SAMSUNG

SMART TV
E-Manual

Contents

e-Manual Guide

Getting Started

Controlling the TV

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Troubleshooting

Viewing the e-Manual

The embedded e-Manual contains information about your TV's key features

Select the **e-설명서** button on the virtual remote panel or select **e-Manual (Troubleshooting)** (**Support**⟩ **e-Manual (Troubleshooting)**) from the screen menu. Alternatively, you can download a copy of the e-manual from Samsung's website and read it on your computer or print it out.

1. Select a category from the left side of the screen.

2. Select an item. The e-Manual will open on the page containing the selected information.

   🖉 Words in blue (e.g. **Picture Mode**) refer to screen menu options and words in light blue (e.g. **스마트허브** button) refer to remote control buttons.

   🖉 Arrows are used to indicate the menu path. (e.g. **가상리모컨** ⟩ **Menu** ⟩ **Picture** ⟩ **Picture Mode**)

Scrolling a Page

To scroll a page, use of one of the following methods:

- Press the ▲ or ▼ button on the scroll bar at the right edge of the screen.

- Drag or flick up or down up/down the line on either the left or right edge of the touch pad.

- Place the focus on the ▲ or ▼ button at the right edge of the screen, drag or flick up or down on the touch pad.

Using the Top Icons

Use the **Back** ←, **Forward** →, and **Opened pages** ↓ icons on the top left of the screen to navigate through pages. These icons are available when two or more pages are passed.

Returning to the Home Page

To return to the home page, press the 🅰 button or select 🏠 on the top right of the screen.

Searching the Index

Press the 🅱 button or select 📖 on the top right of the screen to display the index. Select a term to display the page containing the term.

Searching Pages

Press the C button or select 🔍 on the top of the screen to access the search screen. Enter a search phrase and select **Done**. Select an item from the search results list to navigate to the relevant page.

Closing the e-Manual

To close the e-Manual, select ✖ at the upper-right corner of the screen or press and hold the **복귀** button.

Jumping to a Menu Item

To directly jump to the menu item that is described in the current section, select **Try Now**. It is possible to jump from a menu item directly to the related section in the e-Manual. On the screen menu, select **e-설명서** on the virtual remote's panel that appears on the screen.

> 🖉 This feature may not be available, depending on the menu.

Updating the e-Manual

Press the 🎲 button and select **Apps**, and then select **More Apps**. The e-manual can be updated in the same way with an application update.

On the **More Apps** screen, select **Update Apps**, and then select e-Manual from the list. The e-Manual starts updating to the latest version. However, **Update Apps** appears on the screen only when the update is required.

Antenna Connection

Refer to the diagram and connect the antenna cable to the antenna input connector. Make sure that you do not bend the cable. The number of connectors and their names and locations may vary depending on the model.

Connect the correct antenna cable for your viewing environment (over-the-air or cable broadcasting). However, an antenna connection is not necessary if you are using a cable box or satellite receiver.

LED 7400, 7500, 8000, 8200, 8500, 8500 series models
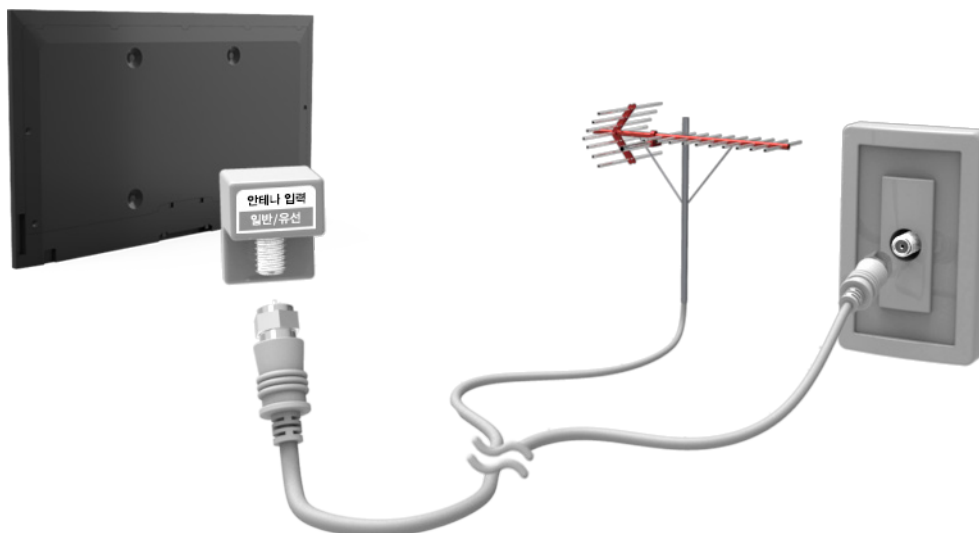
UHD F9000 and S9 series models
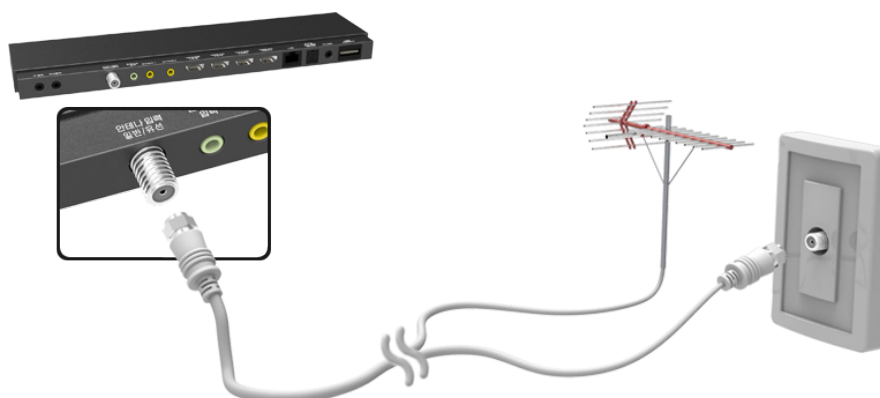
Video Device Connections

This TV has a wide range of connectors for video input from video devices such as Blu-ray players, DVD players, camcorders and gaming consoles. Below is a list of featured connectors shown in descending order of picture quality.

- HDMI

- Component

- AV

Connect the video device to the TV via an HDMI connector for the best picture quality. If the device does not have an HDMI connector, try a component connector to get the next best possible picture quality.

The number of connectors and their names and locations may vary depending on the model.

When connecting an external device, refer to the device's operating manual. The number of external device connectors and their names and locations may vary depending on the manufacturer.

HDMI Connection

LED 7400, 7500, 8000, 8200, 8500 series models

Refer to the diagram and connect the HDMI cable to the video device's HDMI output connector and the TV's HDMI input connector. One of the following HDMI cable types is recommended:

- High-Speed HDMI Cable

- High-Speed HDMI Cable with Ethernet

Use an HDMI cable with a thickness of 14 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 LAN (Local Area Network) built on coaxial cables standardized by the IEEE.

UHD F9000 and S9 series models

Refer to the diagram and connect the HDMI cable to the video device's HDMI output connector and the One Connect HDMI input connector. One of the following HDMI cable types is recommended:

- High-Speed HDMI Cable

- High-Speed HDMI Cable with Ethernet

Use an HDMI cable with a thickness of 14 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 LAN (Local Area Network) built on coaxial cables standardized by the IEEE.

Component Connection

LED 7400, 7500 series models

Refer to the diagram and connect the component cable to the TV's component input connectors and the device's component output connectors. Make sure the cable colors match the connector colors.
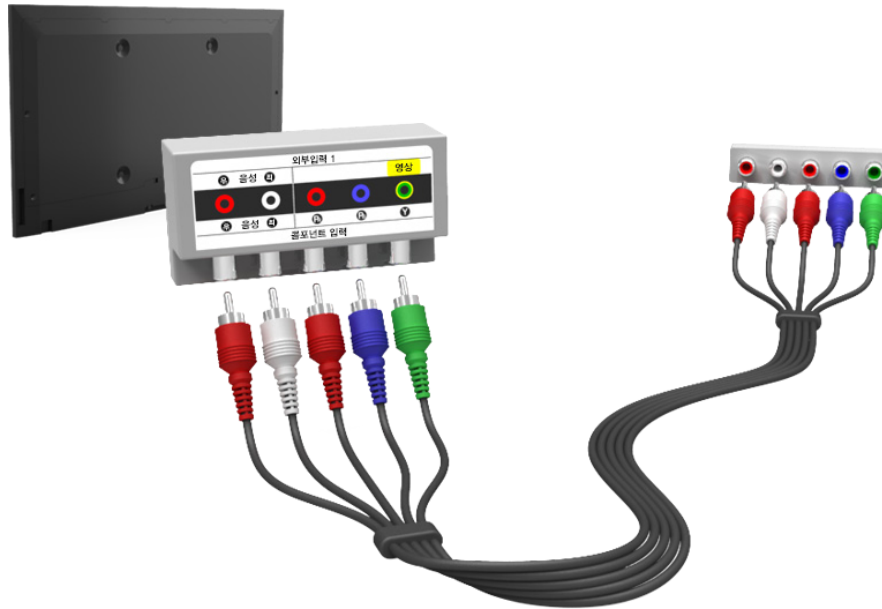
LED 8000, 8200, 8500 series models

Refer to the diagram and connect the component video and audio cables to the component adapter (accessory) and to the TV's component input connectors. Make sure the cable colors match the connector colors.
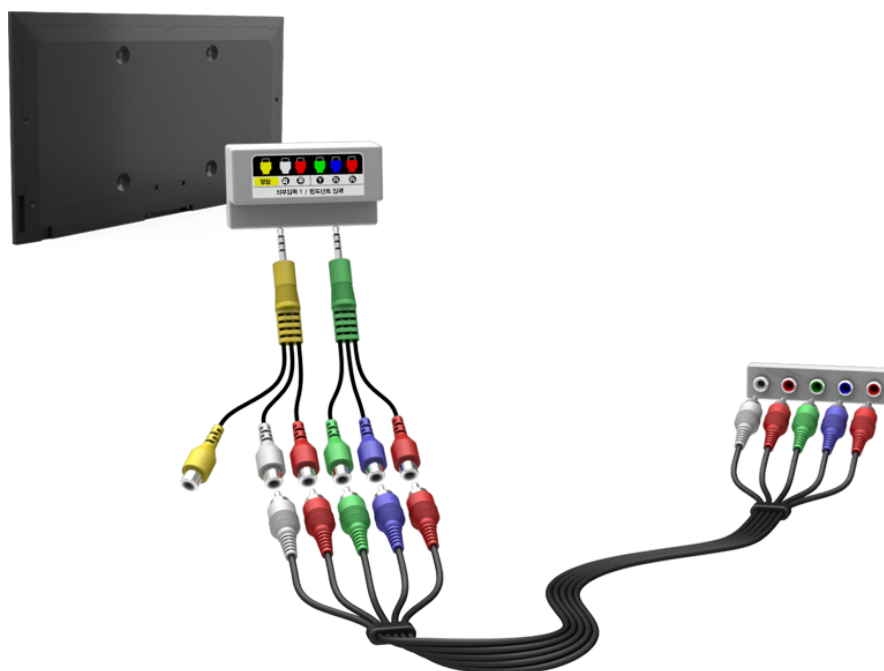
UHD F9000 and S9 series models

