icon. User the bookmarking function of the browser, you can add or delete the cloud service link to or from Remote Access.

- To add the cloud service, you must be signed in to your Samsung account.
- The number of cloud services that can be added to **Remote Access** is limited.

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.

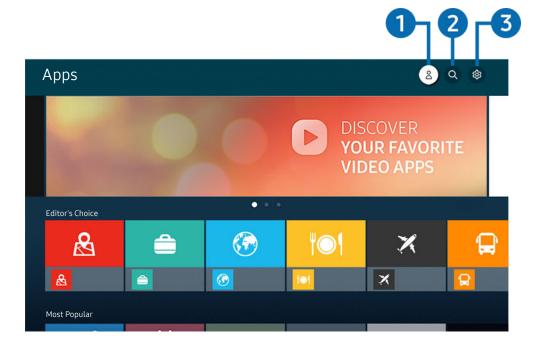
Using the Apps Service

Download and run various apps from Smart Hub.

♠ > 88 Apps

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

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



- The image on your TV may differ from the image above depending on the model and geographical area.
- **1** ≥ Samsung Account

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

- If you want to download new apps using Apps, first sign in to your Samsung account.
- 2 Q App Search

You can search for available apps.

③ ⊗ Settings

You can manage the installed apps.

Installing an app

- 1. Move to the app you want to install, and then press the Select button. The detailed information screen appears.
- 2. Select Install. When the installation is complete, the Open menu appears.
- 3. Select Open to run the app immediately.
- You can view installed apps on the Settings screen.
- You can run an app installed on a USB device only when the USB device is connected to the TV. If the USB device is disconnected while an app is running, the app is terminated.
- You cannot run an app installed on a USB device on a PC or another TV.

Launching an app

You can run the app desired from Downloaded App.

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

- ①: The app is installed on a USB device.
- ①: The app has a password.
- ⊚: The app needs to be updated.
- 📵 : The app supports the mirroring function.

Managing installed apps

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



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

Removing an app

- 1. Select an app to delete.
- 2. Select Delete.

The selected app is deleted.

- Ensure that the related app data is also removed when you remove an app.
- Standard apps cannot be uninstalled.

2 Adding apps to the Home Screen

- 1. Select an app to add.
- 2. Select Add to Home.
- 3. After the Home screen appears, move the selected app to the desired location.
- 4. Press the Select button.

The selected app is added to the Home Screen.

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

- 3 Locking and unlocking apps
- 1. Select an app to lock or unlock.
- 2. Select Lock/Unlock.

The selected app is locked or unlocked.

To lock or unlock an app, enter the PIN. The default PIN is "0000" (for France and Italy: "1111"). You can set the PIN in > Settings > General > System Manager > Change PIN.

4 Moving apps

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

The selected app is moved.

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

6 Reinstalling an app

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

Reinstallation starts.

6 Checking the app information details

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

The app information screen appears.

You can rate an app on the View Details screen.

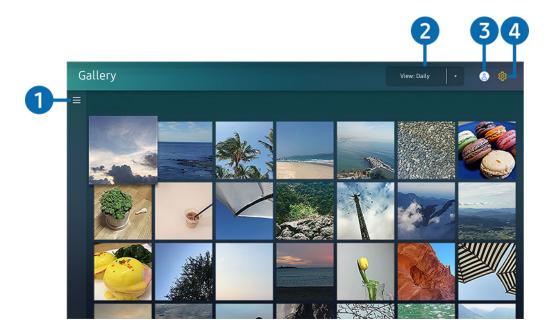
Automatically updating apps

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

Automatic update is enabled only when the TV is connected to the Internet.

Using the Gallery App

View photos and videos synchronised with the Samsung Cloud.



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

You can enjoy various content synchronised with a mobile device that supports the Samsung Cloud. The available content types are photos, videos, stories and other content shared through your groups.

If you have shared content from your groups, you can access them in notifications.

- To use the Gallery app, you must be signed in to your Samsung account that uses the Samsung Cloud.
- To use this function, the PIN number is required.
- ① ≡ Open category

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

2 View: Daily / View: Monthly

Sort the content by day or month.

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

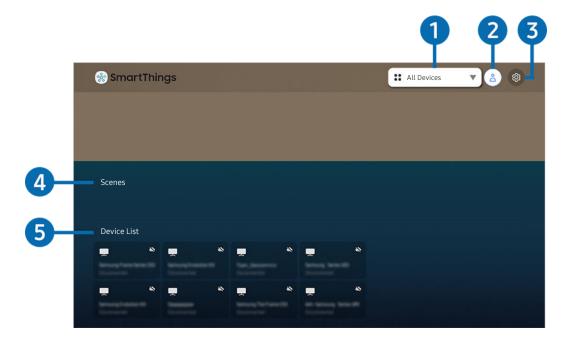
- If you are signed out of your Samsung account, select
 Sign In to sign in.
- 4 @ Gallery Settings

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

Using the SmartThings App

Monitor and configure the smart devices you have connected to the SmartThings service.

SmartThings



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

From 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 connected devices.

- To use this function, you must be logged in to your Samsung account.
- This function may not be supported depending on the model or geographical area.
- 1 Location selection list

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

2 & Samsung Account

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

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.

Device list

View a list of the connected smart devices and their statuses.

You can add and control new devices through the SmartThings app on your mobile device. You can check and control various devices such as speaker, smart devices (IoT devices) and home appliances registered on the server. Please refer to the user guide of the SmartThings app on your mobile device for more details.

Controlling your TV with the mobile SmartThings app

You can register your TV and use some features of the TV through the SmartThings app on your mobile device.

Using the e-Manual

Control and read the manual embedded in your TV.

Launching the e-Manual

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

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

Using the buttons in the e-Manual



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

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

2 & (Site Map)

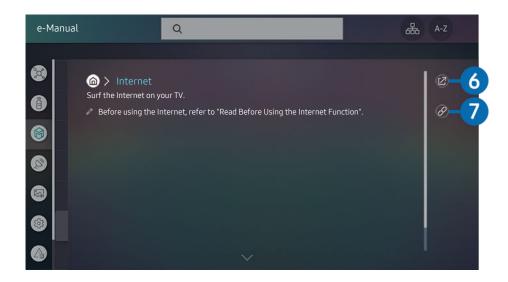
It displays the lists for each item in e-Manual.

- 3 A-Z (Index)
- Select a keyword to navigate to the relevant page.
- This function may not be supported depending on the model or geographical area.
- 4 Moving to FAQ

You can find the troubleshooting of the selected symptom.

(Recently Viewed Topics)

Select a topic from the list of recently viewed topics.



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

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

7 Ø (Link)

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

Using the Internet

Surf the Internet on your TV.

> Internet

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

- You can use the **Internet** function more easily after connecting a keyboard and mouse.
- The web pages may differ from those on a PC.
- Before using the Internet, refer to "Read Before Using the Internet Function".
- The Internet app has an embedded Samsung Pass (> Internet > Internet Menu > Samsung Pass Settings). With Samsung Pass, you can log into the website easily and securely. When you visit the website again, you can log in with Samsung Pass Biometrics Authentication on your mobile device without entering your ID and password. However, this Samsung Pass login may not work depending on the website policy. For this purpose, you must have been logged in the mobile device with a Samsung account registered in Samsung Pass.

Playing pictures/video/music

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



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

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

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

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

1 Filter By

Filters the media content by type of media.

2 Sort By

Sorts the content list by Title, Date or Channel.

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

3 Options

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

Playing multimedia content on a PC or mobile device

- 1. Select a device with media content in **(a)** > **(b)** Source. The media content list in the device appears.
- 2. Select a media content item from the list.

The selected content is played.

- The content may not be played depending on the encoding method or file format. Furthermore, several functions may be restricted.
- Content on devices connected to the TV via your network may not play smoothly due to network communication problems. If this occurs, use a USB device.

Playing multimedia content on a USB device

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

The selected content is played.

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

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

The selected contents media is played through the TV speaker.

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

Buttons and functions available while playing multimedia content

Press the Select button while playing any video or photo contents. The following buttons appear.

- The provided buttons and functions may not be supported depending on the model or geographical area.
- The available buttons and functions may differ with the content you are viewing or playing.

Pause / Play

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

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

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

- Move to a specific playback section, move up the focus on the playback bar, and then select one of the five thumbnails.
 - This function may not be supported depending on the file format.

Stop

Stop the contents being played.

Previous / Next

Displays the previous or the next multimedia content file.

Rewind / Fast Forward

Rewinds or fast forwards the multimedia content. To increase the rewind or fast forward speed up to 3 times faster than normal, select the button repeatedly. To return to normal speed, select the poption or press the button.

Repeat

Plays the current multimedia content repeatedly or all multimedia content files in the same folder repeatedly.

Shuffle

Plays music files in random order.

• Picture Off

Plays music files with the screen off.

• Fit to Screen

Fits a photo to the screen.

• Rotate left / Rotate right

Rotates a photo left or right.

• Zoom

Zooms in a photo.

• Background Music

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

This function is available after enabling the **Background Music** option.

• Options

The available options may differ with the model and content.

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

TV Viewing

You can use convenient features while watching TV. Additionally, you can edit the channel list or create favourite channel lists.

Using the Guide

See an overview of each channel's programme lineup.

(in > Live TV > Guide (fry Now)



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

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.

- To view the **Guide** while watching TV, press GUIDE button on the 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).
- Service provider settings in initial setup may not be supported on geographical area.

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:

Schedule Viewing

You can schedule the viewing of a broadcast scheduled programme.

Cancel Scheduled Viewing

You can cancel scheduled viewings.

View Details

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

Setting Up a Schedule Viewing

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

- \nearrow The \bigcirc appears next to programmes that have been configured for a scheduled viewing.
- To set up a schedule viewing, you must first set the TV's clock (Settings > General > System Manager > Time > Clock).

Using the schedule viewing options from the guide screen

On the **Guide** screen, select a programme you would like to view, press 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 specified time on a specified date

♠ > Live TV > Schedule Manager > Add Viewing

To schedule a viewing, set the values for Aerial, Channel, Repeat, Date and Start Time of the broadcast programme to view, and then select Save.

Setting the schedule Viewing Time

> Live TV > Schedule Manager

You can change scheduled viewing information or cancel scheduled viewings.

- You can set up a maximum total of 30 **Schedule Viewing** entries.
- Edit

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

Delete

You can delete scheduled viewings.

View Details

You can view detailed information about scheduled viewings.

Using the Channel List

Change the channel or check programmes on other digital channels.

> Live TV > Channel List

Using the Channel List, you can change the channel or check programmes on other digital channels while watching TV. On standard remote control, press the CH LIST button.

The Channel List screen contains the following icons:

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

If you press the left directional button when viewing the Channel List screen, you can use the following functions:

• Terrestrial, Cable or Satellite

Allows you to choose between Terrestrial, Cable and Satellite.

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

All

Displays the channels that have been automatically searched.

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

Samsung TV Plus

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

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

Favourites

Displays Favourites 1 to Favourites 5.

It displays only the favourites list that includes the favourites channel.

Channel Type

Sorts the list so that it includes channels of a selected type. However, **Channel Type** can only be used channels contain the type information.

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

Sort

Sorts the list by Number or by Name.

This option is only available on digital channels and may not always be available.

Editing channels

Edit the channels stored on your TV.

> Live TV > Channel List > Edit Channels

The Edit Channels screen icons indicate the following:

- ■: A favourite 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**.

Lock / Unlock

After selecting a target channel in **Edit Channels**, select **Lock** or **Unlock**. Then the channel is locked or unlocked. A locked channel cannot be viewed.

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

Rename channel

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

- You can rename only one channel at a time.
- This function is only available for analogue broadcasts.

Change Number

After selecting a channel to change in Edit Channels, select Change Number to change the channel number.

- This function may not be supported depending on the model or geographical area.
- When a channel number is changed, its channel information is not updated automatically.

• Restore Samsung TV Plus

You can restore the deleted Samsung TV Plus channels.

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

Save and Exit

Saves and closes the Edit Channels screen.

Using a Personal Favourites List

Designate frequently watched channels as favourite channels.

Favourite channels are highlighted in the Edit Channels and Channel List screens with the ♥ symbol. You can create up to five favourites lists so that your family members can create their own personal favourites list.

Create a favourites list

> Live TV > Channel List > Edit Channels

- 1. Press the left directional button on the remote control to select the desired Favourites 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 Favourites list.

Select Favourites 1 - Favourites 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 favourites list and then select Add Channels.

Remove

Removes one or more channels from a favourites list.

Change order

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

· Rename Favourites

Renames a favourites list.

Save and Exit

Saves and closes the Edit Channels screen.

TV-Viewing Support Functions

Use the functions that are available while watching TV.

Changing the broadcast signal

(a) > Live TV > Channel List

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

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

Scanning for available channels

- ♠ >
 Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning
- This function may not be supported depending on the model or geographical area.
- If the TV is connected to a cable box or satellite box, you do not need to do this.
- The DVB-T2 system may not be supported depending on the geographical area.
- The Auto Tuning Settings may not appear depending on the model or geographical area.

Selecting the cable network search option

♠ > ♥ Settings > Broadcasting > (Auto Tuning Settings) > Cable Search Option

Sets additional search options such as the frequency and symbol rate for a cable network search.

- This function may not be supported depending on the model or geographical area.
- The Auto Tuning Settings may not appear depending on the model or geographical area.

Scanning for available channels on standby mode

♠ > ♠ Settings > Broadcasting > (Auto Tuning Settings) > Standby Auto Tuning

Automatically scan for channels while your TV is in standby mode.

- This function may not be supported depending on the model or geographical area.
- The Auto Tuning Settings may not appear depending on the model or geographical area.

Setting the Wake-up time

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

Schedule timer to turn the TV on and scan channels automatically.

- This function may not be supported depending on the model or geographical area.
- The Auto Tuning Settings may not appear depending on the model or geographical area.

Checking digital channel signal info and strength

- ♠ > ♠ Settings > Support > Device Care > Self Diagnosis > Signal Information (ry Now)
- If your TV is attached to a separate, over-the-air antenna, you can use the signal strength information to adjust the antenna for increased signal strength and improved HD channel reception.
- Signal Information is only available for digital channels.
- This function may not be supported depending on the model or geographical area.

Restricting Viewing to Specific Channels

By selecting the menu, you can turn on or off the Apply Channel Lock function.

Lock specific channels to prevent children from watching adult content.

To use this function, the PIN number is required.

Using Mark Adult Channels

♠ > ♥ Settings > Broadcasting > Mark Adult Channels

Enables or disables all adult services. When disabled, adult services will not be available.

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

Selecting the broadcasting audio option

Set audio options for stereo or bilingual broadcasts. For more information, refer to "Supported broadcasting audio options".

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

Using Programme Rating Lock

- ♠ > ♠ Settings > Broadcasting > Programme Rating Lock (ry Now)
- This function may not be supported depending on the model or geographical area.

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

Programme Rating Lock does not, however, block programmes originating from external sources, such as Blu-ray players, DVD players or USB files.

Every time you access Programme Rating Lock, you must enter the security PIN. You must also enter this PIN to watch a blocked programme. The default PIN is "0000" (for France and Italy: "1111"). To change the PIN, go to \$\infty\$ Settings > General > System Manager > Change PIN.

- For more information about how to set your password, refer to "Setting up a password".
- The **Broadcasting** is not available in HDMI or Component mode.
- Programme Rating Lock may not be supported depending on your input signal.

Showing common interface menu

You can view information about common interfaces.

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

Cl Menu

Show information and settings of CICAM.

• Application Info

Show the manufacturer of CICAM and information of CAS (Conditional Access System).

• CICAM PIN Manager

Manage Common Interface Common Access Module (CICAM) PIN. Save PIN or change stored PIN, and then set other PIN options.

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

• Descramble Mode

CAM video transcoding

Configures the setting to transcode the video codec from the CAM automatically. Turn it Off if you do not want to use it.

You must use a CAM that supports video codec transcoding.

Configuring advanced broadcasting settings

♠ > ♦ Settings > Broadcasting > Expert Settings (ry Now)

Tuning broadcast signals manually

♠ > ♦ Settings > Broadcasting > Expert Settings > Manual Tuning (ry Now)

You can scan for all the channels manually and store the scanned channels in the TV.

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

Tuning digital channels

♠ > ⊕ Settings > Broadcasting > Expert Settings > Manual Tuning > Digital Channel Tuning

Select New, and then configure Channel, Frequency and Bandwidth, and then select Search to automatically scan and store a list of digital channels in the TV.

Tuning analogue channels

♠ > ♦ Settings > Broadcasting > Expert Settings > Manual Tuning > Analogue Channel Tuning

Select New and configure Programme, Colour System, Sound System, Channel and Search to scan for analogue channels. Then, select Store to store the scanned channels in the TV.

This function is only available for analogue broadcasts.

Fine-tuning analogue broadcasts

- ⓐ > ፡ Settings > Broadcasting > Expert Settings > Fine Tune (ry Now)
- This function is only available for analogue broadcasts.

Transferring channel list

♠ >

Settings > Broadcasting > Expert Settings > Transfer Channel List

You can import or export the channel list to a USB storage. To use this function, the PIN number is required.

- Import from USB: Imports channel list from a USB storage.
- Export to USB: Exports channel list saved in the TV to a USB storage.
- This function is available when USB is connected.
- This function may not be supported depending on the model or geographical area.

Enabling/Disabling Edit Channel Numbers

⑥ > ፡ Settings > Broadcasting > Expert Settings > Edit Channel Numbers

Use this to change channel number. When channel number is changed, channel information is not updated automatically.

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

Deleting CAM operator profile

- ♠ > ♥ Settings > Broadcasting > Expert Settings > Delete CAM Operator Profile
- This function may not be supported depending on the model or geographical area.

Setting satellite system

♠ > ♠ Settings > Broadcasting > Expert Settings > Satellite System

You can configure a set of satellite dish settings before performing a channel scan.

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

Changing teletext language

♠ >
 Settings > Broadcasting > Expert Settings > Teletext Language Settings > Teletext Language

You can set or change the teletext language. To watch the teletext broadcast in your preferred language, select a language to use in **Primary Teletext Language**. If this language is not supported, you can watch the teletext broadcast in your secondary preferred language set in **Secondary Teletext Language**.

Selecting the broadcast audio language

This is the language you will hear while watching TV if the language is included in the broadcast signal. Audio Options functions differently for analogue and digital channels.

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

You can change the audio language you want to hear.

- The available language may differ with the broadcast.
- Audio Format

You can change the audio format you want to hear.

- The supported audio format may differ with the broadcast programme.
- This option is only available on digital channels.

Showing TVkey Interface menu

♠ > ♠ Settings > Broadcasting > Expert Settings > TVkey Interface

You can use the following functions:

- TVkey Menu: Show TVkey Interface menu.
- Delete TVkey Operator Profile: Show the TVkey operator list to delete.
- This function may not be supported depending on the model or geographical area.

Reading digital text

♠ >
 Settings > Broadcasting > Expert Settings > Digital Text (MHEG)

You can use this function when you watch a broadcast that includes both text and multimedia content.

- This function is only available in Ireland.
- Multimedia and Hypermedia Information Coding Experts Group (MHEG) is an International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including Video-On-Demand (VOD), Interactive TV (ITV), Electronic Commerce (EC), tele education, teleconferencing, digital libraries and network games.

Picture and Sound

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

Adjusting the Picture Quality

Change the Picture Mode and adjust Expert Settings.

Choosing a picture mode

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

• 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 is supported by TU7 series.
- This function is activated only upon inputs defined as FILMMAKER MODE.
- 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.

Configuring advanced picture settings

♠ > ② Settings > Picture > Expert Settings (Try Now)

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

- Brightness (Try Now)
- Contrast Try Now
- Sharpness (Try Now)
- Colour (Try Now)
- Tint (G/R) (Try Now)
- Apply Picture Settings (Try Now)
- Picture Clarity Settings Try Now
 - When LED Clear Motion is set to On, the screen appears darker than when it is Off.
 - This function is supported by TU7 series.
- Contrast Enhancer Try Now
- Film Mode (Try Now)
 - This function is only available when the input signal is TV, AV, Component (480i, 576i, 1080i), or HDMI (1080i).
- Colour Tone Try Now
- White Balance (Try Now)
- Gamma (Try Now)
- Shadow Detail Try Now
- RGB Only Mode Try Now
 - This function is supported by TU7 series.
- Colour Space Settings Try Now
- Reset Picture (Try Now)

Setting the Viewing Environment for External Devices

You can optimise the TV for viewing specific video formats.

Playing games on an optimised screen

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

You can enable game mode to optimise the TV's settings for playing video games with a gaming console, such as a PlayStationTM, XboxTM or Nintendo SwitchTM.

- This function may not be supported depending on the model or geographical area.
- The game mode is not available for normal TV viewing.
- The screen may shake somewhat.
- When **Game Mode** is enabled, **Picture Mode** and **Sound Mode** are switched to **Game** automatically. **Sound Mode** may not be automatically switched depending on the selected audio device on the **Sound Output** menu.
- When Game Mode is set to On, some functions are not available.
- To use a different external device on the same port, remove the game console connection, set **Game Mode** to **Off**, and then connect the external device to the port.
- The Game Mode functions used for Nintendo Switch™ are subject to change without prior notice.

Using Input Signal Plus

♠ > ♥ Settings > General > External Device Manager > Input Signal Plus (ry Now)

Expands the input signal range for HDMI connections.

- When you select the HDMI connector you want to use for **Input Signal Plus**, and then press the Select button to set the **Input Signal Plus** function to **On**, the TV screen may flicker.
- When you connect the TV to an external device that supports only the UHD 24 Hz or UHD 30 Hz frequency or any FHD frequency, the Input Signal Plus function may not be available. In this case, turn off the Input Signal Plus function.
- For more information about the supported UHD resolutions, refer to "Supported Resolutions for UHD Input Signals".
- This function is supported by TU7 series.

Using HDMI black level

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

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

Picture Support Functions

Configure the picture settings for your TV.

Viewing a picture-in-picture (PIP)

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

- This function may not be supported depending on the model or geographical area.
- PIP is not available while Smart Hub is active.
- Playing a game or using the karaoke function on the main screen can result in lower PIP picture quality.
- The PIP function is only available under the following conditions: 1) The main screen's source is a Component or HDMI connection. 2) The input resolution is less than FHD (Full HD).
- The PIP window supports digital channels only and does not support UHD channels.

Changing the picture size settings

- Picture Size Try Now

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

- Supported picture sizes differ with the input signal. For more information about supported picture sizes, refer to "Picture sizes and input signals".
- Auto Wide Try Now

Changing the picture size automatically.

- This function may not be supported depending on the model or geographical area.
- 4:3 Screen Size (Try Now

You can select a picture size suitable for your geographical area while you are watching TV in the 4:3 or Fit to screen mode. The supported screen sizes differ with the country and this function allows you to adjust the picture size in this case.

- The 4:3 mode is not available when an external device is connected to the TV via a Component connector or an HDMI connector.
- This function may not be supported depending on the model or geographical area.
- Fit to screen Try Now

Fitting the picture to the screen.

- This function may not be supported depending on the **Picture Size** setting.
- This function may not be supported depending on the broadcast signals.
- Zoom and Position (Try Now)

Adjusting the picture size and/or position.

- This function is available only if **Picture Size** is set to **Custom**.
- To change the picture position on analogue channels, first enlarge the picture and then change the position.
- These functions may not be available on Samsung TV Plus and some applications.

Configuring a Sound Mode and Expert Settings

Change the Sound Mode and adjust Expert Settings.

Choosing a sound mode

♠ > ♦ Settings > Sound > Sound Mode (ry Now)

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

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

Configuring advanced sound settings

♠ >
 Settings > Sound > Expert Settings (ry Now)

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

- Balance Try Now
- Equaliser (Try Now)
 - 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.

- This function is supported by TU7 series.
- Digital Output Audio Format (Try Now)

Select the digital audio output format. If you select the Auto option, the audio device automatically outputs in a supported format.

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

Digital Output Audio Delay (Try Now)

- This feature is only available when the external device is connected via HDMI (ARC) 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 (Try Now)

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

Set to On if the audio device connected via HDMI (ARC) 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.
- The HDMI (ARC) port may support eARC in some models.

Auto Volume (Try Now)

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

- Sound Feedback (Try Now)
- Reset Sound (Try Now)
 - Standard audio signals are sampled at 48 kHz while HD audio signals are sampled at 96 kHz.
 - Some SPDIF receivers may not be compatible with HD audio format.

Using the Sound Support Functions

Configure the sound settings for your TV.

Selecting speakers

♠ > ♦ Settings > Sound > Sound Output (ry Now)

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.
- Refer to the sound bar's user manual when connecting it to the TV.

Listening to the TV through Bluetooth devices

You can connect Bluetooth audio devices to the TV. They must be paired using the TV's Bluetooth function. 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/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 is supported by TU7 series.

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

For more information about how to connect and use a Samsung audio device that supports the Wi-Fi function, refer to its user manual.

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

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

Using the Time Functions and the Timers

Set the current time and use the timer function.

♠ >
 Settings > General > System Manager > Time (ry Now)

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

You must set the clock in the following cases:

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

Setting the clock automatically

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

Adjusting the clock for DST and time zone

(a) > **(a)** Settings > General > System Manager > Time > Clock > Time Zone

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

- This function is only available when the Clock Mode is set to Auto.
- This function may not be supported depending on the model or geographical area.
- GMT

Set Greenwich Mean Time (GMT).

DST

Automatically adjust for Daylight Saving Time (DST).

Changing the current time

♠ >
 Settings > General > System Manager > Time > Clock > Time Offset

Time Offset adjusts the time through a network connection.

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

Setting the clock manually

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

Using the sleep timer

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

You can use this function to automatically shut off the TV after a pre-set period of time. You can set the sleep timer for up to 180 minutes after which it will turn off the TV.

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

Turning off the TV using the off timer

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

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

- To use this function, first set the Clock (Settings > General > System Manager > Time > Clock).
- This function may not be supported in some viewing modes.