Refer to the diagram and connect the component video and audio cables to the component adapter (accessory) and to the One Connect component input connectors. Make sure the cable colors match the connector colors.
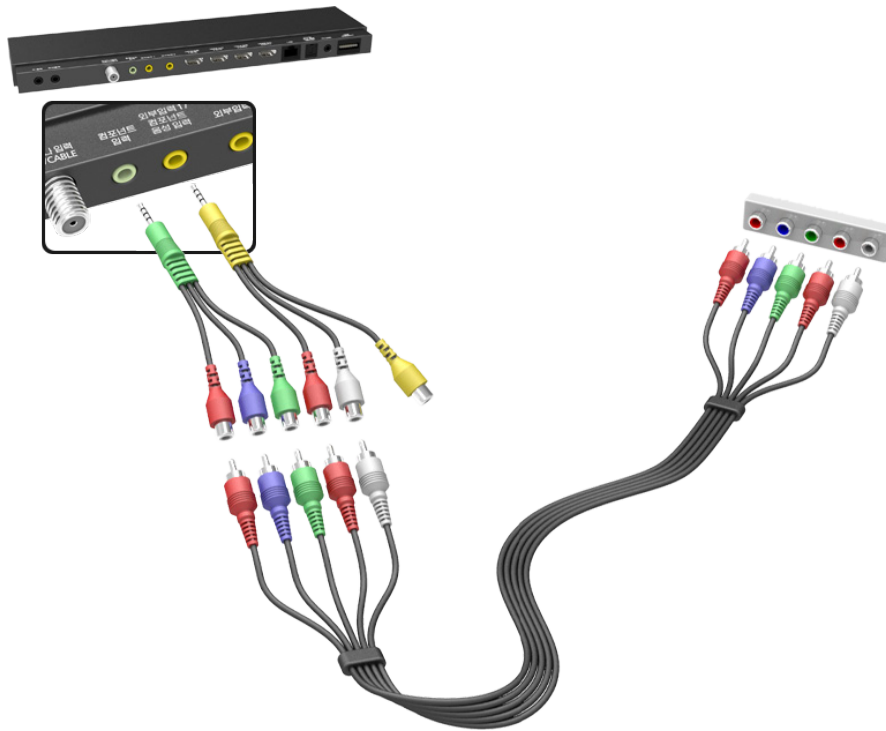
AV Connection

LED 7400, 7500 series models

Refer to the diagram and connect the AV cable to the TV's external input connectors and the device's AV output connectors.

If you are using the TV's external input 1 connectors, connect the video cable to the Y connector.
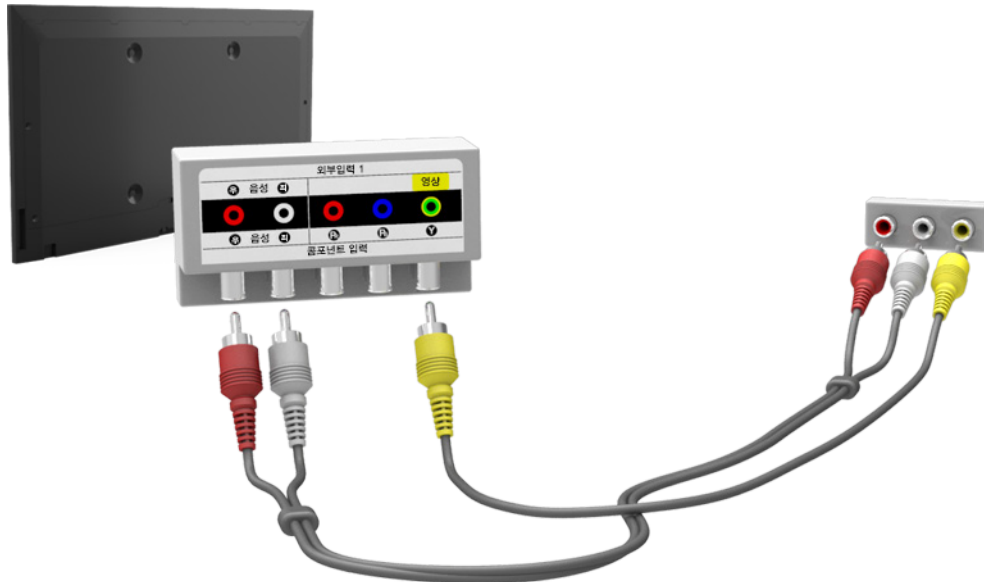
If the TV's external input 2 connectors are being used, use the enclosed AV connection adapter.
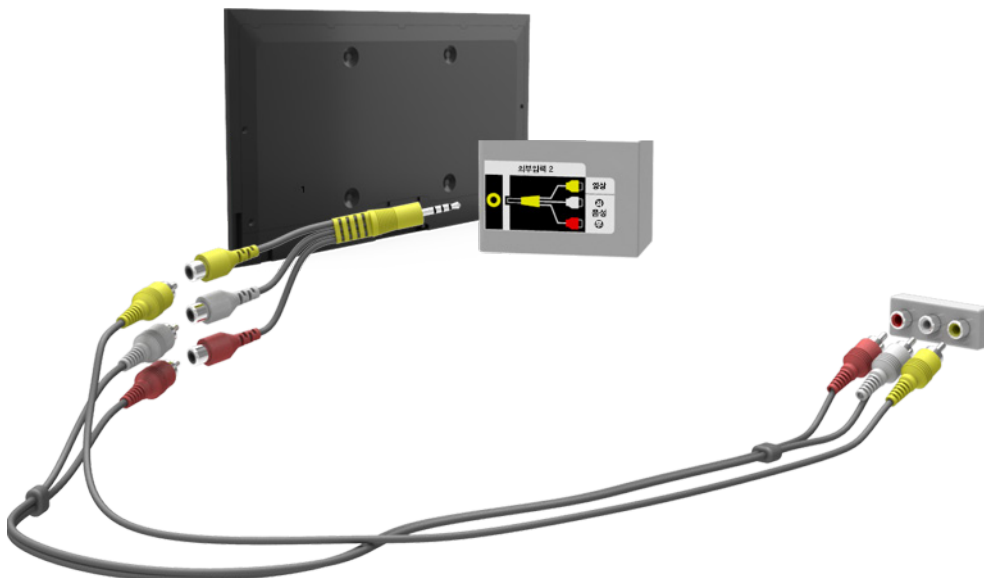
LED 8000, 8200, 8500 series models

Connect a composite cable to the provided jack-to-RCA extension cable, so that the connectors of the same color connect to each other. Plug the jack into the TV's composite video and audio input connector, and plug the three connectors on the other end into the external device's composite video and audio output connectors, as shown in the figure.
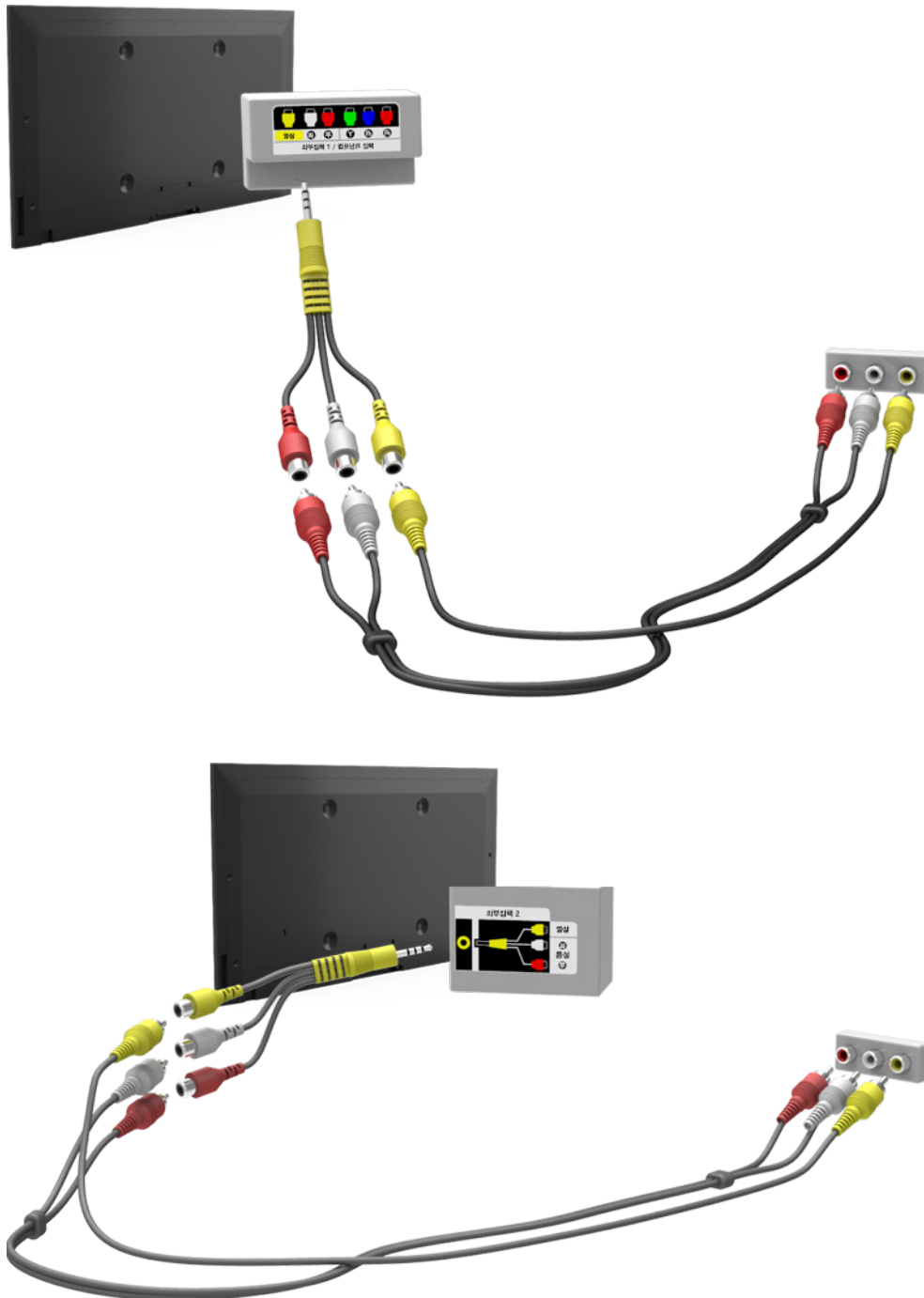
UHD F9000 and S9 series models

Refer to the diagram and connect the video and audio cables to the A/V adapter (included) and the adapter to One Connect's external input 1 or 2 connector.
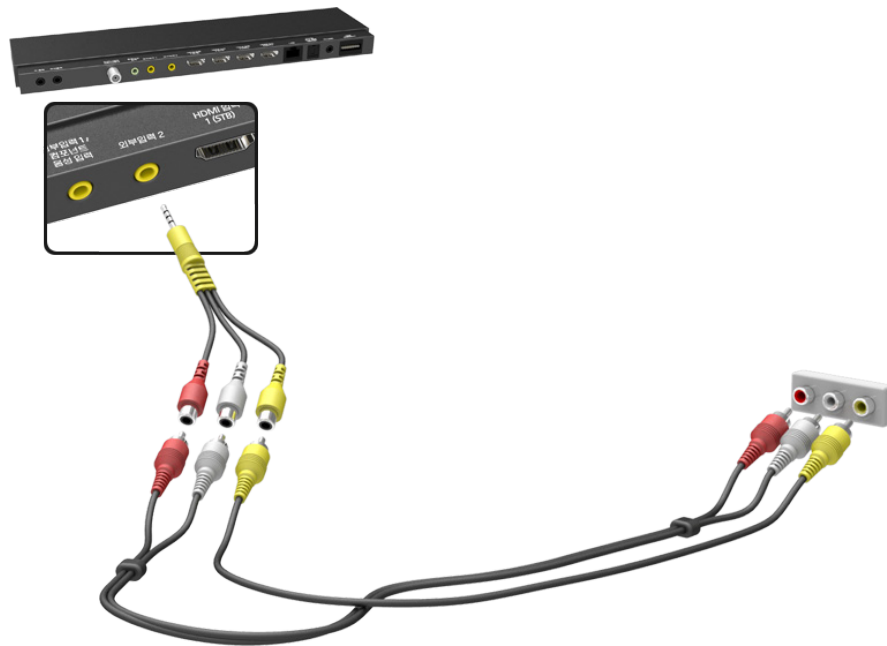
Audio Device Connections

This TV has a wide range of connectors for audio input from devices such as amplifiers, Blu-ray players and DVD players. For better audio quality, it is a good idea to use an AV receiver.