Using the Auto Protection Time and Energy Saving Functions

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

Setting the Auto Protection Time

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

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

Reducing the energy consumption of the TV

♠ > ♦ Settings > General > Eco Solution (ry Now)

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

- This function is supported by TU7 series.
- Ambient Light Detection (Try Now)

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 (Try Now)

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 (Try Now)

Adjust the brightness settings to reduce the TV's power consumption.

Motion Lighting (Try Now)

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

Auto Power Off Try Now

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

Updating the TV's Software

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

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

♠ >

Settings > Support > Software Update (ry Now)

Updating through the Internet

Updating from the Internet requires an active Internet connection.

Updating through a USB device

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

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

Updating the TV automatically

If the TV is connected to the 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

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

Running the accessibility functions

♠ > ♦ Settings > General > Accessibility (Try Now)



Running Accessibility Shortcuts

The Accessibility Shortcuts provide easy access to the accessibility functions. To display the Accessibility Shortcuts, press the AD/SUBT. 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, Audio Description, Subtitle, High Contrast, Enlarge, Learn TV Remote, Menu Learning Screen, Multi-output Audio, Slow Button Repeat, Accessibility Settings, etc.

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

Enabling voice guides for the visually impaired

♠ > ♦ Settings > General > Accessibility > Voice Guide Settings (ry Now)

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

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

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

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

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

Audio Description

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

- This function is only available on digital channels.
- Audio Description

Turns the audio description function on or off.

• Audio Description Volume

Adjusts the audio description volume.

The TV screen is turned off but audio continues

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

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

White text on black background (high contrast)

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

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

Enlarging the font (for the visually impaired)

♠ > ♠ Settings > General > Accessibility > Enlarge (ry Now)

You can enlarge the size of the font on the screen. To activate, set Enlarge to On.

Learning about the remote control (for the visually impaired)

♠ > ♥ Settings > General > Accessibility > Learn TV Remote (ry Now)

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

This function is only available when Voice Guide is enabled.

Learning about the TV menu

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

This function is only available when Voice Guide is enabled.

Watching TV broadcasts with subtitles

♠ > ♦ Settings > General > Accessibility > Subtitle Settings (Try Now)

Set Subtitle to On. Then you can watch the programme with the subtitle displayed.

- This function may not be supported depending on the model or geographical area.
- This function has no relationship with the features for controlling sub-titles of DVD or Blu-ray players. To control DVD or Blu-ray subtitles, use the sub-title feature of the DVD or Blu-ray player and the player's remote control.
- Subtitle

Turns on or off the subtitle.

Subtitle Mode

Sets the subtitle mode.

• Subtitle Language

Sets the subtitle language.

• Spoken Subtitles

Listen to an audio version of the subtitles. Only available with broadcasts that provide this service.

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

Selecting the broadcasting subtitle language

You can select the default subtitle language. The list may vary depending on the broadcast.

• Primary Subtitle Language

Sets the primary subtitle language.

• Secondary Subtitle Language

Sets the secondary subtitle language.

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

♠ > ♠ Settings > General > Accessibility > Multi-output Audio

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

- This function is supported by TU7 series.
- When you connect the Bluetooth headphone to the TV, **Multi-output Audio** is activated. For more information about connecting Bluetooth devices to the TV, refer to "Listening to the TV through Bluetooth devices".

Configuring the repeat settings for remote control buttons

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

Using Other Functions

You can view other functions.

Changing the menu language

♠ > ♠ Settings > General > System Manager > Language (Try Now)

Setting up a password

⑥ > ፡ Settings > General > System Manager > Change PIN [ry Now]

The PIN input window appears. Enter a PIN. Enter it again to confirm it. The default PIN is "0000" (for France and Italy: "1111").

If you forget your PIN, you can reset it with your remote control. With the TV turned on, press the following buttons on the remote control in the order shown to reset the PIN to "0000" (for France and Italy: "1111").

On the remote control: Select ⋈ button. > (+) (Volume Up) > Select RETURN button. > (-) (Volume Down) > Select RETURN button. > (+) (Volume Up) > Select RETURN button.

Selecting Usage or Retail Mode

♠ > ♦ Settings > General > System Manager > Usage Mode (ry Now)

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

- For all other uses, select Home Mode.
- Use **Retail Mode** only in a store. With **Retail Mode**, some functions are disabled and the TV settings automatically reset after a preset amount of time.

Managing External Devices

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

Access Notification

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

Device List

Manage a list of external devices registered to the TV.

Using AirPlay

♠ > ② Settings > General > Apple AirPlay Settings

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

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

Restoring the TV to the factory settings

♠ > ֎ Settings > General > Reset [ry Now]

You can restore all TV settings to the factory defaults.

- 1. Select Reset. The security PIN entry window appears.
- 2. Enter the security PIN, and then select **Reset**. All settings are then reset. The TV turns off and on again automatically and displays the Initial Setup screen.
- For more information on **Reset**, refer to the user manual that came with the TV.
- If you skipped some steps in the initial setup, run Set Up TV (♠ > → Source > up directional button > TV > up directional button > Set Up TV), and then configure the settings in the steps you skipped.

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 (a) > (a) 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 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")

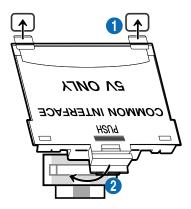
Watches paid channels by inserting your TV Viewing Card ("CI or CI+ Card") into the COMMON INTERFACE slot.

- The 2 CI card slots may not be supported depending on the model.
- Turn the TV off to connect or disconnect a "CI or CI+ Card".
- The "CI or CI+ Card" may not supported depending on the model.

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

Only for models with Common interface slot.

Attaching the CI CARD Adapter via COMMON INTERFACE slot



To attach the CI CARD Adapter to the TV, follow these steps:

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

Connecting the "CI or CI+ Card"

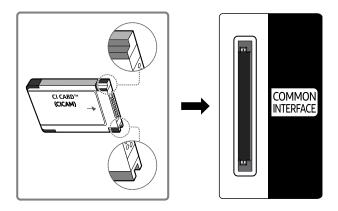
Connect the "CI or CI+ Card" to the COMMON INTERFACE slot as shown in the image below.



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

Only for models with Common interface slot.

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



Using the "CI or CI+ Card"

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

- Samsung TV follow up CI+ 1.4 standard. When Samsung TV display the pop-up message, it may happen due to CI + 1.4 Version inconsistency. If you have a problem, please contact Samsung Call Centre.
 - ✓ Your Samsung TV conforms to the CI+ 1.4 standards.
 - Where a CI+ Common Interface module is incompatible with Samsung TV then please remove the module and contact the CI+ operator for assistance.
- If you don't insert the "CI or CI+ CARD", some channels will display the pop-up message.
- The pairing information will be displayed in about 2-3 minutes. If an error message is displayed, please contact your service provider.
- When the configuration of channel information has finished, the message "Updating Completed" is displayed, indicating the channel list is updated.
- You must obtain a "CI or CI+ CARD" from a local cable service provider.
- When removing the "CI or CI+ CARD", carefully pull it out with your hands since dropping the "CI or CI+ CARD" may cause damage to it.
- The location of the COMMON INTERFACE slot may be different depending on the model.
- "CI or CI+ CARD" is not supported in some countries and regions. Check with an authorised dealer to find out if "CI or CI+ CARD" is supported in your locality.
- Insert the "CI or CI+ CARD" that supports the current aerial settings. If not, the screen may not look normal.

Teletext Feature

Learn how to use Teletext and run the functions provided by Teletext Service.

- This function is available only in the channel that supports the teletext service.
- This function may not be supported depending on the model or geographical area.
- To enter the Teletext feature, press the
 □/ TTX/MIX button.
- 🥒 To exit from the Teletext feature, 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, press the numeric button.
- The Teletext function icons are printed on some remote control buttons. To run a Teletext function, find its icon printed on a remote control button, and then press the found button.

■/ TTX/MIX

Full TTX / Double TTX / Mix / Live TV: The teletext mode is activated in the channel that is being watched. Each time you press the $\text{Mix} \rightarrow \text{Live}$ TTX/MIX button, the teletext mode changes in the order of Full TTX \rightarrow Double TTX \rightarrow Mix \rightarrow Live TV.

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

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

SETTINGS

Index: Displays the index (contents) page at any time while you are viewing Teletext.

PRE-CH

Sub Page: Displays the available sub-page.

SOURCE

List/Flof: Selects the Teletext mode. If pressed during LIST mode, switches the mode to List save mode. In List save mode, you can save a Teletext page into a list using the (S) (CH LIST) button.

CH LIST

Store: Stores the Teletext pages.

⊕ CH ∧

Page Up: Displays the next Teletext page.

CH ✓

Page Down: Displays the previous Teletext page.

■? INFO

Reveal/Conceal: Displays or hides the hidden text (answers to quiz games, for example). To display the normal screen, press it again.

■ AD/SUBT.

Depending on the model or geographical area.

Size: Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of the screen, press it again. For normal display, press it once again.

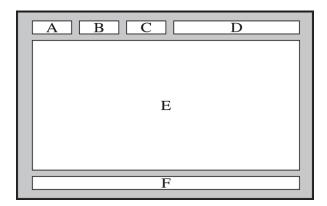
(≡₹) RETURN

Hold: Holds the display at the current page, in the case that there are several secondary pages that follow automatically. To undo, press it again.

EX EXIT

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

Typical Teletext page



Part	Contents			
А	Selected page number.			
В	Broadcasting channel identity.			
С	Current page number or search indications.			
D	Date and time.			
Е	Text.			
F	Status information. FASTEXT information.			

Precautions and Notes

You can get instructions and information that you must read after installation.

Supported broadcasting audio options

Check the supported broadcasting audio options.

	Audio Type	Dual Sound	Default
	Mono	Mono	Automatic change
A2 Stereo	Stereo	Stereo, Mono	Automatic change
	Dual	Dual I, Dual II	Dual I
	Mono	Mono	Automatic change
NICAM Stereo	Stereo	Mono, Stereo	Automatic change
NICAM Stereo	NICAM Dual	Mono, NICAM Dual-1, NICAM Dual-2	NICAM Dual-1

If the Stereo signal is too weak and an automatic switching occurs, select Mono.

Available only for the stereo signals.

Available only when the input source is set to TV.

Read Before Using Apps

Read this information before using Apps.

- If you want to download new apps using Apps, first sign in to your Samsung account.
- Due to the product characteristics featured on Samsung Smart Hub, as well as limitations in available content, certain features, applications and services may not be available on all devices or in all territories. Visit http://www.samsung.com for more information on specific device information and content availability. Services and content availability are subject to change without prior notice.
- Samsung Electronics takes no legal responsibility whatsoever for any interruption of app services caused by the service provider for any reason.
- Application services may be provided in English only and available content may differ with the geographical area
- For more information about applications, visit the applicable service provider's website.
- An unstable Internet connection may cause delays or interruptions. In addition, applications may terminate
 automatically depending on the network environment. If this occurs, check your Internet connection and try
 again.
- Application services and updates may become unavailable.
- Application content is subject to change by the service provider without prior notice.
- Specific services may differ with the version of the application installed on the TV.
- An application's functionality may change in future versions of the application. If this occurs, run the application's tutorial or visit the service provider's website.
- Depending on the service provider's policies, certain applications may not support multitasking.

Read Before Using the Internet Function

Read this information before using the Internet function.

- File download is not supported.
- The Internet function may not be able to access certain websites, including websites operated by certain companies.
- The TV does not support playback of flash videos.
- E-commerce for online purchases is not supported.
- ActiveX is not supported.
- Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
- The response to remote commands and the resulting on-screen display may be delayed while a web page is loading.
- Loading a web page may be delayed or suspended completely depending on the status of the participating systems.
- Copy and paste operations are not supported.
- When composing an email or a simple message, certain functions such as the font size and colour selection may not be available.
- There is a limit to the number of bookmarks and the size of the log file that can be saved.
- The number of windows that can be opened concurrently is limited.
- Web browsing speed will differ with the network environment.
- Embedded videos in a web page cannot be played at the same time while the PIP (picture-in-picture) function is operating.
 - This function may not be supported depending on the model or geographical area.
- Browsing history is saved from latest to oldest, with the oldest entries being overwritten first.
- Depending on the types of video/audio codecs supported, you may not be able to play certain HTML5 video and audio files.
- Video sources from PC-optimised streaming service providers may not play properly on our proprietary Internet browser.

Read before setting up a wireless Internet connection

Precautions for wireless Internet

- This TV supports the IEEE 802.11 a /b /g /n /ac communication protocols. Samsung recommends using IEEE 802.11n. Video files stored on a device connected to the TV via a Home Network may not play back smoothly.
 - Some of the IEEE 802.11 communication protocols may not be supported depending on the model or geographical area.
- To use wireless Internet, the TV must be connected to a wireless access point or modem. If the wireless access point supports DHCP, the TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel that is not currently being used by the wireless access point. If the channel set is currently being used by the wireless access point to communicate with another device, the result is usually interference and/or a communications failure.
- Most wireless networks have an optional security system. To enable a wireless network's security system, you need to create a password using characters and numbers. This password is then needed to connect to a security-enabled access point.

Wireless security protocols

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

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

In compliance with the Wi-Fi certification specifications, Samsung TVs do not support WEP or TKIP security encryption in networks running in the 802.11n mode. If the wireless access point supports WPS (Wi-Fi Protected Setup), you can connect the TV to your network using PBC (Push Button Configuration) or a PIN (Personal Identification Number). WPS automatically configures the SSID and WPA key settings.

Read Before Playing Photo, Video or Music Files

Read this information before playing media content.

Limitations to the use of photo, video and music files (ry Now

- The TV supports MSC (Mass Storage Class) USB devices only. MSC is a class designation for mass storage devices. Types of MSC devices include external hard drives, flash card readers and digital cameras. (USB hubs are not supported.) These kinds of devices must be connected directly to the USB port. The TV may not be able to recognise a USB device or read the files on the device if it is connected with a USB extension cable. Do not disconnect USB devices while they are transferring files.
- When connecting an external hard drive, use the USB (HDD 5V 1A) port. We recommend that you use an external hard drive with its own power adapter.
- Certain digital cameras and audio devices may not be compatible with the TV.
- If there are multiple USB devices connected to the TV, the TV might not be able to recognise some or all the devices. USB devices that use high-power input should be connect to the USB (HDD 5V 1A) port.
- The TV supports the FAT, exFAT and NTFS file systems.
- In the media contents list, the TV can display up to 1,000 files per folder. If the USB device contains more than 8,000 files and folders, however, some files and folders might not be accessible.
- Certain files, depending on how they are encoded, may not play on the TV.
- Certain files are not supported on all models.
- The DivX and DTS codecs are not supported by the Samsung TV models released in 2020.

Supported subtitles

Subtitle formats

Name	Format
MPEG-4 Timed text	.ttxt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass
SMPTE-TT Text	.xml

Video formats with subtitles

Name	Container
Xsub	AVI
SubStation Alpha	MKV
Advanced SubStation Alpha	MKV
SubRip	MKV
VobSub	MKV
MPEG-4 Timed text	MP4
TTML in smooth streaming	MP4
SMPTE-TT TEXT	MP4
SMPTE-TT PNG	MP4

Supported image formats and resolutions

File extension	Format	Resolution
*.jpg *.jpeg	JPEG	15360 x 8640
*.png	PNG	4096 x 4096
*.bmp	ВМР	4096 x 4096
*.mpo	MPO	15360 x 8640

The MPO format is supported partly.

Supported music formats and codecs

File extension	Format	Codec	Note
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to 2 channels
*.ogg	OGG	Vorbis	Supports up to 2 channels
*.wma	WMA	WMA	WMA is supported up to 10 Pro 5.1 channels. WMA lossless audio is not supported.
*.wav	wav	wav	
*.mid *.midi	midi	midi	Supports type 0 and type 1. Seek is not supported. Supports USB device only.
*.ape	ape	ape	
*.aif *.aiff	AIFF	AIFF	
*.m4a	ALAC	ALAC	

Supported video codecs (TU7 series)

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs
*.avi *.mkv		H.264 BP/MP/HP	3840 x 2160	3840 x 2160: 30 1920 x 1080: 60	50	
*.asf *.wmv	AVI	HEVC (H.265 - Main, AVI Main10)		60	50	Dolby Digital
*.mp4	MKV	Motion JPEG				LPCM
*.mov	ASF	MVC				ADPCM(IMA, MS)
*.3gp	MP4	MPEG4 SP/ASP				
.ogp *.vro	3GP	Window Media Video v9 (VC1)		60	60	AAC HE-AAC
*.mpg	MOV	MPEG2				
*.mpeg	FLV	MPEG1	1920 x 1080		20	Dolby Digital+
*.ts	VRO	Microsoft MPEG-4 v1, v2, v3			-	MPEG(MP3)
*.tp *.trp *.flv	VOB PS TS	Window Media Video v7 (WMV1), v8 (WMV2)		30		AC-4 G.711(A-Law, μ- Law)
*.vob	SVAF	H.263 Sorrenson				OPUS
*.svi		VP6				
*.m2ts *.mts		AV1	3840 x 2160	60	40	
		VP8	1920 x 1080	60	20	
*.webm	WebM	VP9 (Profile 0, profile 2 supported)	3840 x 2160	60	50	Vorbis
		AV1	3840 x 2160	60	40	
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6

Other restrictions

- Codecs may not function properly if there is a problem with the content.
- Video content does not play or does not play correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.
- If the Index Table is has an error, the Seek (Jump) function will not work.
- When playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with the TV.
- HEVC codec is only available in MKV / MP4 / TS containers.
- The MVC codec is supported partly.

Video decoders

- H.264 UHD is supported up to Level 5.1 and H.264 FHD is supported up to Level 4.1. (TV does not support FMO / ASO / RS)
- HEVC UHD is supported up to Level 5.1, and HEVC FHD is supported up to Level 4.1.
- VC1 AP L4 is not supported.
- GMC 2 or above is not supported.

Audio decoders

- WMA is supported up to 10 Pro 5.1 channels, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital+ is supported for up to 5.1 channels.
- The supported sample rates are 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, and 48 KHz, and differ with the codec.

Supported video codecs (T5 series or lower)

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio codecs	
*.avi *.mkv *.asf		H.264 BP/MP/HP HEVC (H.265 - Main, Main10)		60	20		
*.wmv	AVI	Motion JPEG MVC		30		Dolby Digital	
*.mov *.3gp		MPEG4 SP/ASP Window Media Video v9 (VC1)	60	60		LPCM ADPCM(IMA, MS) AAC HE-AAC	
*.vro *.mpg	3GP MOV	MPEG2 MPEG1 Microsoft MPEG-4 v1,	1020 1000				
*.mpeg *.ts *.tp	FLV VRO VOB	VRO	v2, v3 Window Media Video v7 (WMV1), v8 (WMV2)	1920 x 1080		20	WMA Dolby Digital+ MPEG(MP3)
*.trp *.flv	PS TS	H.263 Sorrenson		30		G.711(A-Law, μ- Law)	
*.vob *.svi *.m2ts *.mts	SVAF	VP6				OPUS	
*.webm	WebM	VP8	1920 x 1080	60	20	Vorbis	
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6	

Other restrictions

- Codecs may not function properly if there is a problem with the content.
- Video content does not play or does not play correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.
- If the Index Table is has an error, the Seek (Jump) function will not work.
- When playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with the TV.
- HEVC codec is only available in MKV / MP4 / TS containers.
- The MVC codec is supported partly.

Video decoders

- H.264 is supported up to Level 4.1. (TV does not support FMO / ASO / RS)
- VC1 AP L4 is not supported.
- GMC 2 or above is not supported.

Audio decoders

- WMA is supported up to 10 Pro 5.1 channels, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital+ is supported for up to 5.1 channels.
- The supported sample rates are 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, and 48 KHz, and differ with the codec.

Read After Installing the TV

Read this information after installing the TV.

Picture sizes and input signals

The Picture Size is applied to the current source. The applied Picture Size will remain in effect whenever you select that source unless you change them.

Input signal	Picture size
Component	16:9 Standard, Custom, 4:3
Digital channel (720p)	16:9 Standard, Custom, 4:3
Digital channel (1080i, 1080p)	16:9 Standard, Custom, 4:3
* Digital channel (3840 x 2160p @ 24/30 Hz)	16:9 Standard, Custom
* Digital channel (3840 x 2160p @ 50/60 Hz)	16:9 Standard, Custom
* Digital channel (4096 x 2160p)	16:9 Standard, Custom
HDMI (720p)	16:9 Standard, Custom, 4:3
* HDMI (1080i, 1080p)	16:9 Standard, Custom, 4:3
* HDMI (3840 x 2160p)	16:9 Standard, Custom
* HDMI (4096 x 2160p)	16:9 Standard, Custom
USB (720p)	16:9 Standard, Custom, 4:3
USB (1080i/p @ 60 Hz)	16:9 Standard, Custom, 4:3
* USB (3840 x 2160p @ 24/30 Hz)	16:9 Standard, Custom
* USB (3840 x 2160p @ 60 Hz) * USB (4096 x 2160p @ 24/30/60 Hz)	16:9 Standard, Custom

^{*:} This input signal is supported by TU7 series.

Installing an anti-theft lock

An anti-theft lock is a physical device that can be used to protect the TV against theft. Look for the lock slot on the back of the TV. The slot has a 🖻 icon next to it. To use the lock, wrap the lock cable around an object that is too heavy to carry and then thread it through the TV's lock slot. The lock is sold separately. The method of using an anti-theft lock may differ for each model. Refer to the lock's user manual for more information.

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

The input ports for external devices may differ depending on the model and geographical area.

Supported Resolutions for UHD Input Signals

Check the supported resolution for UHD input signals.

• Resolution: 3840 x 2160p, 4096 x 2160p

This function is supported by TU7 series.

If Input Signal Plus is set to Off

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	-	-	-	0

If Input Signal Plus is set to On

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	0	0	0	0
	10 bit	-	_	0	0
	12 bit	-	-	0	0

Read Before Connecting a Computer (Supported Resolutions)

Check the resolutions supported for PC input signals.

When you connect your TV to a computer, set the computer's video card to one of the standard resolutions listed in the tables below or on the next pages. The TV will automatically adjust to the resolution you choose. Note that the optimal and recommended resolutions are 3840 x 2160 at 60 Hz (TU7 series) and 1920 x 1080 at 60 Hz (T5 series or lower). Choosing a resolution not included in the tables can result in a blank screen or just the remote control sensor turning on. Refer to the user manual of your graphics card for compatible resolutions.

The native resolution is 3840 x 2160 at 60 Hz with the Input Signal Plus set to On. The native resolution is 3840 x 2160 at 30 Hz with the Input Signal Plus set to Off.

IBM

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
720 x 400	70 Hz	31.469	70.087	28.322	-/+

MAC

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
640 x 480	67 Hz	35.000	66.667	30.240	-/-
832 x 624	75 Hz	49.726	74.551	57.284	-/-
1152 x 870	75 Hz	68.681	75.062	100.000	-/-

VESA DMT

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
640 x 480	60 Hz	31.469	59.940	25.175	-/-
640 x 480	72 Hz	37.861	72.809	31.500	-/-
640 x 480	75 Hz	37.500	75.000	31.500	-/-
800 x 600	60 Hz	37.879	60.317	40.000	+/+
800 x 600	72 Hz	48.077	72.188	50.000	+/+
800 x 600	75 Hz	46.875	75.000	49.500	+/+
1024 x 768	60 Hz	48.363	60.004	65.000	-/-
1024 x 768	70 Hz	56.476	70.069	75.000	-/-
1024 x 768	75 Hz	60.023	75.029	78.750	+/+
1152 x 864	75 Hz	67.500	75.000	108.000	+/+
1280 x 720	60 Hz	45.000	60.000	74.250	+/+
1280 x 800	60 Hz	49.702	59.810	83.500	-/+
1280 x 1024	60 Hz	63.981	60.020	108.000	+/+
1280 x 1024	75 Hz	79.976	75.025	135.000	+/+
1440 x 900	60 Hz	55.935	59.887	106.500	-/+
1600 x 900	60 Hz	60.000	60.000	108.000	+/+
1680 x 1050	60 Hz	65.290	59.954	146.250	-/+
1920 x 1080	60 Hz	67.500	60.000	148.500	+/+

VESA CVT

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

The resolution may not be supported depending on the model.

CTA-861

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
*1920 x 1080	100 Hz	112.500	100.000	297.000	+/+
*1920 x 1080	120 Hz	135.000	120.003	297.000	+/+
3840 x 2160	30 Hz	67.500	30.000	297.000	-/-
*3840 x 2160	60 Hz	135.000	60.000	594.000	-/-
*3840 x 2160	100 Hz	225.000	100.000	1188.000	+/+
*3840 x 2160	120 Hz	270.000	120.000	1188.000	+/+
4096 x 2160	24 Hz	54.000	24.000	297.000	+/+
4096 x 2160	25 Hz	56.250	25.000	297.000	+/+
4096 x 2160	30 Hz	67.500	30.000	297.000	+/+
*4096 x 2160	50 Hz	112.500	50.000	594.000	+/+
*4096 x 2160	60 Hz	135.000	60.000	594.000	+/+
*4096 x 2160	100 Hz	225.000	100.000	1188.000	+/+
*4096 x 2160	120 Hz	270.000	120.000	1188.000	+/+
*7680 x 4320	24 Hz	108.000	24.000	1188.000	+/+
*7680 x 4320	30 Hz	132.000	30.000	1188.000	+/+
*7680 x 4320	50 Hz	220.000	50.000	2376.000	+/+
*7680 x 4320	60 Hz	264.000	60.000	2376.000	+/+

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

Supported Resolutions for Video Signals

Check the resolutions supported for video signals.