- Digital Audio (Optical)

- Audio

- ARC (Audio Return Channel)

The number of connectors and their names and locations may vary depending on the model.

When connecting an external device, refer to the device's operating manual. The number of external device connectors and their names and locations may vary depending on the manufacturer.

Digital Audio (Optical) Connection

Connecting the device using an optical cable does not automatically turn off the TV speakers. To turn off the TV speakers, open the Speaker Select (Sound > Speaker Settings > Speaker Select) menu, then set External Speaker.

Adjust the audio device's volume using its remote control.

An unusual noise coming from the audio device while it is being used may indicate a problem with the audio device itself. If this is the case, ask for assistance from the audio device manufacturer.

5.1-channel audio for digital channels is only available with broadcasts that support 5.1-channel audio.

LED 7400, 7500, 8000, 8200, 8500 series models

Refer to the diagram and connect the optical cable to the TV's digital audio output connector and the device's digital audio input connector.
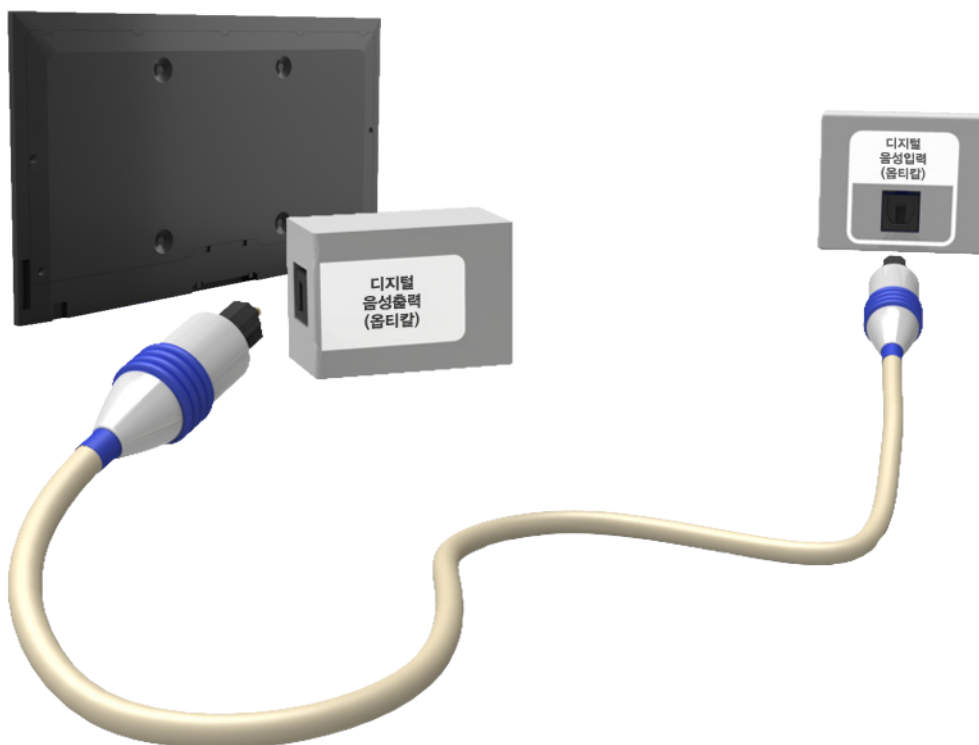
UHD F9000 and S9 series models

Refer to the diagram and connect the optical cable to the One Connect digital audio output connector and the device's digital audio input connector.
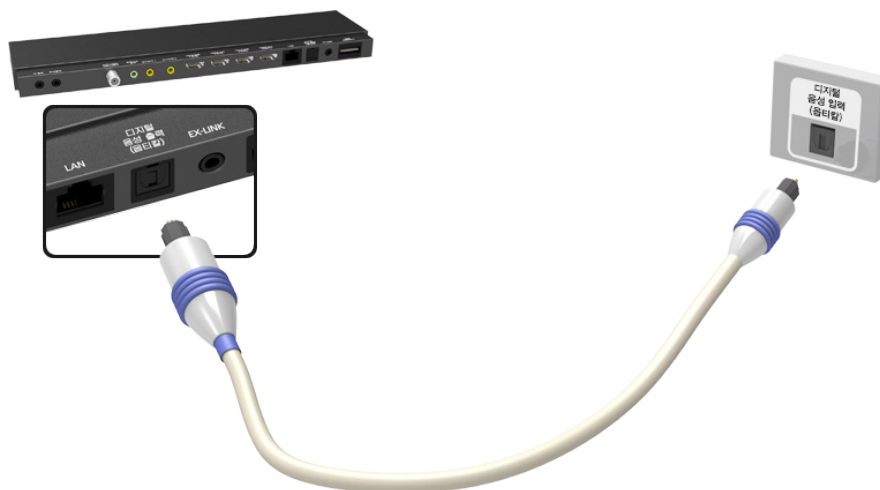
Audio Output Connection

LED 7400, 7500, 8000, 8200, 8500 series models

Refer to the diagram and connect the audio cable to the TV's audio output connector and the device's audio input connector.

음성출력

음성입력
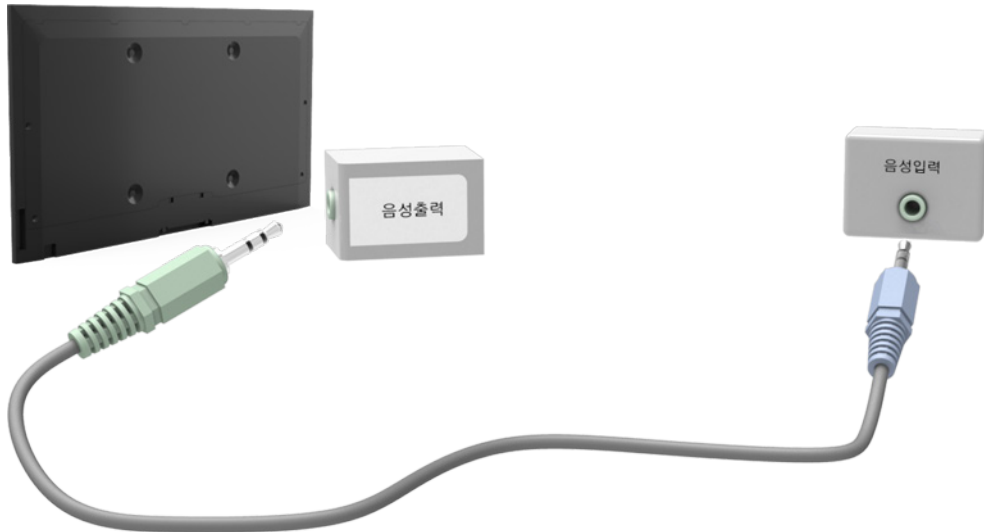
UHD F9000 and S9 series models

Refer to the diagram and connect the audio cable to the One Connect audio output connector and the device's audio input connector.

음성입력
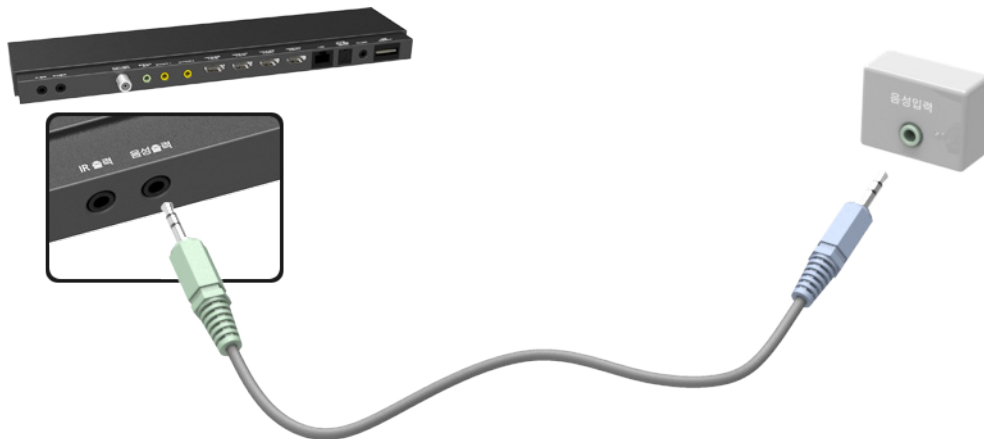
ARC (Audio Return Channel)

LED 7400, 7500, 8000, 8200, 8500 series models

This TV supports 3D and ARC (Audio Return Channel) functions via an HDMI cable. ARC enables digital sound to be output using just an HDMI cable. However, ARC is only available through the HDMI (ARC) port and only when the TV is connected to an ARC-enabled AV receiver. Connect the HDMI cable to the TV's HDMI (ARC) connector and the device's HDMI output connector.

🖉 Certain functions such as the Smart Hub may not be available if **3D Auto View** is set to **On** while **Source** is in HDMI mode. In this case, set **3D Auto View** or **3D Mode** to **Off**.

UHD F9000 and S9 series models

This TV supports 3D and ARC (Audio Return Channel) functions via an HDMI cable. ARC enables digital sound to be output using just an HDMI cable. However, ARC is only available through the HDMI (ARC) port and only when the One Connect is connected to an ARC-enabled AV receiver. Connect the HDMI cable to the One Connect HDMI (ARC) connector and the device's HDMI output connector.

> 🖉 Certain functions such as the Smart Hub may not be available if **3D Auto View** is set to **On** while **Source** is in HDMI mode. In this case, set **3D Auto View** or **3D Mode** to **Off**.

Computer Connection

This TV supports the HDMI/DVI port for connect the computer. Not all computers are HDMI-enabled. In this case, use an HDMI-to-DVI cable to connect the computer to the TV. Refer to the "Display Resolution" for information on the resolution settings supported to the TV.

HDMI Connection

LED 7400, 7500, 8000, 8200, 8500 series models

Refer to the diagram and connect the HDMI cable to the TV's HDMI input port and the computer's HDMI output port.
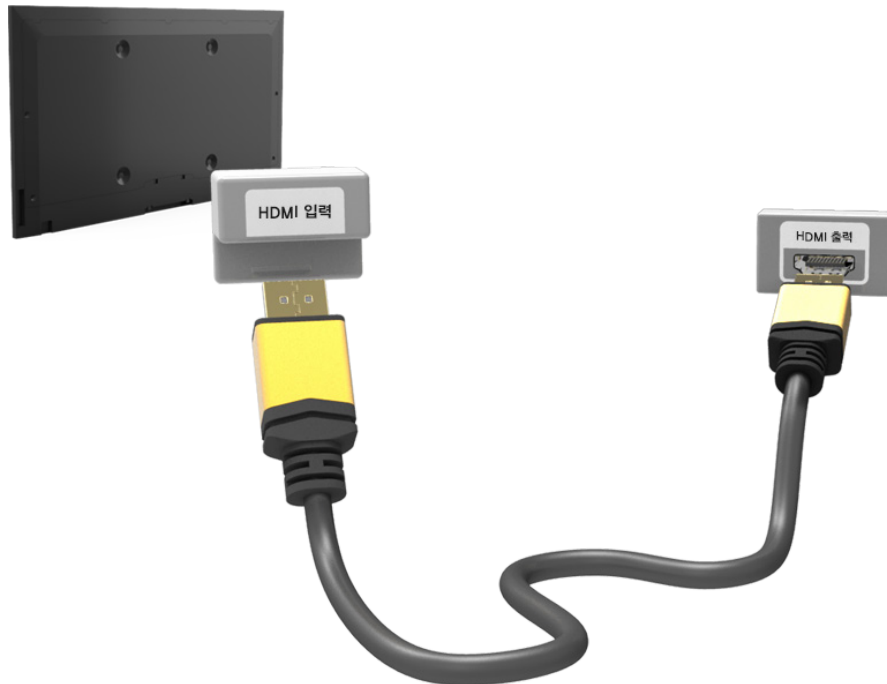
UHD F9000 and S9 series models

Refer to the diagram and connect the HDMI cable to the One Connect HDMI input port and the computer's HDMI output port.

HDMI-to-DVI Connection

LED 7400, 7500, 8000, 8200, 8500 series models

Refer to the diagram and connect the HDMI-to-DVI cable to the TV's HDMI (DVI) port and the computer's DVI output port. The HDMI-to-DVI connection is available through the HDMI (DVI) port only.

DVI cannot carry audio. To listen to the computer sound, connect the external speaker to the computer's audio output connector.
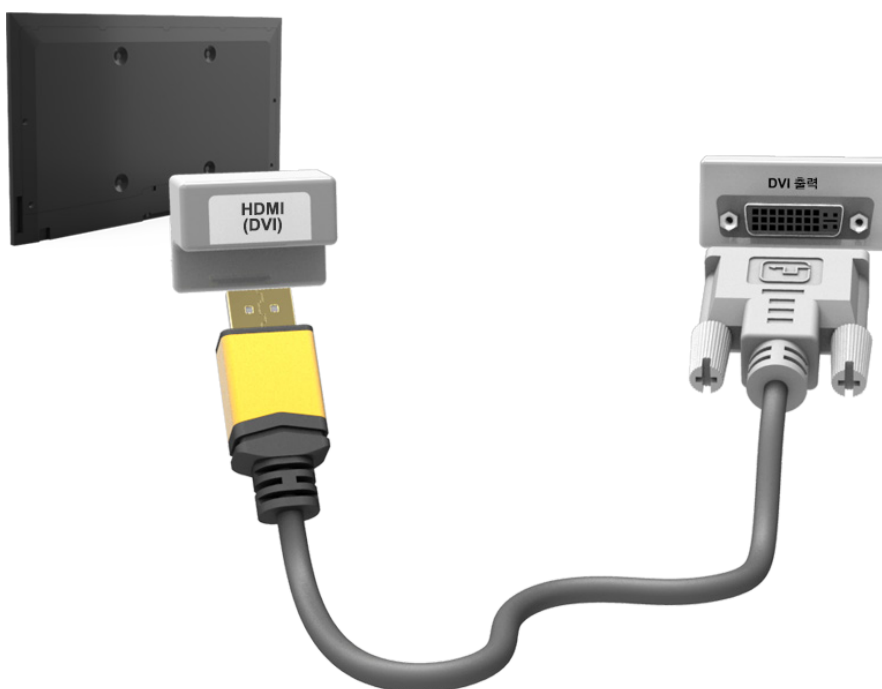
UHD F9000 and S9 series models

Refer to the diagram and connect the HDMI-to-DVI cable to the One Connect HDMI (DVI) port and the computer's DVI output port. The HDMI-to-DVI connection is available through the HDMI (DVI) port only.

DVI cannot carry audio. To listen to the computer sound, connect the external speaker to the computer's audio output connector.

Smartphone Connection

This TV supports MHL (Mobile High-definition Link) via an MHL cable. MHL makes it possible to enjoy video, image, and audio files from mobile devices on your TV. However, MHL is only available through the TV's HDMI (MHL) port and only when used in conjunction with an MHL-enabled mobile device. For information on configuring MHL on your mobile device, refer to the device's User Manual.

✎ Connecting the MHL-to-HDMI cable automatically switches **Picture Size** to **Screen Fit**. This setting will not change automatically if you are using an HDMI adapter. In this case, change the setting manually in the menu.

✎ If you are using an HDMI adapter, the TV recognizes the signal as an HDMI signal and may respond differently than it would to an MHL-to-HDMI cable connection.

LED 7400, 7500, 8000, 8200, 8500 series models

Refer to the diagram and connect the MHL cable to the TV's HDMI (MHL) connector and the mobile device's USB port.
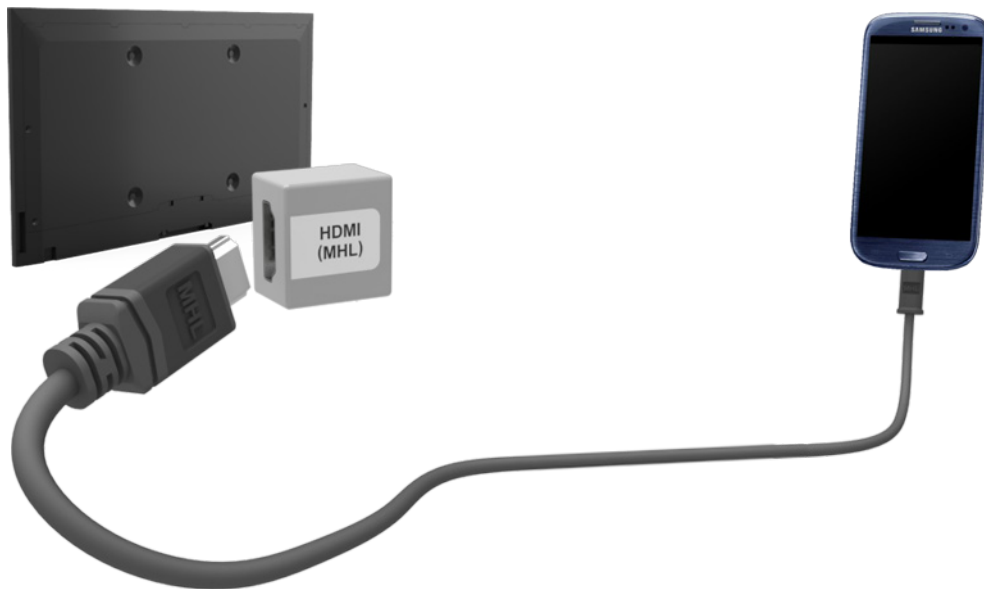
UHD F9000 and S9 series models

Refer to the diagram and connect the MHL cable to One Connect's HDMI (MHL) connector and the mobile device's USB port.

Switching Between Video Sources

Press the **외부입력** button to switch between devices connected to the TV.

For example, to switch to a game console connected to the second HDMI connector, press the **외부입력** button. From the Source list, select **HDMI2**. The connector names may vary depending on the product.

Select **Tools** at the upper-right corner of the Source screen to access the following functions.

- **Edit Name**: Users can rename devices connected to the TV to more easily identify external sources.

  With a computer connected to the TV's HDMI (DVI) port via an HDMI cable, for example, you can change **Edit Name** to **PC**.

  With a computer connected to the TV's HDMI (DVI) port via an HDMI-to-DVI cable, for example, you can change **Edit Name** to **DVI PC**.

  With an AV device connected to the TV's HDMI (DVI) port via an HDMI-to-DVI cable, for example, you can change **Edit Name** to **DVI Devices**.

- **Information**: View detailed information about the connected devices.

- **Refresh**: Select this if a connected device does not appear in the list. If the list does not show the device after selecting **Refresh**, check the status of the TV-to-device connection.

- **Remove USB**: Remove the USB device from the list to safely. This function is only available when the USB device selected.

Select **Universal Remote Setup** at the top right of the Source screen. Using the universal remote control, users can control external devices connected to the TV, such as a set-top box, Blu-ray player, and AV receiver. For details, see "Universal Remote Control Setup".

Programming

Scan and index available channels.

Broadcasting

Auto Program	
Antenna	Cable
Channel List	
Guide	
Schedule Manager	
Edit Channel	
Edit Favorites	
∨	
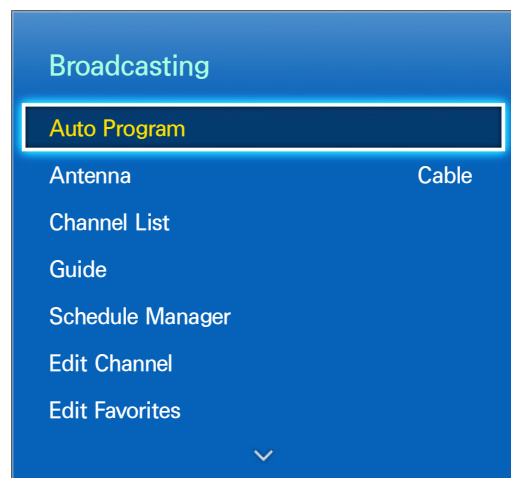
✎ The displayed image may differ depending on the model.

Users can also remove channels from the index, restore removed channels and designate favorite channels for a more convenient TV viewing experience. Programming is not necessary if you are connected to a cable or satellite receiver.

Auto Program

가상리모컨 ⬚ > Menu▥ > Broadcasting > Auto Program (Try Now)

Automatically scans and indexes all channels received through the TV's antenna input connector.

1. To start, navigate to Broadcasting and select Auto Program.

2. Select Start when prompted with a message. This initiates the Auto Program function. The process can take up to 30 minutes to complete. If Starting the Auto Program function when there is an existing index of channels overwrites the previous index.

Channel Management

가상리모컨 > Menu > Broadcasting > Edit Channel `Try Now` `Try Now`

Broadcasting

Auto Program

Antenna   Cable

Channel List

Guide

Schedule Manager

Edit Channel

Edit Favorites

⌄
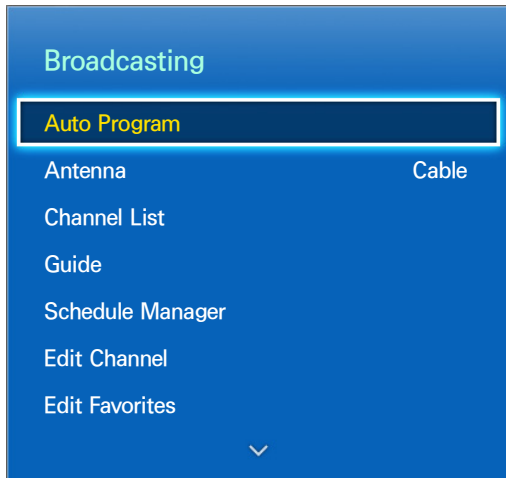
✎ The displayed image may differ depending on the model.

Remove channels from the index, restore removed channels, and rename analog channels. The **Edit Channel** screen icons indicate the following:

- A : An analog channel

- 💚 : A favorite channel

- 🔒 : A locked channel

Select the **간편메뉴** button on the virtual remote panel from the **Edit Channel** screen to access the following options:

- **Antenna**: Choose between **Cable** and **Air**.

- **Category**: The TV's channel index is divided into different categories such as **All**, **Added Ch.**, **Recently Viewed** and **Mostly Viewed**. Choose a category.

- **Edit Favorites**: Organize favorites lists to find favorite channels and switch between channels more easily. For details, see "Favorite Channels".

- **Information**: View detailed information about the current program.