CTA-861

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
720 (1440) x 576i	50 Hz	15.625	50.000	27.000	-/-
720 (1440) x 480i	60 Hz	15.734	59.940	27.000	-/-
720 x 576	50 Hz	31.250	50.000	27.000	-/-
720 x 480	60 Hz	31.469	59.940	27.000	-/-
1280 x 720	50 Hz	37.500	50.000	74.250	+/+
1280 x 720	60 Hz	45.000	60.000	74.250	+/+
1920 x 1080i	50 Hz	28.125	50.000	74.250	+/+
1920 x 1080i	60 Hz	33.750	60.000	74.250	+/+
1920 x 1080	24 Hz	27.000	24.000	74.250	+/+
1920 x 1080	25 Hz	28.125	25.000	74.250	+/+
1920 x 1080	30 Hz	33.750	30.000	74.250	+/+
1920 x 1080	50 Hz	56.250	50.000	148.500	+/+
*1920 x 1080	100 Hz	112.500	100.000	297.000	+/+
*1920 x 1080	120 Hz	135.000	120.003	297.000	+/+
1920 x 1080	60 Hz	67.500	60.000	148.500	+/+
3840 x 2160	24 Hz	54.000	24.000	297.000	+/+
3840 x 2160	25 Hz	56.250	25.000	297.000	+/+
3840 x 2160	30 Hz	67.500	30.000	297.000	+/+
*3840 x 2160	50 Hz	112.500	50.000	594.000	+/+
*3840 x 2160	60 Hz	135.000	60.000	594.000	+/+
*3840 x 2160	100 Hz	225.000	100.000	1188.000	+/+
*3840 x 2160	120 Hz	270.000	120.000	1188.000	+/+

Resolution (Dots x lines)	Display format	Horizontal frequency (KHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity (horizontal / vertical)
4096 x 2160	24 Hz	54.000	24.000	297.000	+/+
4096 x 2160	25 Hz	56.250	25.000	297.000	+/+
4096 x 2160	30 Hz	67.500	30.000	297.000	+/+
*4096 x 2160	50 Hz	112.500	50.000	594.000	+/+
*4096 x 2160	60 Hz	135.000	60.000	594.000	+/+
*4096 x 2160	100 Hz	225.000	100.000	1188.000	+/+
*4096 x 2160	120 Hz	270.000	120.000	1188.000	+/+

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

VESA CVT

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

The resolution may not be supported depending on the model.

Read Before Using Bluetooth Devices

Read this information before using a Bluetooth device.

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

Restrictions on using Bluetooth

- You can't use Bluetooth devices and the Wi-Fi Speaker Surround Setup feature simultaneously.
- Compatibility issues may occur, depending on the Bluetooth device. (A Mobile exclusive headphone may not be available, depending on the environment.)
- Lip-sync errors may occur.
- The TV and Bluetooth device may disconnect, depending on the distance between them.
- A Bluetooth device may hum or malfunction:
 - When a part of your body is in contact with the receiving/transmitting system of the Bluetooth device or the TV.
 - When the device is subject to electrical variation from obstructions caused by a wall, corner or office partitioning.
 - When the device is exposed to electrical interference from same frequency-band devices including medical equipment, microwave ovens and wireless LANs.
- If the problem persists, we recommend you use a wired connection.
 - DIGITAL AUDIO OUT (OPTICAL) port
 - HDMI (eARC) port
 - MDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.

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

Troubleshooting

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

Picture Issues

When the TV has trouble with the picture, these steps may help resolve the problem.

Testing the picture



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

The problem	Try this!
	If your TV is flickering or dimming sporadically, you may need to disable some of the energy efficiency features.
	Disable Ambient Light Detection, Energy Saving Mode, Motion Lighting or Contrast Enhancer.
	Settings > General > Eco Solution > Ambient Light Detection
Flickering and Dimming	Settings > General > Eco Solution > Energy Saving Mode
	Settings > General > Eco Solution > Motion Lighting
	Settings > Picture > Expert Settings > Contrast Enhancer
	Run Picture Test. When the tested image quality is normal, check the signal of the connected device.
	If the colour on your TV screen is not correct or the black and white colours are off, run Picture Test.
	Settings > Support > Device Care > Self Diagnosis > Picture Test
Component Connections and Screen Colour	If the test results indicate that the problem is not caused by the TV, do the following:
	When using the component cable, confirm that the green (Y), blue (Pb) and red (Pr) jacks are plugged into their proper connectors.
	For more information about how to connect an external device, run Connection Guide.
	Source > Connection Guide Source > Connection Guide

The problem	Try this!
Screen Brightness	If the colours on your TV are correct but just a little too dark or bright, try adjusting the following settings first.
	• (a) > (b) Settings > Picture > Expert Settings > Colour
	• ⑥ 〉 戀 Settings 〉 Picture 〉 Expert Settings 〉 Tint (G/R)
	If you notice blurring or juddering on the screen, use the Picture Clarity Settings function to resolve the issue.
Blurring or Juddering	Settings > Picture > Expert Settings > Picture Clarity Settings
	This function is supported by TU7 series.
	If your TV appears to turn off by itself, try disabling some of the TV's energy efficiency functions.
	See if Sleep Timer has been enabled. The Sleep Timer automatically turns the TV off after a specified period of time.
Unwanted Powering Off	Settings > General > System Manager > Time > Sleep Timer
	If the Sleep Timer has not been enabled, see if Auto Power Off or Off Timer has been enabled and disable it.
	If you are having problems powering on your TV, there are a number of things to check before calling the service department.
Problems Powering On	Confirm that the TV's power cable is connected correctly at both ends and that the remote control is operating normally.
	Make sure that the antenna cable or cable TV cable is firmly connected.
	If you have a cable box or satellite box, confirm that it is plugged in and turned on.
	If your TV is not connected to a cable box or satellite box, run Auto Tuning.
Unable to find a Channel	
	The Auto Tuning Settings may not appear depending on the model or geographical area.
	When using a broadcast receiver such as set-top box and IPTV, check the connection to the TV.
	When the symptom persists, contact your service provider.

The problem	Try this!
	Store displays are tuned to a digital UHD channel or HD channel.
	Change the output resolution of your devices such as digital broadcast receiver, IPTV and set-top box to UHD or HD.
	Be sure to use an HDMI cable to enjoy high quality videos.
	Source > Connection Guide > Video Device > HDMI
The TV image does not look as good as it did in the	To connect the TV with your PC, make sure that your PC's graphic card supports UHD resolutions.
store.	For more information about the supported UHD resolutions, refer to "Supported Resolutions for UHD Input Signals".
	Make sure that the set-top box or cable box supports the content or broadcast for UHD and set the resolution. For more information, contact your service provider.
	When using a Samsung TV Plus channel, check the network connection. When the network speed is slow, the app may not work or the image quality may be poor.
	The compression of video content may cause picture distortions, especially in fast moving pictures from sports programmes and action movies.
The picture is distorted.	If the signal reception is weak or poor, screen distortion may be visible but it is not a malfunction.
	Mobile phones used close to the TV (within 1 m) may cause noise on analogue and digital channels.
The colour is wrong or	If you're using a Component connection, make sure that the Component cables are connected to the correct jacks.
missing.	Incorrect or loose connections may cause colour problems or a blank screen.
	Go to Picture and then adjust the Picture Mode, Brightness, Sharpness and Colour settings.
	Settings > Picture > Expert Settings > Brightness
The colour is poor or the	
picture is not bright	
enough.	See if Energy Saving Mode has been enabled.
	Try resetting the picture.
	• ⑥ > 您 Settings > Picture > Expert Settings > Reset Picture
There is a dotted line on the	Change Picture Size Settings to 16:9 Standard.
edge of the screen.	Settings > Picture > Picture Size Settings > Picture Size > 16:9 Standard

The problem	Try this!
	Use a composite cable when you connect AV equipment to the TV.
The picture is black and white.	If you are using the composite cable, connect the video cable (Yellow) to the VIDEO (Yellow / Green) input port.
Winter	The COMPONENT IN port may not be supported depending on the model or geographical area.
	HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content.
The picture won't display in full screen.	Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV.
	Adjust the picture size options on your external device or set the TV to full screen.
The Subtitle function in the TV menu is deactivated.	When an external device is connected with an HDMI or Component cable, the Subtitle function is unavailable. Adjust the subtitle setting on the external device.
Subtitles appear on the TV	Turn off the Subtitle function in Subtitle Settings.
screen.	Settings > General > Accessibility > Subtitle Settings > Subtitle
The HDR of the connected external device turns off.	Expand the reception range of the corresponding HDMI input signal in Input Signal Plus. ■ ② Settings > General > External Device Manager > Input Signal Plus

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

Sound and Noise Issues

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

Testing the sound

If the TV plays the Sound Test melody without distortion, there may be a problem with an external device or the broadcast signal's strength.

The problem	Try this!
How can I connect an audio device to the TV?	The connection method may differ depending on the audio device such as HDMI (eARC), Optical, Bluetooth and Wi-Fi.
	HDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.
	For more information about how to connect an audio device, run Connection Guide.
	Source > Connection Guide > Audio Device
There is no sound or the sound is	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.
too low at maximum volume.	Check the cable connection between an external device and the TV, and then try cable connection again.
	Set Sound Output to TV Speaker.
	Settings > Sound > Sound Output
	If you are using an external device, check the device's audio output option.
	For example, you may need to change your cable box's audio option to HDMI if the box connected to your TV is using an HDMI cable.
The picture is good but there is no sound.	To listen to computer sound, connect an external speaker to the computer's audio output connector.
	If your TV has a headphone jack, make sure there is nothing plugged into it.
	Reboot the connected device by disconnecting and then reconnecting the device's power cable.
	With a set-top box or cable box, check the cable connection and reboot the external device. When the symptom persists, contact your service provider.
	Check whether Digital Output Audio Format is set to Pass-through.
	If you select the Pass-through option to use an AV receiver that does not support Dolby Digital+, no sound is output with Dolby Digital+ content.
No sound is heard.	It is recommended to set Digital Output Audio Format to Auto when the connected receiver supports only the limited audio formats.

The problem	Try this!
	Run Sound Test.
The speakers are making an odd	Make sure that the audio cable is connected to the correct audio output connector on the external device.
sound.	For antenna or cable connections, check the Signal Information. A low signal level may cause sound distortions.
	The sound may frequently be interrupted when a Bluetooth speaker is used. Make sure that the Bluetooth speaker and the wireless access point are on a straight line and the Bluetooth speaker is placed as close as possible to the TV.
	To minimise interruptions, we recommend a wireless access point that uses a 5 GHz frequency.
The sound is interrupted.	When the symptom persists, it is recommended to use wired connection such as HDMI-eARC and Optical.
	When the symptom persists, it is recommended to use wired connection such as HDMI ARC and Optical.
	HDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.
Whenever a function is used on the TV or the channel is changed, the TV voices the activity. The TV explains in voice-over the video scenes displayed on the	Turn off the Voice Guide function in Voice Guide Settings. • 命 > 您 Settings > General > Accessibility > Voice Guide Settings > Voice Guide
screen.	
The TV audio is not being played through the AV receiver.	 Check the A/V receiver's power supply and its settings. When connecting the optical cable between the TV and A/V receiver, make sure that the sound output is set Optical on your TV. In case of HDMI-eARC connection, make sure that it is connected to the eARC dedicated HDMI port on your TV. However, the eARC can be used only when the A/V receiver supports the eARC feature.
	# HDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.

The problem	Try this!
	Change to an appropriate sound mode.
The sound is not heard clearly.	
	This function may not be supported depending on the model.
	Check the cable connection between the TV and the external device.
The volume of the external device cannot be adjusted.	When connecting an external speaker such as home theatre via HDMI, make sure it is connected to the HDMI (eARC) port on the TV. Make sure that the ♠ > ♦ Settings > General > External Device Manager > Anynet+ (HDMI-CEC) is active on your TV.
	HDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.
I want to turn off and on the TV	When you connect the Samsung Soundbar to the TV via Bluetooth, the power turns off and on together. It may not be supported depending on the Samsung Soundbar model.
and audio device at the same time.	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.
	HDMI (ARC) is supported by some models. Check the HDMI port name of the purchased product's model.

Channel and Broadcast Issues

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

The problem	Try this!
"Weak or No Signal" displayed in TV mode or cannot find channel.	Make sure that the external device is connected securely and turned on. Move to Sources to switch to other input sources. •
The TV is not receiving all channels.	Confirm that the coaxial cable is securely connected to the TV. Run Reset or Auto Tuning. • ♠ > ♦ Settings > General > Reset • ♠ > ♦ Settings > Broadcasting > (Auto Tuning Settings) > Auto Tuning Tuning The Auto Tuning Settings may not appear depending on the model or geographical area
The subtitles are not provided on a digital channel. I want to turn off the subtitles.	When watching channels with the antenna cable connected, run Subtitle Settings. •
Broadcasting is deactivated.	Broadcasting is only available when Source is set to TV. Broadcasting cannot be accessed while you watch TV using a cable box or satellite box.

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.
	If you are using an HDMI connection, check the audio output setting on your PC.
The video is OK but there is no audio.	If you are using a DVI to HDMI cable, a separate audio cable is required.
The video is on suc there is no addic.	To listen to the computer sound, connect external speakers to the audio output connection of the computer.
	To wirelessly connect the TV to your PC, read the instructions at PC > Screen Sharing (Wireless) in Connection Guide, and then try to connect.
	•
	Confirm that the TV and your PC are connected to the same network.
I want to connect to a PC and mobile device via screen mirroring.	To wirelessly connect the TV to your mobile device, read the instructions at Smartphone > Screen Sharing (Smart View) in Connection Guide, and then try to connect.
	•
	If the TV has difficulties connecting to your PC or mobile device due to surrounding radio interferences, change the frequency of the wireless access band, and then try to connect.
	For more information about how to connect an external device, run Connection Guide.
	Make sure that the external device is connected securely and turned on. Move to Sources to switch to other input sources.
No screen appears when connecting the	•
TV to an external device.	Using HDMI Troubleshooting, you can check the connection to HDMI cable and external devices (takes approximately 2 minutes).
	•
	When using a set-top box or cable box, check the broadcast signals or the network that is connected to the external device.

The problem	Try this!
The PC screen does not appear or it flickers.	When the PC screen does not appear or the PC is not recognised, check the power supply of the PC, and then reconnect the HDMI cable between the PC and TV. When the symptom persists, check that the PC is in Sleep mode. When the set resolution is not matched, the screen may flicker. For the PC supported resolution, see 'Read Before Connecting a Computer (Supported Resolutions).'

Network Issues

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

♠ > Settings > Support > Device Care > Self Diagnosis > Smart Hub Connection Test (Try Now)
(Try Now)

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

The problem	Try this!
	Make sure that no items that can generate electromagnetic interferences are placed between the TV and the wireless/wired access point.
	Check if the access point is turned on. If it is on, turn it off, wait 1 or 2 minutes, and then turn it on.
Wireless network connection failed.	Enter the correct password if required.
Unable to connect to a wireless access point.	If the wireless connection fails, connect the TV to the access point via a LAN cable.
	If the TV can connect to the Internet normally via the wired connection, there might be a problem with the access point. In this case, try using a different access point.
Wired network connection failed.	Check if the LAN cable is plugged in on both ends. If it is plugged in, check if the access point is turned on. If it is on, turn it off, wait 1 or 2 minutes, and then turn it on.
	Check if the LAN cable is plugged in on both ends. If it is plugged in, check if the access point is turned on.
Auto IP configuration failed.	If the access point is on, turn it off, wait 1 or 2 minutes, and then turn it on.
Unable to connect to the network.	Disconnect and then reconnect the power cable of the TV or press and hold the power button for 3 seconds.
Connected to a local network, but not to the Internet.	 Check if the Internet LAN cable is connected to the access point's external LAN port. Check the DNS setting in IP Settings. 命 > 錄 Settings > General > Network > Network Status > IP Settings
Network setup is completed, but unable	-
to connect to the Internet.	If the problem persists, contact your Internet service provider.

Wired networks are not supported by some models.

Anynet+ (HDMI-CEC) Issues

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

The problem	Try this!
What is Anynet+?	You can use the TV's remote control to control external devices that support Anynet+ (HDMI-CEC) and that are connected to the TV via an HDMI cable. For example, if a connected external device supports Anynet+, you can have the connected device turn on or off when you turn the TV on or off.
Anynet+ does not work.	Confirm that the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. Check if the power cord of the Anynet+ device is properly connected. Check the cable connections of the Anynet+ device. Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been set to On. •
I want to start Anynet+. I also want the connected devices to turn on when the TV is turned on.	Move the focus to the Anynet+ device at ♠ > ➤ Source, press the up directional button to move to Anynet+ (HDMI-CEC), and then press the Select button. Check if the Anynet+ device is properly connected to the TV, and then select Anynet+ (HDMI-CEC) menu to see if Anynet+ (HDMI-CEC) is set to On. • ♠ > ♦ Settings > General > External Device Manager > Anynet+ (HDMI-CEC)
I want to exit Anynet+. It is inconvenient to turn on other devices because the TV also turns on. It is inconvenient because the connected devices (e.g. set-top box) turn off together.	To turn off the Anynet+ function of a device connected to the TV, turn off the Anynet+ (HDMI-CEC) function of the device. •

The problem	Try this!
The message "Connecting to Anynet+ device" or "Disconnecting from Anynet+ device" appears on the screen.	You cannot use the remote control when the TV is configuring Anynet+ or switching to the TV viewing screen. Use the remote control after the TV has completed the Anynet+ configuration or has switched to the TV viewing screen.
The Anynet+ device won't play.	You cannot use the play function when Reset is in progress.
The connected device is not displayed.	Check whether the device supports Anynet+. Anynet+ devices must be connected to the TV using an HDMI cable. Make sure the device is connected to your TV with an HDMI cable. Some HDMI cables may not support Anynet+.
	Check whether the HDMI cable is properly connected. Go to Anynet+ (HDMI-CEC) and see if Anynet+ (HDMI-CEC) has been set to On.
	Scan for Anynet+ devices again. If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please scan for the device again.

Remote Control Issues

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

The problem	Try this!
The remote control does not work.	The connection between the remote control and the TV may be lost. Also, if the remote control is not working or slow, the batteries might be low or dead. If this is the case, replace the batteries. Alkaline batteries are recommended for longer battery life.
External devices cannot be operated with the TV remote control.	Check the cable connection between the TV and external devices. When the symptom persists, set it manually in > > Source > Universal Remote Setup.

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

Media Files

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

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

Other issues

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

The problem	Try this!
	Watching TV for an extended period of time causes the panel to generate heat.
	The heat from the panel is dissipated through internal vents running along the top of the TV.
The TV is hot.	The bottom, however, may feel hot to the touch after extended use.
	Children watching TV need constant adult supervision to prevent them from touching the TV.
	This heat, however, is not a defect and does not affect the TV's functionality.
The TV smells of plastic.	This smell is normal and will dissipate over time.
The settings are lost after 5 minutes or	If Usage Mode is set to Retail Mode , the TV's audio and video settings are automatically reset every 5 minutes.
every time the TV is turned off.	Change Usage Mode to Home Mode.
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 available only when an external device is connected with an HDMI or Component cable.
PIP is not available.	Note that the function is unavailable when Smart Hub is active.
	This function may not be supported depending on the model or geographical area.
A POP (TV's internal banner ad) appears	Change Usage Mode to Home Mode.
on the screen.	• 🍙 > 🕸 Settings > General > System Manager > Usage Mode
The TV is making a popping noise.	The expansion and contraction of the TV's outer casing may cause a popping noise.
	This does not indicate a product malfunction.
	The TV is safe to use.

The problem	Try this!
The TV is making a humming noise.	Your TV utilises high-speed switching circuits and high levels of electrical current. Depending on the TV's brightness level, the TV may seem slightly noisier than a conventional TV.
	Your TV has undergone strict quality control procedures that meet our demanding performance and reliability requirements.
	Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund.
The software update over the Internet has failed.	Check the network connection status. •
The TV narrates the screen events in voice-over.	To turn off Voice Guide, move the focus from Accessibility Shortcuts to Voice Guide and then press the Select button. You can turn on or off Voice Guide. To run Accessibility Shortcuts, see the following: • Press the AD/SUBT. button on the standard remote control or press and hold the MUTE button. • ♠ > ♦ Settings > General > Accessibility > Voice Guide Settings > Voice Guide

Diagnosing TV operational issues

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

♠ > ♦ Settings > Support > Device Care > Self Diagnosis (ry Now)

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

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

The problem	Try this!
Cannot select Signal Information in Self Diagnosis.	Verify that the current channel is a digital channel. Signal Information is only available for digital channels. • ♠ > ♦ Settings > Support > Device Care > Self Diagnosis > Signal Information
Reset Smart Hub	Resets all Smart Hub settings to their factory defaults and deletes all information related to Samsung accounts, linked service accounts, Smart Hub service agreements and Smart Hub applications. •
Reset picture	Resets current picture settings to the default settings. • 🚳 > 🕸 Settings > Picture > Expert Settings > Reset Picture
Reset sound	Resets current sound settings to the default settings. • 🚳 > 🕸 Settings > Sound > Expert Settings > Reset Sound

Getting Support

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

Getting support through Remote Management

♠ >

Settings > Support > Remote Management (ry Now)

After consenting to our service agreement, you can use Remote Management to access Remote Support and have a Samsung service technician diagnose your TV, correct problems and update your TV's software remotely via the web. You can also turn Remote Management on and off.

This function requires an Internet connection.

Finding the contact information for service

You can view the address of the Samsung website, the call centre phone number, your TV's model number, your TV's software version, Open Source License and other information you may need to get service support from a Samsung call agent or the Samsung website.

- You can also view information by scanning the QR code of your TV.
- You can also start this function by pressing and holding the ► (Play) button for 5 or more seconds. Continue holding the button until the customer information pop-up window appears.

Requesting service

You can request service when you encounter a problem with the TV. Select the item matching the problem that you encountered, enter the required item, move the focus to Next, and then press the Select button. Select Request Now > Send or Schedule Appointment > Request > Send. Your service request will be registered. The Samsung Contact Centre will contact you to set up or confirm your service appointment.

- You must agree to the terms and conditions for the service request.
- This function may not be supported depending on the geographical area.
- This function requires an Internet connection.

FAQ

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

The TV Screen does not Display Properly

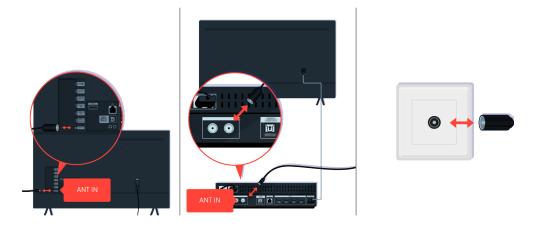
When the TV screen is bad, let's find out how to simply check whether the cause is caused by the product or the external environment by broadcasting signals and cables.

When the TV screen does not display properly

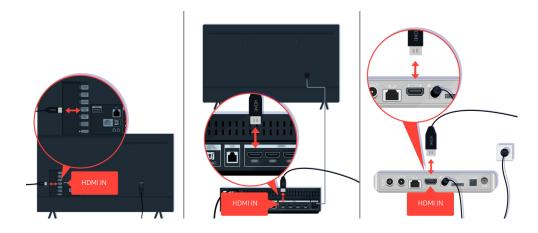
The TV's colour, design, accessories (including the remote control) and features may differ depending on the model or geographical area.



Check the antenna and input cable connections.



Check the antenna and input cable connections.



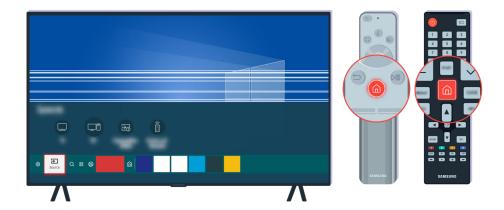
Check the antenna and HDMI cable connections.



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





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.

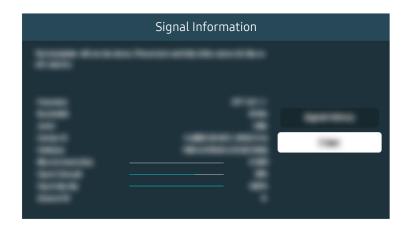


If the problem disappears during the test, check your TV signal. On the remote control, press the 🚳 button.



Select (a) > (a) Settings > Support > Device Care > Self Diagnosis > Signal Information to check the signal strength.





Check whether the signal strength is too weak or not.

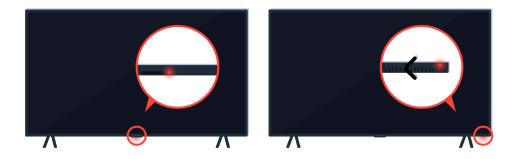
Related menu path

The TV does not Turn On

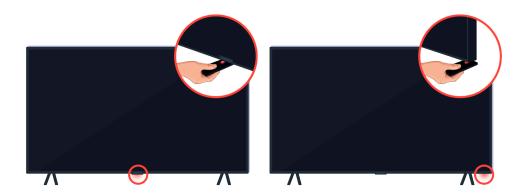
If there is no screen on the TV, it often occurs when the contact point of the power cable is loose or the peripheral device is turned off.

When your TV does not turn on

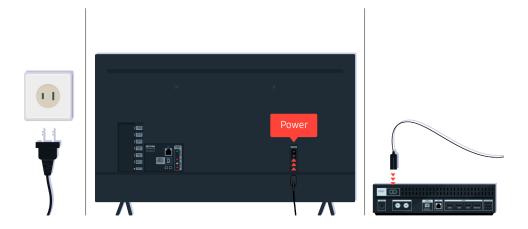
The TV's colour, design, accessories (including the remote control) and features may differ depending on the model or geographical area.



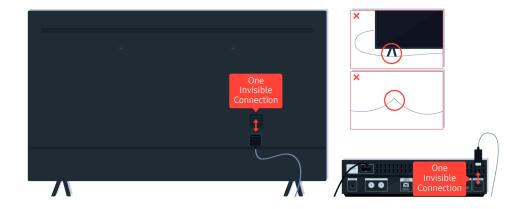
If your TV does not turn on, check whether the remote control sensor is on.



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



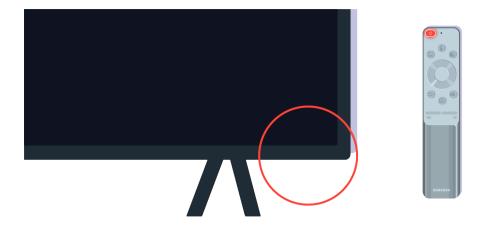
If the remote control sensor is not turned on, unplug the power cable and plug it back in.