Remove Channels

Remove registered channels from the index. Removing channels appearing in the Recently Viewed or Mostly Viewed list clears the channels from the list only and does not remove them from the index.

1. From the screen, select the channels you wish to remove. Unselect channels by choosing them again.

2. Press the C button. The selected channel(s) will be deleted.

Restore Removed Channels

Restore removed channels. Removed channels are displayed in gray on the All list. In addition, the Add option is only available for removed channels.

1. Select the 간편메뉴 button on the virtual remote panel. The list screen appears. Select Category and then select All.

2. From the All list, select the channels you wish to restore. Unselect channels by choosing them again.

3. Press the C button. The selected channel(s) will be added.

Channel Lock

Users can lock channels you don't want your children to view.

Lock is only available with Channel Lock set to On. Navigate to Channel Lock (Broadcasting > Channel Lock) and set On. Try Now

Navigate to the Edit Channels screen, select the channels you wish to lock, press B button, and then enter the password. This locks the selected channels.

Channel Unlock

Unlock locked channels. Navigate to the Edit Channels screen, select the locked channels you wish to unlock, press the B button and then enter the password. This unlocks the selected channels.

Rename Analog Channels

From the screen, select an analog channel, and then select the 간편메뉴 button on the virtual remote panel. The list screen appears. Select Rename channels from the list.

Users can now rename the selected channel. The new name can be up to 5 characters long.

Favorite Channels

가상리모컨🗗 > Menu▥ > Broadcasting > Edit Favorites `Try Now`

Broadcasting	
Auto Program	
Antenna	Cable
Channel List	
Guide	
Schedule Manager	
Edit Channel	
Edit Favorites	
⌄	
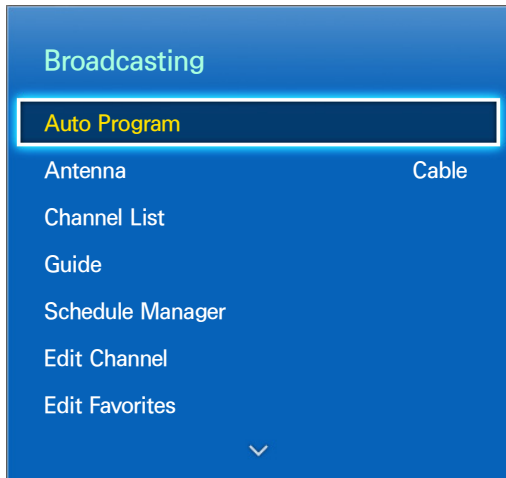
✎ The displayed image may differ depending on the model.

Users can designate frequently watched channels as favorites. The channels assigned as a favorite are displayed with the 💚 symbol on the Edit Channel and channel list screens. Users can create up to 5 favorite channel lists. Users can also rename and edit favorite channel lists.

From the Edit Favorites screen, select the 간편메뉴 button on the virtual remote panel to access the following options:

- Antenna: Choose between Cable and Air.

- Edit Channel: Users can manage the channels saved on the TV. For details, see "Channel Management".

- Information: View detailed information about the current program.

Add Favorite Channels

Add a channel to a favorite channels list.
1. Press the 🅰 button to bring up the channel list containing the channels you wish to add and then select the channels. However, the 🅰 button is available only when the Recently Viewed or Mostly Viewed channel list has one or more channel entries.

2. Press the 🅱 button to bring up a favorite channels list and then press the 🅲 button to add the selected channels.

Remove Favorite Channels

Remove channels from a favorite channels list.
1. Press the 🅱 button to bring up a favorite channels list and then select the channels you wish to remove.

2. Press the 🅲 button to remove the channels from the list.

Rearrange the Favorite Channels List

Rearrange the order of the channels in a Favorite Channels List.

1. Press the **B** button to bring up the a favorite channels list and select the channel you wish to move.

2. Press the **A** button to rearrange the order of the selected channel. Press the touch pad to finish.

Rename a Favorite Channel List

Rename an existing favorite channels list.

1. Select the **간편메뉴** button on the virtual remote panel. The list screen appears. Select **Rename Favorites** from the list.

2. Rename the list in the popup window. The new name can be up to 20 characters long.

Copy a Favorite Channels List

Copy channels from one favorite channels list to another.

1. Press **B** to change the Favorites list loaded on the right side of the screen.

2. In the Favorites list on the right side of the screen, select all the channels you want to copy.

3. Select the **간편메뉴** button on the virtual remote panel and then choose **Copy to Favorites** from the list. From the popup window that appears on the screen, select the Favorites lists you want to copy the selected channels to. This copies the selected channels to the selected Favorites lists.

✎ **Copy to Favorites** is only available when there are channels in the Favorites list displayed on the right side of the screen.

Network Configuration

Connecting the TV to a network gives you access to online services such as the Smart Hub as well as software updates.

Wired Network

LED 7400, 7500, 8000, 8200, 8500 series models

There are three ways to connect the TV to a Local Area Network (LAN).
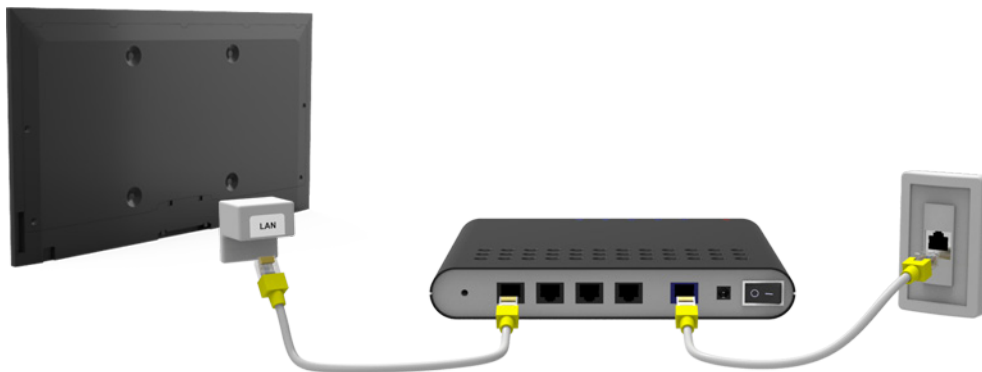
- External Modem

- ① IP Router + ② External Modem
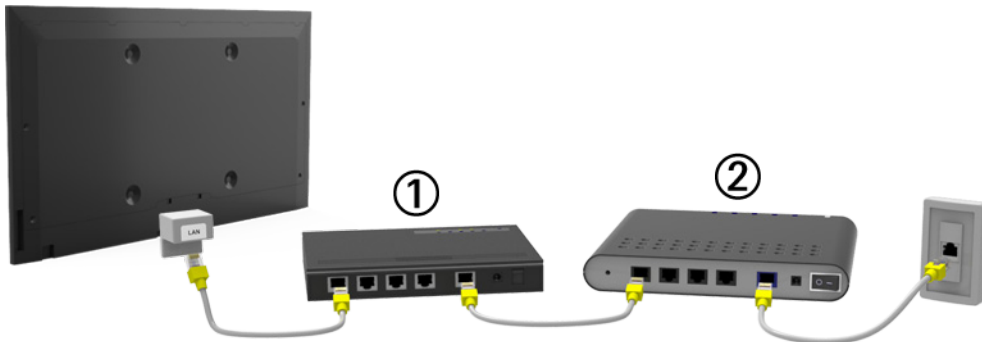
- Wall-mounted LAN Outlet
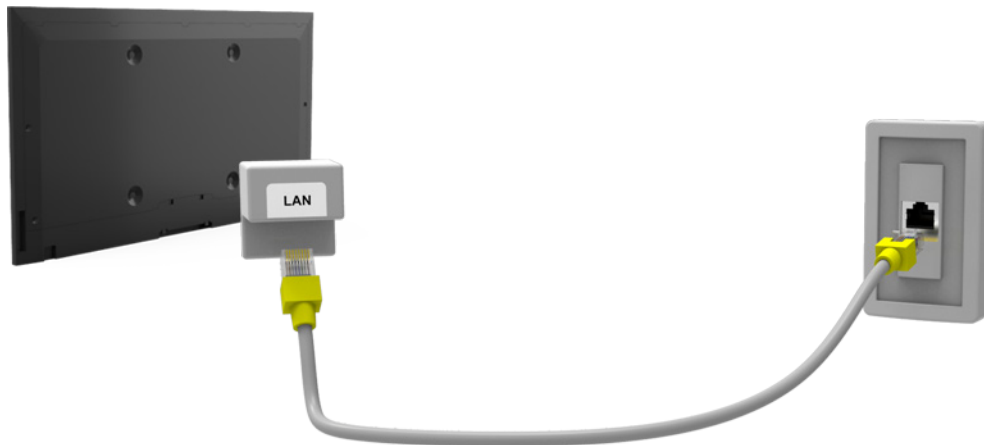
UHD F9000 and S9 series models

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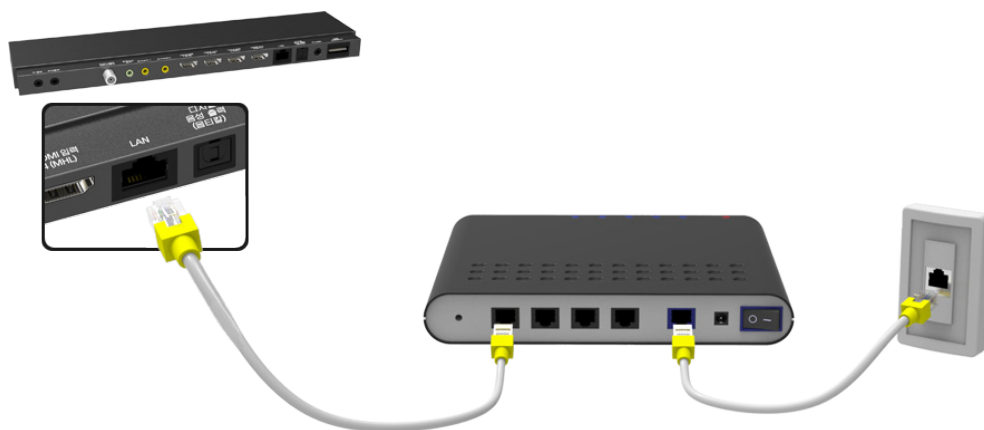
- External Modem