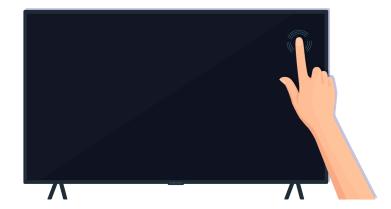
Disconnect and reconnect the One Invisible Connection cable between the TV and the One Connect (OC) Box. Make sure that the One Invisible Connection cable is not pinched or bent sharply.



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.



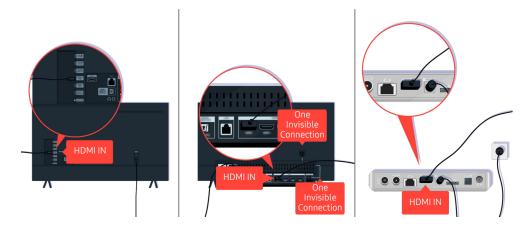
If the remote control sensor turns off when you press the power button, your TV is correctly connected to the power supply.



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.



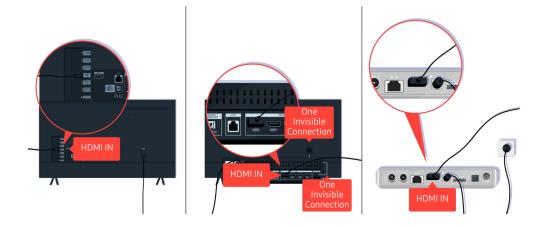
Make sure that the external device is turned on.



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



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

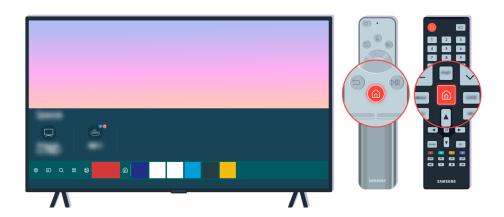


Check the connection of the HDMI cable to your TV or One Connect Box.



Make sure that the cables between your TV and the external devices are properly connected.

The COMPONENT IN port may not be supported depending on the model or geographical area.



Also make sure that the correct source is selected on the Home Screen (\bigcirc > \bigcirc 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

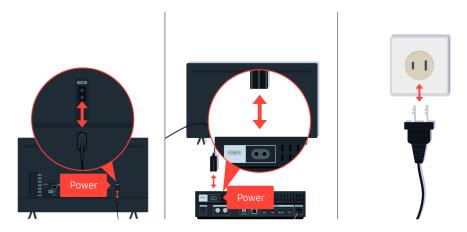
No TV sound from the sound bar, or distorted TV picture are often caused by loose cable connections.

When the TV does not connect with an external device properly

The TV's colour, design, accessories (including the remote control) and features may differ depending on the model or geographical area.



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.

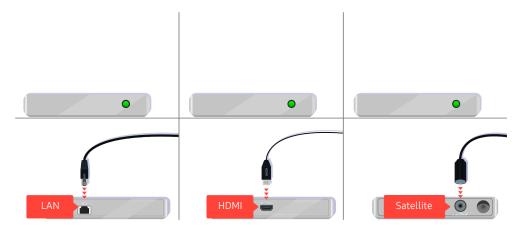


If a component cable is used, make sure that the coloured connectors are connected to the matching connectors on the external device and the TV.

The COMPONENT IN port may not be supported depending on the model or geographical area.



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.

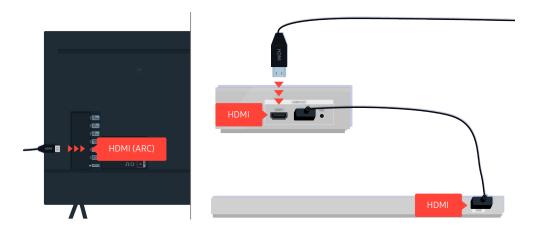


If the problem persists and if your TV uses the One Invisible Connection, disconnect and reconnect the One Invisible Connection to the TV and the One Connect (OC) Box. Ensure that the One Invisible Connection is not pinched or bent sharply.



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

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



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 (ARC) port on your TV.

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

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

The TV's colour, design, accessories (including the remote control) and features may differ depending on the model or geographical area.



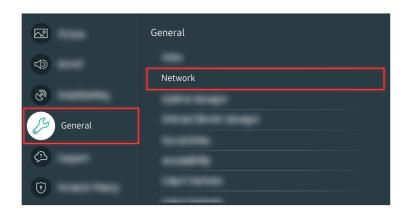
If your TV is not connected to the internet, check the network and the status of your access point.



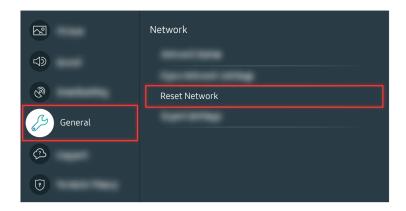
On the remote control, press the **a** button and move to **Settings** using the directional button.



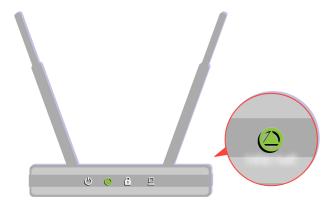
 $\mathsf{Select} \ \textbf{\textcircled{m}} \ > \ \texttt{\textcircled{8}} \ \mathsf{Settings} \ > \ \mathsf{General} \ > \ \mathsf{Network} \ > \ \mathsf{Network} \ \mathsf{Status} \ \mathsf{to} \ \mathsf{check} \ \mathsf{the} \ \mathsf{network} \ \mathsf{status}.$



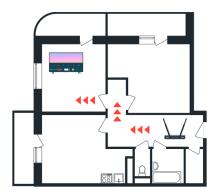
Select > Settings > General > Network > Network Status to check the network status.



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



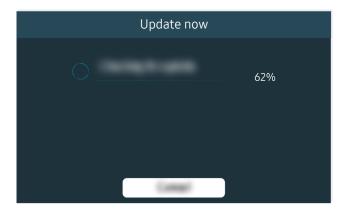
If the same problem continues, select > Settings > General > Network > Network > IP Settings to change to a different DNS server. If a test occurs, cancel it and select IP Settings.



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

⑥ > ፡ Settings > General > Network > Network Status [ry Now]

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

The TV's colour, design, accessories (including the remote control) and features may differ depending on the model or geographical area.



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



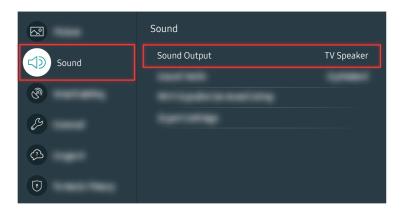
If your TV is connected to an external device, check the volume of the external device.



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



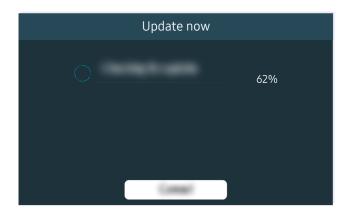
Check the volume on the screen. If a number for the TV volume is not displayed, select > Sound > Sound Output. Then, select TV Speaker.



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



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



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



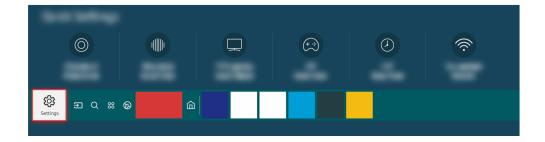
If there is sound but it is not clear, run a diagnostic test. On the remote control, press the \bigcirc button.



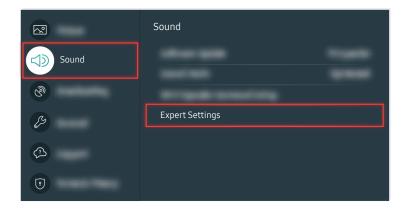
 $\mbox{Go to } \mbox{ \^{o}} > \mbox{ \^{g}} \mbox{ Settings} > \mbox{ Support} > \mbox{ Device Care} > \mbox{ Self Diagnosis} > \mbox{ Sound Test to check the sound}.$



Go to 60 > Settings > Support > Device Care > Self Diagnosis > Sound Test to check the sound.



If the test reveals a problem, select (a) > (3) Settings > Sound > Expert Settings > Reset Sound.

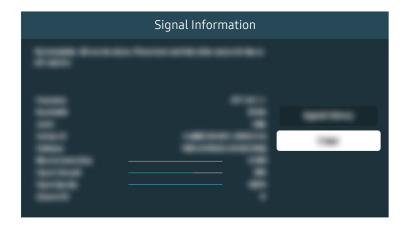




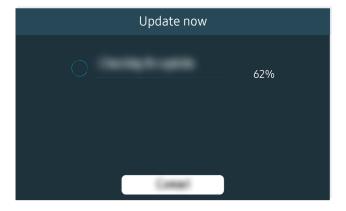
If the test shows no problems, select > Settings > Support > Device Care > Self Diagnosis > Signal Information.



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

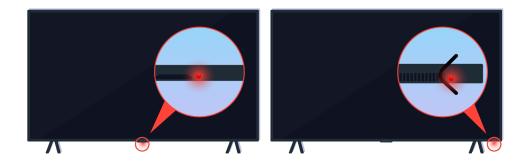
- ⑥ > ፡ Settings > Support > Device Care > Self Diagnosis > Signal Information (ry Now)
- ⑥ > ፟Settings > Support > Software Update (Try Now)

The Remote Control does not Work

If the remote control is not working, the battery may be too low.

When the remote control does not work

The TV's colour, design, accessories (including the remote control) and features may differ depending on the model or geographical area.



Verify that the infrared remote control signal is being transmitted and received.



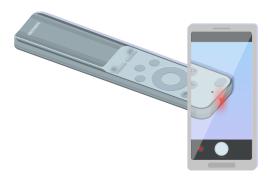
Make sure the remote control sensor on the TV is blinking.



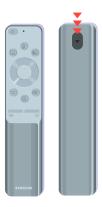
Remove any obstruction covering the receiver on your TV.



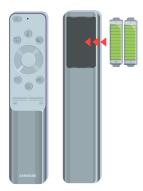
Make sure the remote control works properly.



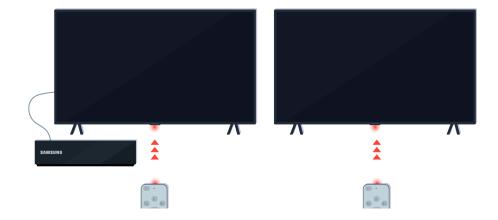
You can check whether the signal is being transmitted by pressing the power button and observing the front tip of the remote control through the camera on your smartphone.



If you don't see any infrared signal, replace the batteries of the remote control.



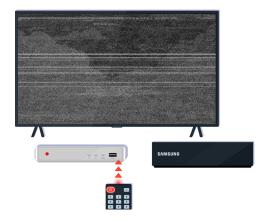
If you don't see any infrared signal, replace the batteries of the remote control.



The remote control will work more effectively if you point it at the remote control sensor.



If the same problem continues, try using the appropriate SAMSUNG remote control for your TV model.



If you use an Multi-Brand Remote (MBR) or universal remote and your remote cannot operate an external device, move the external device closer to the One Connect Box.

Updating the Software

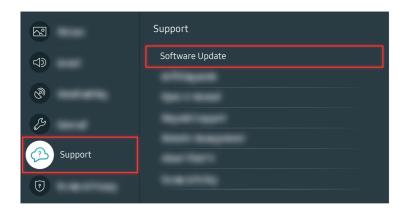
If you want to keep the TV in its best condition or if you have an intermittent issue, please update it to the latest version.

Updating the latest TV's software

The TV's colour, design, accessories (including the remote control) and features may differ depending on the model or geographical area.



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.



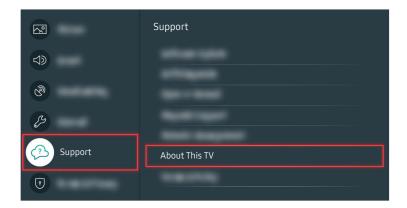
To enable automatic updates, select ♠ > ♦ Settings > Support > Software Update > Auto update.



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



Select > Settings > Support > About This TV and check the model code and software version.



Select (a) > (3) 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.



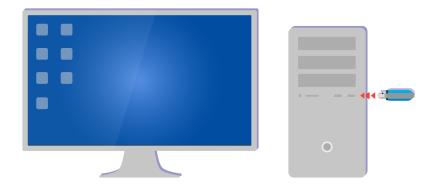
Find your TV model and download the firmware file.



Find your TV model and download the firmware file.



Click Download to download the firmware.



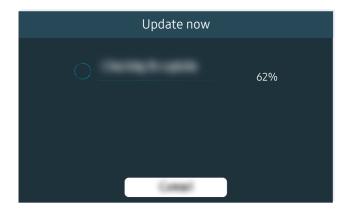
Unzip the downloaded file and store it in your USB drive top folder.



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



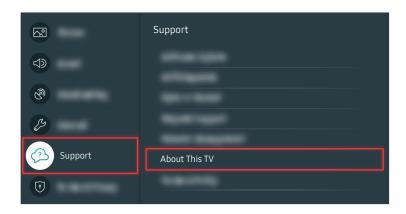
Insert the USB device into the USB slot on the back of your TV or the side of the One Connect Box.



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 (a) > (a) Settings > Support > About This TV and check the new firmware version.