- ① IP Router + ② External Modem
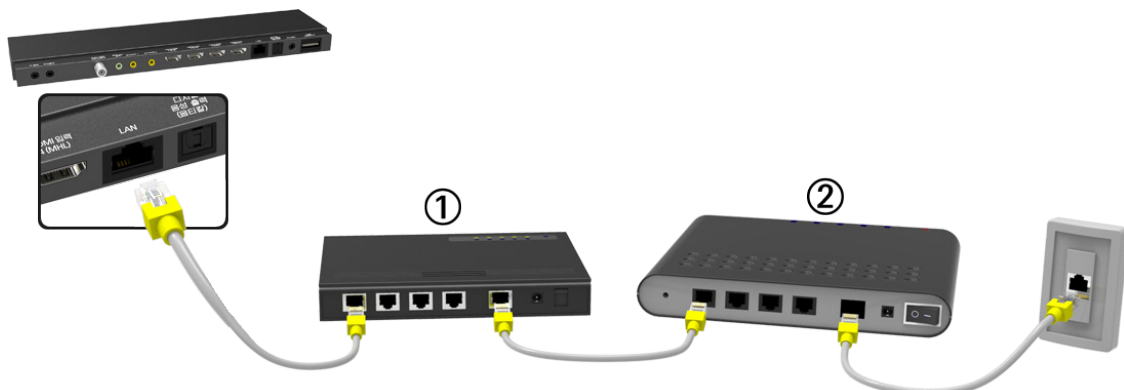
- Wall-mounted LAN Outlet
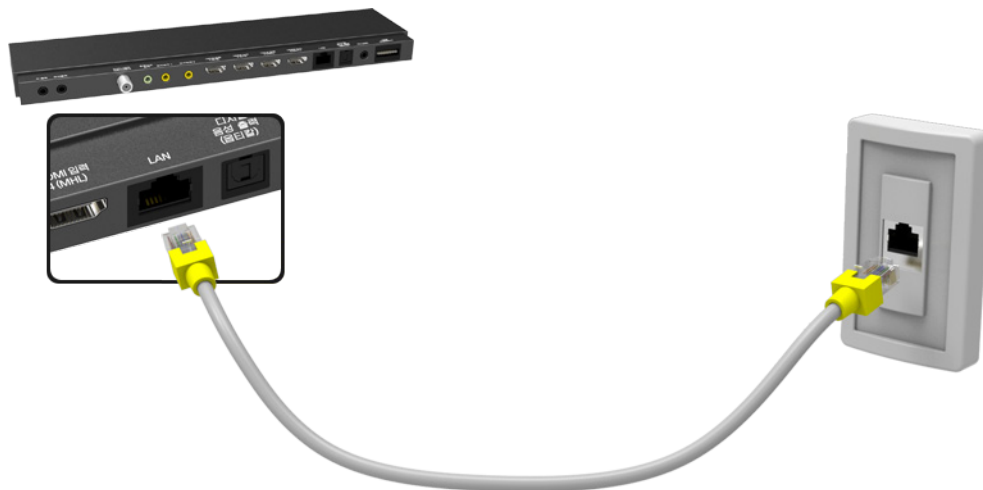
Wireless Network

Connect the TV to the Internet using a standard router or modem.

Wireless Network Precautions

- This TV supports the IEEE 802.11a/b/g /n communication protocols. Samsung recommends using IEEE 802.11n. Otherwise when you play video over a network connection, the video may not play smoothly.

- To use a wireless network, the TV must be connected to a wireless router or modem. If the wireless router 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 in use for the wireless router. If the channel set for the wireless router is currently being used by 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 security key using characters and numbers. This security key is then needed to connect to the wireless network.

Network Security Protocols

The TV only supports the following wireless network security protocols and is unable to connect to non-certified wireless routers:

- Authentication Modes: WEP, WPAPSK, WPA2PSK

- Encryption Types: WEP, TKIP, AES

If the wireless router has been set to Pure High-throughput (Greenfield) 802.11n mode and the Encryption Type to WEP or TKIP, Samsung SMART TVs will not support the connection in compliance with the new Wi-Fi certification specifications.

If the wireless router supports WPS (Wi-Fi Protected Setup), it is possible to connect to the network using PBC (Push Button Configuration) or a PIN (Personal Identification Number). WPS automatically configures the SSID and WPA key settings.

Wired Network Setup

가상리모컨 > Menu > Network > Network Settings Try Now

Network	
Network Status	
Network Settings	
Wi-Fi Direct	
AllShare Settings	
Device Name	[TV]Samsung LE...
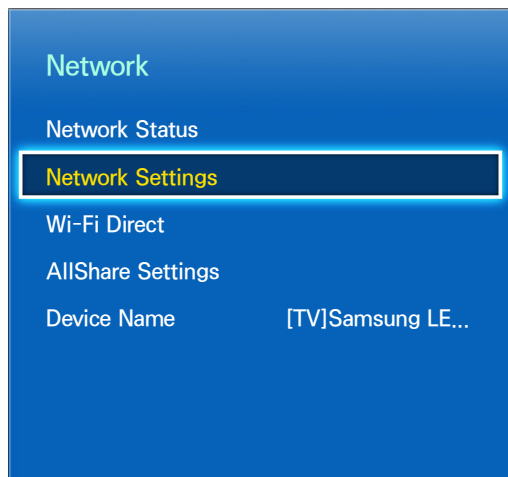
✎ The displayed image may differ depending on the model.

Automatic Wired Network Setup

The TV's wired network connection is automatically configured when it is connected to a network that supports DHCP.

1. Set **Network type** to **Wired** and then select **Connect**.

2. The TV attempts to connect to the network. A confirmation message is then shown once a connection is established. Select **OK** to proceed. If the attempt fails, try again or connect manually.

Manual Wired Network Setup

If the network requires a static IP address, enter the IP address, subnet mask, gateway and DNS values to connect to the network manually. To get the IP address, subnet mask, gateway and DNS values, contact your Internet Service Provider (ISP). Refer to the "Dynamic versus Static IP Addresses" for more information.

1. Set **Network type** to **Wired** and then select **Connect**.
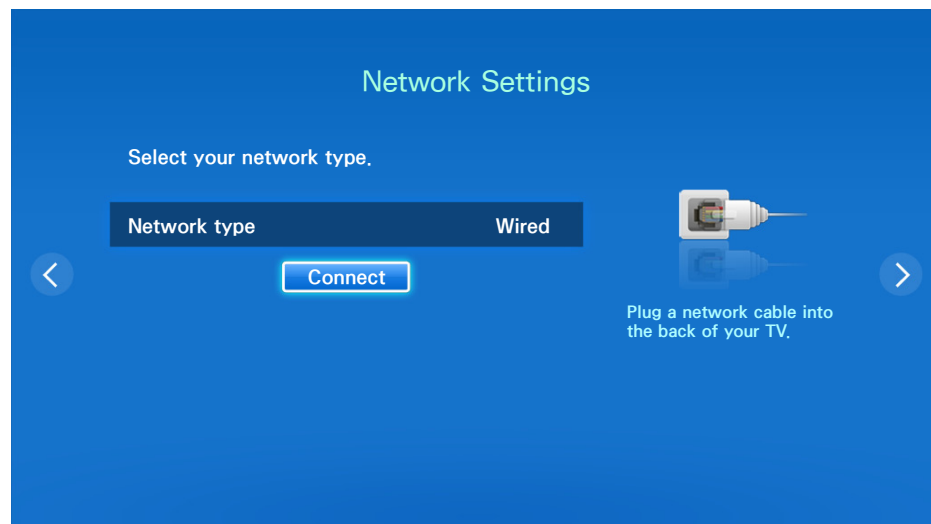
2. Select **Stop** when the TV attempts to connect to the network. Once the network connection has been interrupted, select **IP Settings**.
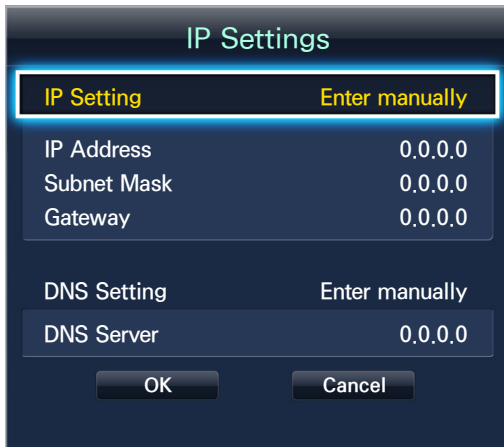
3. From the **IP Settings** screen, set **IP Setting** to **Enter manually**, enter **IP Address**, **Subnet Mask**, **Gateway**, and the **DNS Server** values, and then select **OK**.

- Use one of the two methods below to enter the numerical values.

  Use the on-screen QWERTY keypad.
  Press the **가상리모컨** and use the keys on the number panel.

IP Settings	
IP Setting	**Enter manually**
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS Setting	Enter manually
DNS Server	0.0.0.0
OK	Cancel

4. The TV attempts to connect to the network again using the specified settings. A confirmation message is then shown once a connection is established. Select **OK** to proceed.

✎ The network connection speed may differ depending on the DNS server settings.

✎ For details on the DNS server settings, contact the Internet service provider (ISP).

Failed Wired Connection

No network cable found Try Now Try Now

Make sure the network cable is plugged in. If it is connected, make sure the router is turned on. If it is on, try turning if off and on again.

IP auto setting failed Try Now

Perform the following or set the IP address manually from **IP Settings**.
1. Ensure that the DHCP server is enabled on the router and reset the router.

2. If this does not work, contact your Internet Service Provider for more information.

Unable to connect to the network Try Now

Check the following:
1. Check the **IP Settings** settings.

2. Ensure that the DHCP server is enabled on the router and unplug and then plug the router back in.

3. If this does not work, contact your Internet Service Provider for more information.

Connected to a local network, but not to the Internet [Try Now]

1. Make sure that the Internet LAN cable is connected to the router's external LAN port.

2. Check the DNS settings under **IP Settings**.

3. If the problem persists, contact your Internet Service Provider.

Network setup complete, but unable to connect to the Internet [Try Now]

If the problem persists, contact your Internet Service Provider.

Wireless Network Setup

가상리모컨 > **Menu** > **Network** > **Network Settings**

Network	
Network Status	
Network Settings	
Wi-Fi Direct	
AllShare Settings	
Device Name	[TV]Samsung LE...
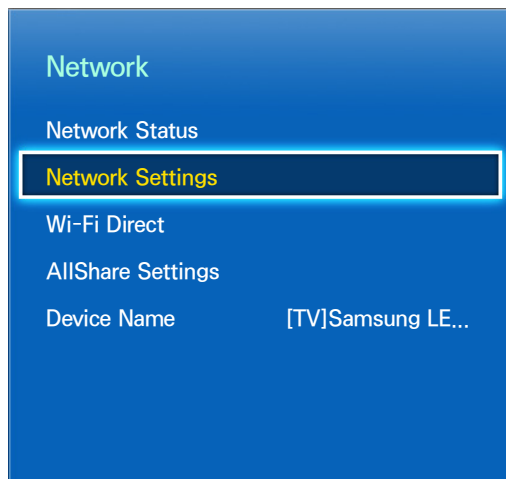
🖉 The displayed image may differ depending on the model.

Automatic Wireless Network Setup

Connect the TV to the Internet via a wireless router. Check the wireless router's SSID and security key settings before attempting to connect. The security key can be found on the wireless router's configuration screen.

1. Setting **Network type** to **Wireless** automatically displays a list of available wireless networks.

2. Select the network (SSID) you wish to connect to. If the desired wireless router doesn't appear in the list, select **Add Network** and enter the network's SSID manually.

3. Enter the security key and select **Done**. If the selected network is not security-enabled, the TV will attempt a connection right away.

4. The TV attempts to connect to the network. A confirmation message is then shown once a connection is established. Select **OK** to proceed. If the attempt fails, try again or connect manually.

Manual Wireless Network Setup

If the network requires a static IP address, enter the IP address, subnet mask, gateway and DNS values to connect to the network manually. To get the IP address, subnet mask, gateway and DNS values, contact your Internet Service Provider (ISP). Refer to the "Dynamic versus Static IP Addresses" for more information.

1. Setting **Network type** to **Wireless** automatically displays a list of available wireless networks.
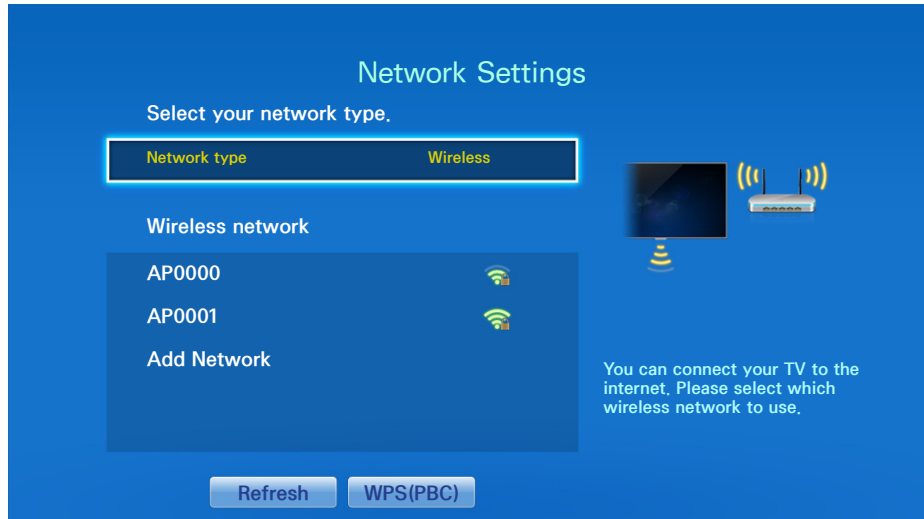
2. Select the network (SSID) you wish to connect to. If the desired wireless router doesn't appear in the list, select **Add Network** and enter the network's SSID manually.

3. Enter the security key and select **Done**. If the selected network is not security-enabled, the TV will attempt a connection right away.

4. Select **Stop** when the TV attempts to connect to the network. Once the network connection has been interrupted, select **IP Settings**.

5. From the **IP Settings** screen, set **IP Setting** to **Enter manually**, enter **IP Address**, **Subnet Mask**, **Gateway**, and the **DNS Server** values, and then select **OK**.

- Use one of the two methods below to enter the numerical values.

  Use the on-screen QWERTY keypad.

  Press the **가상리모컨** and use the keys on the number panel.

IP Settings	
IP Setting	Enter manually
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS Setting	Enter manually
DNS Server	0.0.0.0
OK	Cancel

6. The TV attempts to connect to the network again using the specified settings. A confirmation message is then shown once a connection is established. Select **OK** to proceed.

✎ The network connection speed may differ depending on the DNS server settings.

✎ For details on the DNS server settings, contact the Internet service provider (ISP).

Using the WPS Button

If the router has a WPS push button, you can use it to connect the TV to the router automatically. WPS automatically configures the SSID and WPA key settings.

1. Setting **Network type** to **Wireless** automatically displays a list of available wireless networks.

2. Select **WPS(PBC)** and then press the router's WPS button within two minutes.

3. The TV automatically acquires the SSID and security key settings and connects to the network. A confirmation message is then shown once a connection is established. Select **OK** to proceed.

Failed Wireless Connection

Wireless network connection failed, or no wireless router selected. `Try Now` `Try Now`

Go to **Network Settings** and select the correct router.

Unable to connect to a wireless router `Try Now` `Try Now`

Check the following:
1. Check that the router is turned on, and if it is, turn it off and on again.
2. Enter the correct security key if required.

IP auto setting failed `Try Now`

Perform the following or set the IP address manually from **IP Settings**.
1. Make sure that the DHCP server is enabled on the router and unplug and plug the router back in.
2. Enter the correct security key if required.
3. If this does not work, contact your Internet Service Provider for more information.

Unable to connect to the network `Try Now`

Check the following:
1. Check the **IP Settings** settings.
2. Enter the correct security key if required.
3. If this does not work, contact your Internet Service Provider for more information.

Connected to a local network, but not to the Internet `Try Now`

1. Make sure that the Internet LAN cable is connected to the router's external LAN port.
2. Check the DNS settings under **IP Settings**.
3. If the problem persists, contact your Internet Service Provider.

Network setup complete, but unable to connect to the Internet `Try Now`

If the problem persists, contact your Internet Service Provider.

Dynamic versus Static IP Addresses

If the network requires a dynamic IP address, use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway and DNS values the TV needs to access the Internet, so they do not have to be entered manually. Most home networks use a dynamic IP address.

If the network requires a static IP address, enter the IP address, subnet mask, gateway, and DNS values manually when setting up the network connection. To get the IP address, subnet mask, gateway and DNS values, contact your Internet Service Provider (ISP).

If the network requires a static IP address, use an ADSL modem that supports DHCP. ADSL modems that support DHCP also allow static IP addresses.

Checking the Network Status

가상리모컨 > Menu > Network > Network Status Try Now

Network	
Network Status	
Network Settings	
Wi-Fi Direct	
AllShare Settings	
Device Name	[TV]Samsung LE...
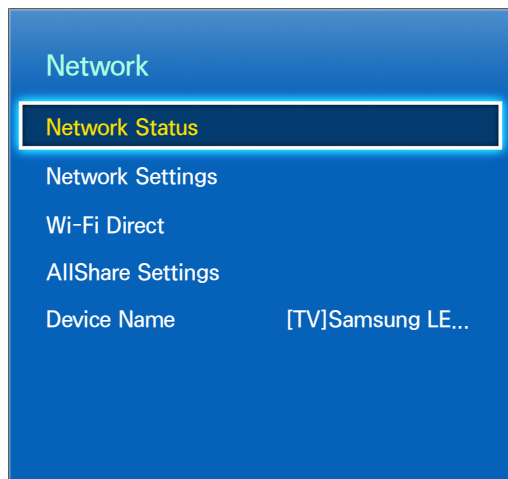
✎ The displayed image may differ depending on the model.

View the current network and Internet status.

Mobile Device Connection

```
Network

Network Status

Network Settings

Wi-Fi Direct

AllShare Settings

Device Name            [TV]Samsung LE...
```
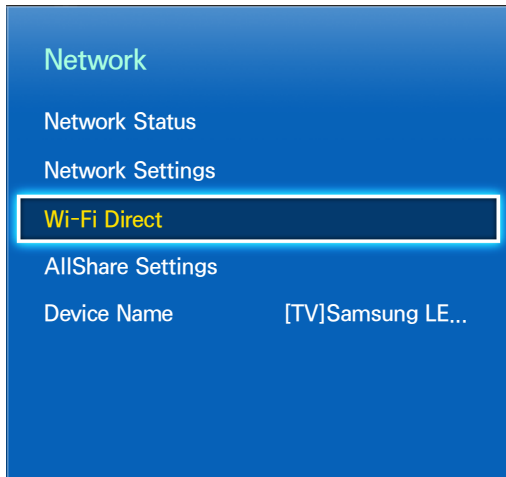
✎ The displayed image may differ depending on the model.

Users can either directly connect a mobile device to the TV with no need for a wireless router or connect them on the same network to play media files from the mobile device on the TV.

Wi-Fi Direct

가상리모컨🔲 > Menu▥ > Network > Wi-Fi Direct (Try Now)

Connect a mobile device that supports Wi-Fi Direct to the TV without using a wireless router.

1. Enable Wi-Fi Direct on the mobile device and then launch **Wi-Fi Direct** The TV automatically scans for and displays a list of available devices. The TV's name also appears on the mobile device.

2. Select the device from the list to initiate a connection. If a connection request is made by the TV, a permission message appears on the mobile device and vice versa. Accept the request to connect the mobile device to the TV.

AllShare Settings

가상리모컨🔲 > Menu▥ > Network > AllShare Settings

This TV can play media files from computers or other DLNA-enabled devices connected to the TV via a network. For details, see "Using Networked External Storage Devices".

In addition, This TV can be used as a display for mobile devices, including smartphones and tablets. For details, see "Screen Mirroring".

Rename the TV

가상리모컨🔲 > Menu▥ > Network > Device Name (Try Now)

Assign a unique name for your TV. The assigned name appears on the external devices connected to the TV via the network.

Smart Touch Control

The Smart Touch Control makes it easier and more convenient to use the TV. For example, you can use the remote control's built-in touch pad to move the focus and make selections as you would on a computer using a mouse. In addition, you can use the virtual control panel displayed on the screen to change channels, play media files, and access favorites.

📝 We recommend to use the Smart Touch Control in less than 20ft(6m). A usable distance may differ depending on the wireless environmental conditions.

Inserting the Batteries (AAA X 2)

1. Slightly lift the battery cover by pulling the strap or using a plastic card. Next, pull on the cover's notch with a fingernail to remove the cover completely.

   📝 Check the location of the battery cover groove. The groove's location may vary depending on the type of Smart Touch Control is provided with the product.

2. Insert 2 AAA batteries, making sure to align the positive and negative ends correctly.

3. Align the battery cover with the back of the remote control and press down along the edges until it is cleanly attached to the remote control.

Connecting to the TV

In order to operate the TV using a Smart Touch Control, you must first pair it to the TV via Bluetooth. However, the Smart Touch Control is only available for the paired Samsung TV.

1. Point the Smart Touch Control toward the IR sensor of the TV, and press TV button on the Smart Touch Control. The remote control receiver's location may vary depending on the model.

2. A Bluetooth icon will appear at the bottom left of the screen as shown below. The TV will then attempt to connect to the Smart Touch Control automatically.

<Attempting to connect and completion icons>

Reconnecting the Smart Touch Control

If the Smart Touch Control stops operating or works abnormally, replace the battery as this may be caused by insufficient battery power. If the problem persists, press the PAIRING button on the Smart Touch Control to restore pairing with the TV. The PAIRING button cannot be accessed without removing the Smart Touch Control's battery cover. Within a distance between 1ft to 13.1ft (30cm to 4m), point the Smart Touch Control to the TV receiver and press the PAIRING button. When pairing is complete, the pairing image displays at the bottom left of the TV screen.

<The Smart Touch Control's pairing button>

Battery Low Alarm

If the battery becomes low while using the Smart Touch Control, the following alarm window appears at the bottom of the left screen. If the alarm window pops up, replace the batteries of the Smart Touch Control. Use alkaline batteries for longer usage.