After your TV has been reset, select (a) > (a) Settings > Support > About This TV and check the new firmware version.



After your TV has been reset, select (a) > (a) Settings > Support > About This TV and check the new firmware version.

Related menu path

Accessibility Guidance

Provides a menu and a remote control guide that aid the visually impaired.

Menu Learning Screen

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

Using the accessibility menu

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

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

Running the Accessibility Shortcuts menu

You can turn on or turn off the accessibility functions such as Voice Guide, Picture Off, Audio Description, Subtitle, High Contrast, Enlarge, Learn TV Remote, Menu Learning Screen, Multi-output Audio, Slow Button Repeat, Accessibility Settings, and you can move to the Learn TV Remote and Menu Learning Screen pages.

Remote control

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

When you press and hold the MUTE button while the **Voice Guide** is set to Off or muted, the voice guide reads the **Accessibility Shortcuts** menu.

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

Running the Accessibility menu functions using the General menu

You can also go to the Accessibility menu from the TV settings menu. This provides more options, for example, to change the speed of Voice Guide.

The TV will not verbalize this menu unless Voice Guide is already turned on.

- 1. Press the button.
- 2. Press the left directional button until you reach �� Settings.
- 3. Press the Select button to open the TV's Settings menu.
- 4. Press the down directional button to reach General, and then press the Select button to open this menu.
- 5. Use the directional buttons to go to the Accessibility menu, and then press the Select button to open this menu.
- 6. The menu will appear with Voice Guide Settings as the first selection. Highlight Voice Guide Settings, and then press the Select button.
- 7. A menu appears with the options to change Voice Guide and Volume, Speed, Pitch, TV Background Volume.
- 8. Select the menu using the directional buttons, and then press the Select button.

Learning about the Accessibility menu functions

• Voice Guide Settings

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

• Audio Description Settings

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

Picture Off

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

High Contrast

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

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

Enlarge

You can enlarge important elements on the menu such as the names of programmes.

Learn TV Remote

Learn the names and functions of the buttons on remote control. On this screen, pressing the power button (top left button) will turn off the TV, but when any other button is pressed the TV will say the button name and briefly tell what that button does. This teaching mode helps you to learn the location and operation of the buttons on the remote without affecting normal TV operation. Press the RETURN button twice to exit Learn TV Remote.

• Menu Learning Screen

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

• Subtitle Settings

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

- In programmes that provide broadcast subtitles, the **Position** function is activated so that you can change the subtitle position.
- 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.

Multi-output Audio

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

- When you connect the Bluetooth headphone to the TV, Multi-output Audio is activated.
- This function is supported by TU7 series.

Remote Button Repeat Settings

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

Using the TV with Voice Guide on

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

Changing channel

You can change the channel in three of ways. Every time you change channels, the new channel details will be announced. The ways to change the channel are below.

• Channel List (> Live TV > Channel List)

Press the button. The Smart Hub home screen appears. Use the left or right directional buttons to move to Live TV, press the up directional button to move to the top row, press the directional buttons to move to Channel List, and then press the Select button. When Channel List is displayed, use the up or down directional buttons to move to the desired channel, and then press the Select button.

CH button

Press the up or down of CH button on the remote control to change the channel.

Number button

Press the numeric buttons to enter a channel number.

Changing volume

Press the up or down of VOL button on the remote control to adjust the volume.

Using programme information

When watching TV, press the Select button to view programme information which then appears at the top of the screen. Voice Guide will say programme subtitles or audio descriptions if they are available. To view more detailed programme information, press and hold the Select button. Voice Guide will say more details such as a synopsis of the programme.

Press the left or right directional button to see what you can watch next on the same channel. Press the up or down directional button to move to other channels and see which programmes are currently being broadcast on them.

Press the RETURN button to go back or close the programme details.

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

Using the guide

See an overview of each channel's programme lineup.

When you want to know the programme information for each channel while watching a broadcast programme, press the GUIDE button on the remote control. Use the directional buttons to view the programme information.

> Live TV > Guide

You can see the daily programme schedules for each broadcaster and programme information in the **Guide**. You can select programmes to schedule for viewing.

- This function may not be supported depending on the model or geographical area.
- The information in the **Guide** is for digital channels only. Analogue channels are not supported.
- If the Clock is not set, the Guide is not provided. Set the Clock first. (Settings > General > System Manager > Time > Clock)

If you need to set the clock again, follow the instructions below.

- 1. Press the **a** button to open Smart Hub.
- 2. Press the left directional button to move to \$\press{Settings}\$.
- 3. Press the Select button to open the TV's Settings menu.
- 4. Use the up and down directional buttons to move to the General menu, and then press the Select button.
- 5. Use the up and down directional buttons to move to the **System Manager** menu, and then press the Select button.
- 6. Select the Time menu, and then press the Select button.
- 7. Select the Clock menu, and then press the Select button.
- 8. Select the Clock Mode menu, press the Select button, and then select Auto or Manual.
 - If you select Manual, you can move to the Date or Time menu below to set the time or date.

When you open the **Guide**, a table grid of channels and programmes is displayed. The top row displays **Filter By**: All then the day and times. Each row has a channel name on the left and programmes on that channel on the right.

In the **Guide**, use the up and down directional buttons to move between channels and use the left and right directional buttons to move between programmes at different times within a channel.

You can also use the numeric button to enter a channel number and go to that channel directly. You can use the (Play) button to move to the programme currently broadcasting.

When you move the focus to a programme, you will hear the detailed informations about the selected programme. When you move the focus to a different channel, you will hear the channel name and number and the programme details. If you move to a different day, you will hear the day announced for the first programme you reach on that day. The day is not repeated, so if you are not sure what the day is, you can move forwards and backwards 24 hours and then the day will be announced.

To view a programme on now

In the **Guide**, move to the programme currently broadcasting, and then press the Select button to go to live TV on the selected channel and programme.

Other options in the guide

In the **Guide**, move to a broadcast scheduled programme, and then press the Select button. A pop-up menu listing the functions below appears.

Use the up and down directional buttons to move within this menu, and then press the Select button to choose an item. Press the RETURN button to close the menu and go back to the Guide.

For the programme you are currently watching, press and hold the Select button.

Schedule Viewing

You can schedule the viewing of a broadcast scheduled programme.

Cancel Scheduled Viewing

You can cancel your scheduled viewings.

View Details

You can see the detailed information on the selected programme. The information may differ with the broadcast signal. If the information is not provided with the programme, nothing appears.

Press the Select button on the View Details option. This will open the details pop-up window for that programme which will display a synopsis. The details pop-up window contains detailed information and the OK option. After reading the detailed information, press the Select button on the remote control to close the pop-up window.

Using Schedule Viewing

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

The \bigcirc icon appears next to programmes that have been configured for a schedule viewing.

To set up a schedule viewing, you must first set the TV's clock (Settings > General > System Manager > Time > Clock).

Setting up a schedule viewing

You can set up a schedule viewing on two screens.

The Guide Screen

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

• The Programme Info Screen

Press the Select button while watching the TV. The Programme Info window appears. Select a broadcast scheduled programme by using the left or right directional buttons, and then press the Select button. You can schedule watching the programme by selecting **Schedule Viewing**.

Cancelling a scheduled viewing

You have two ways to cancel a scheduled viewing.

- Cancelling a scheduled viewing from the Guide
 - In the Guide (> Live TV > Guide), move to the programme you want to cancel scheduled viewing, and then press the Select button. Move to Cancel Scheduled Viewing, and then press the Select button. When a pop-up message asking you to cancel the selected scheduled viewing appears, select Yes. The selected scheduled viewing is cancelled and the screen returns to the Guide screen.
- Cancelling a scheduled viewing from Smart Hub
 - 1. Press the button to open Smart Hub, and then press the left or right directional button to move to Live TV. Press the up directional button to move to the top row, and then press the left or right directional button to move to Schedule Manager.
 - 2. Press the Select button to open Schedule Manager.
 - 3. Use the down directional button to move to the list of programmes scheduled to view.
 - 4. Use the right directional button to move to the **Delete** option, and then press the Select button to delete the selected item.
 - This function may not be supported depending on the model or geographical area.

Using the Channel List

See how to list the channels available on your TV.

> Live TV > Channel List

Using Channel List, you can change the channel or check programmes on other digital channels while watching TV.

Press the button. The Smart Hub home screen appears. Use the left or right directional buttons to move to Live TV, press the up directional button to move to the top row, press the right directional button to move to Channel List, and then press the Select button. This shows a list of the channels and the programme currently on. The focus will be on the channel you are currently watching, showing channel name, channel number and programme title.

Use the up and down directional buttons to move within the channel list (or use the CH button to go up and down a page at a time). You can also use the numeric button to enter a channel number and go to that channel directly.

Press the directional button in the Channel List to move to the Category list. Use the up and down directional buttons to move within this list. Press the Select button to choose a category you want from the Category list. The Category list contains All, Samsung TV Plus, Favourites, Channel Type, Sort and Terrestrial, Cable or Satellite. Use the up and down directional buttons to move to a channel you want to view, and then press the Select button.

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

Displays the channels that have been automatically searched.

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

Samsung TV Plus

While the TV is connected to the Internet, you can watch popular programmes or highlights for each theme through a virtual channel at any time. As in a general channel, it provides the daily programme schedules of Samsung TV Plus.

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

Favourites

Displays Favourites 1 to Favourites 5. Use the up and down directional buttons to move between the lists of favourites. Highlight the one you want, and then press the Select button. The channel list will now show only the channels in this list.

Channel Type

Sorts the list so that it includes channels of a selected type. However, **Channel Type** can only be used channels contain the type information.

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

Sort

Sorts the list by Number or by Name.

This option is only available on digital channels and may not always be available.

• Terrestrial, Cable or Satellite

Allows you to choose between Terrestrial, Cable and Satellite.

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

Using Smart Hub

Learn how to open Smart Hub to access apps, games, movies and more.

Smart Hub

After pressing the @ button on your remote control, you can surf the web and download apps with Smart Hub.

- Some Smart Hub services are for pay services.
- To use Smart Hub, the TV must be connected to the Internet.
- Some Smart Hub features may not be supported depending on the service provider, language or geographical area.
- Smart Hub service outages can be caused by disruptions in your Internet service.
- To use Smart Hub, you must agree to the Smart Hub service agreement and the collection and use of personal information. Without giving consent, you cannot use the additional features and services. You can view the entire text of the Terms & Privacy by navigating to > \$\omega\$ 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).

Press the button on your remote. This will bring up a display with 2 rows. Try moving the focus to Live TV or another item on the bottom row. The options on the top row change depending on the item selected in the bottom row.

The buttons to the right of Live TV provide quick access to apps such as Netflix and Prime Video.

Use the left and right directional buttons to move between a menu or apps on a row and the up and down directional buttons to move between rows. Press the Select button to access a menu or apps.

When the Smart Hub home screen appears, use the left or right directional button to move the focus to Live TV or Samsung TV Plus. Press the up directional button to move to the top row. You will be on the Guide item. The items in this row may include Guide, Channel List, Schedule Manager and others.

Samsung TV Plus may not be supported depending on the model or geographical area.

Using the Smart Hub Home Screen

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

• Settings

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

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

→ Source

You can select an external device connected to the TV.

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

• Q Search

A virtual keyboard appears on the screen and you can search for channels, programmes, titles of movies or apps provided by the Smart Hub service.

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

• 88 Apps

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

- To use this feature, the TV must be connected to the Internet.
- For more information, refer to "Using the Apps Service".

Home

This menu appears first when you press the button. Then you can quickly use any of 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.

For more information about the **Samsung Account**, refer to "Using a Samsung 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 broadcast a scheduled programme or when an event occurs on a registered device.

If you move the focus to **Notification**, and then press the Select button, a notification window appears on the right containing the following functions, **Delete All** and **Settings**.

Privacy Choices

You can view and set the privacy policy for Smart Hub and various other services.

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.

- To enjoy the content from these apps on your TV, they must be installed on the TV.
- When you watch some paid content, you may need to make a payment using their associated app.
- Some content may be restricted depending on your network conditions and your subscriptions to paid channels.
- Parental control is necessary when children use this service.
- Images may look blurry depending on the service provider's circumstances.
- This function may not be supported depending on the model or geographical area.

Launching the e-Manual

Open the user manual embedded in your TV.

Press the button to open Smart Hub, press the left directional button to move to Settings, and then press the Select button.

Use the up and down directional buttons to move to Support, and then select Open e-Manual to open the e-Manual.

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

- Malternatively, you can download a copy of the e-Manual from Samsung's website (http://www.samsung.com).
- Words in blue (e.g., Internet) indicate a menu item.

The e-Manual contains 2 rows of menu icons. Use the up and down directional buttons to move between rows and the left and right directional buttons to move within a row. Press the Select button to open the section you want to read.

The e-Manual contains a section called "Learn TV Remote" in "Accessibility Guidance". This is particularly useful for people who cannot easily see the buttons on the control or who are not clear what each button does. When you are viewing this section of the e-Manual, pressing the buttons on the remote control will not affect the TV. Note that the "Accessibility Guidance" item is only available when Voice Guide (Settings > General > Accessibility > Voice Guide Settings > Voice Guide) is enabled.