<Low battery alarm window>

Buttons and Descriptions

조용히

TV

MIC

STB

외부입력

음량

음성인식

채널

가상리모컨

추천 | 검색

A   B   C   D

복귀
종료

스마트허브

방송안내

SAMSUNG
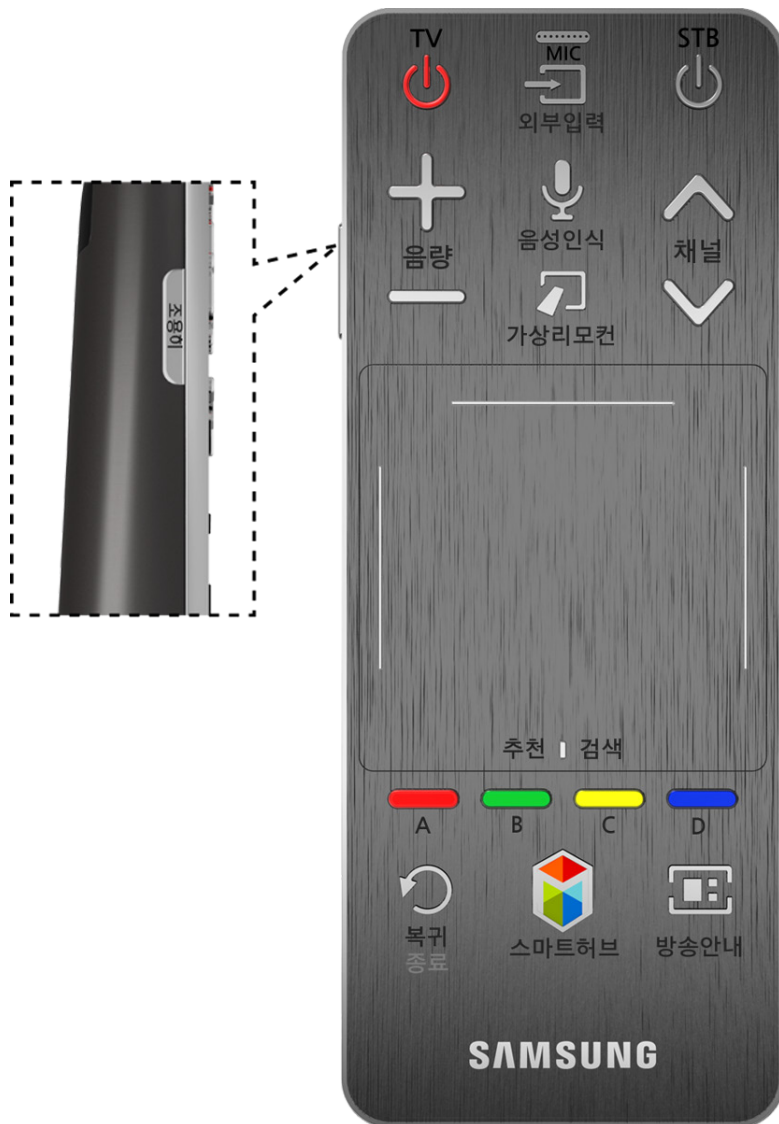
Button	Description
TV	Turns the TV on/off.
외부입력	Changes the source.
STB	Turn on and off the satellite or cable set-top box connected to the TV. For this, the Smart Touch Control must be configured as a universal remote control. Refer to "Universal Remote Control Setup" for more information.
음량	Adjusts the volume.
음성인식	Run Voice Recognition. When appears "Speak now" on the screen, say a voice command. Refer to "Voice Recognition" for more information.
조용히	Turns the TV sound on/off.
채널	Changes the channel
가상리모컨	Displays a virtual remote panel on the screen. The virtual remote panel consists of a number panel, a playback control panel, and a quick access panel. Use the touch pad to select numbers and buttons. Refer to "Virtual Remote Control" for more information.
Touch pad	Drag your finger on the touch pad as you would on the touch pad of a laptop to move the focus displayed on the screen. To select item, press the touch pad. Refer to "Using the touch pad" for more information.
A, B, C, D	The color buttons work differently, depending on the function that the TV is currently performing.
복귀	Returns to the previous menu.
스마트허브	Launch Smart Hub. While an application is running, pressing the 스마트허브 button terminates the application. Refer to "Smart Hub" for more information.
방송안내	Check the digital channel broadcasting schedule. Refer to "Guide" for more information.

Special Functions

Press and hold the following Smart Touch Control buttons to access various special functions.

Button	Description
가상리모컨	Press and hold this button. A quick access panel of virtual remote panel appears. Users can select screen buttons easily.
Touch pad	Press and hold the touch pad while watching TV to display Channel List on the screen. In addition, you can press and hold the touch pad for 2 seconds or more while an application is running to access the application's hidden features. (Not available with all applications.)
복귀	Press and hold this button to quit the current process or app.

Using the touch pad

Use the touch pad to perform various commands. Navigate to Tutorial (System > Device Manager > Smart Touch Control Settings > Tutorial) to view an on-screen guide to using the Smart Touch Control. Try Now

Dragging

Drag on the touch pad in the desired direction. Move the focus or the pointer in the direction the finger is dragging.
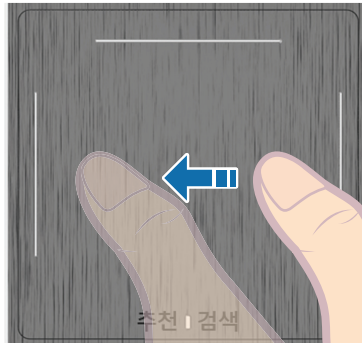
Press

Press the touch pad. This selects the focused item.
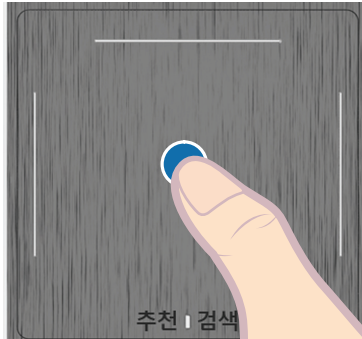
Flicking

Flick on the touch pad in the desired direction. This moves the focus or scrolls the screen based on the direction and speed of the flick.
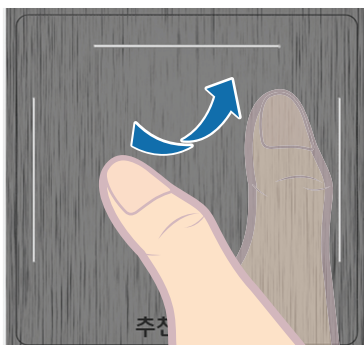
Pressing and Holding

Press and hold the touch pad while watching TV to display **Channel List** on the screen. In addition, you can press and hold the touch pad for 2 seconds or more while an application is running to access the application's hidden features. (Not available with all applications.)

Pressing and Dragging

Press the touch pad, drag and release. This moves the selected web item in a webpage or your current location on a map.
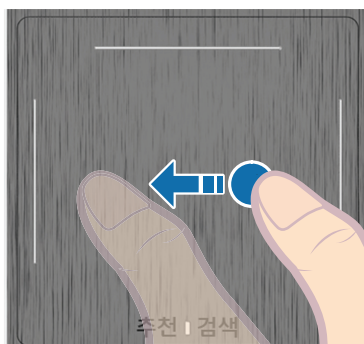
Scrolling Up/Down

Scroll up/down the line on either the left or right edge of the touch pad. This scrolls a webpage or a list up/down. This scrolling feature easily accommodates both right-handed and left-handed users.
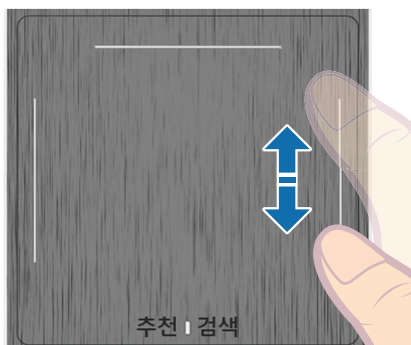
Scrolling Left/Right

Scroll left/right on the line at the top edge of the touch pad. This scrolls a horizontal webpage or the Smart Hub panel to the left/right.
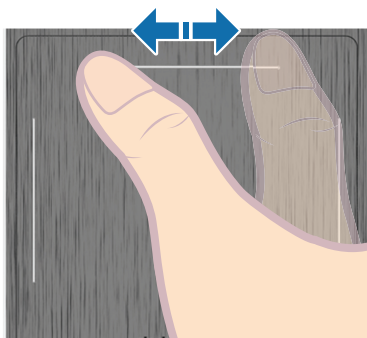
Changing Channels by Entering Numbers

While watching TV, press the protruding line on the left or right edge of the touch pad to bring up the numerical input window on the screen. Use your finger to enter the number for the channel you want to watch. The recognized number is displayed on the screen and the TV switches to the corresponding channel. However, the number you have entered may not be recognized properly by the TV. Refer to the guide below to ensure that your numerical entries are recognized accurately.
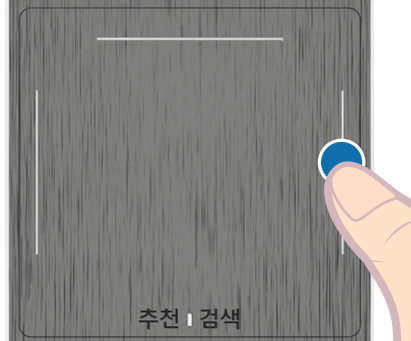
Numerical Input Guide

Refer to the diagrams below when entering numerical values. The TV may not recognize your entries if you do not follow the sequences shown below.
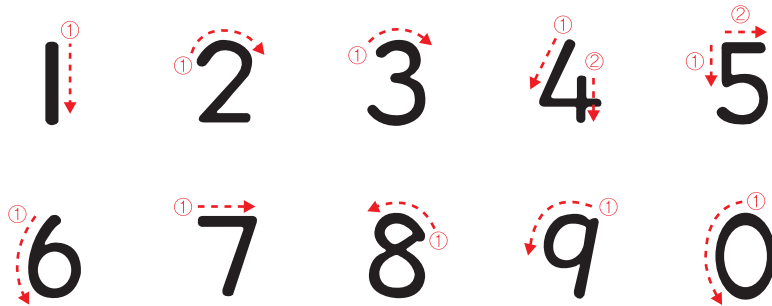
Adjusting the Touch pad

가상리모컨📲 > Menu▥ > System > Device Manager > Smart Touch Control Settings > Touch Sensitivity `Try Now`

Users can adjust the sensitivity of the Smart Touch Control's touch pad. Set Touch Sensitivity to adjust sensitivity and make it more convenient to use.

Show Status and Notification Banner

Select the 상태/알림 button on the virtual remote panel to display the Status and Notification banner at the top of the screen. Refer to the "Status and Notification" for more information.

Recommended

Press the 추천/검색 button and then select Recommended from the list displayed at the bottom of the screen. This shows the current/scheduled program and application recommendations.

Select a program that is currently airing to jump to the corresponding channel or a program that is scheduled to air to set up a Schedule Viewing or Schedule Recording setting. Refer to the "Scheduled Recommended Program Info" for more information.

Select an application to launch. Samsung Apps will launch if the selected application is not installed on the TV. Refer to the "Samsung Apps" for more information.

History

Press the 추천/검색 button and then select History from the list displayed at the bottom of the screen. This displays an interactive list of recently accessed channels, media content and applications.

Deleting History Data

가상리모컨📲 > Menu▥ > Smart Features > Remove viewing history > History

Users can delete the history information about recently viewed channels, content and applications.

Searching

Press the 추천/검색 button. The list appears at the bottom of the screen. Press the 추천/검색 button again. The keypad screen appears. Enter search criteria to search not only many apps and their contents on the TV but also the Web. For more information, refer to "Searching".

Virtual Remote Control

Press the **가상리모컨** button to display the virtual remote panel on the screen. The virtual remote panel consists of a number panel, a playback control panel, and a quick access panel. Use the touch pad to select numbers and buttons. Press and hold the **가상리모컨** button. A quick access panel of virtual remote panel appears. Users can select screen buttons easily.

Changing the Virtual Remote Control Panel

Choose the number panel, playback control panel, or quick access panel as the panel to be shown on the screen.

Use the touch pad to keep moving the focus left or right. The panel changes when the focus is moved beyond the leftmost or rightmost edge.

Use left/right scroll function on the touch pad to change the panel easily.

Change a position of the Virtual Remote Panel

Press the **가상리모컨** button on the Smart Touch Control. The virtual remote panel appears on the screen. Press and hold the touch pad for one second. Users can change a position of the virtual remote panel of the screen.

Adjusting the virtual remote panel size

가상리모컨 > **Menu** > **System** > **Device Manager** > **Smart Touch Control Settings** > **Onscreen Remote Size** `Try Now`

Users can resize the virtual remote panel. If the virtual remote panel buttons are too small, enlarge the remote panel window before using the virtual remote panel.

123 Using the Number Panel

Use the number panel to enter numbers on a keypad screen or webpage or to change the channel while watching TV. Changing the channel using the number pad leaves a record, allowing you to easily return to previous channels.

Button	Description
1~0	Gives direct access to channels.
—	Use this button to enter digital channels such as 7-1, 11-1.
이전 채널	Returns to the previous channel.

✎ The button on the virtual remote panel may vary depending on the Smart Touch Control mode.

Using the Playback Control Panel

Use the playback control panel to pause, rewind, fast forward, skip to the next file, and much more while enjoying media content.

Button	Description
▶ ⏸ ● ■ ◀◀ ▶▶ ⏮ ⏭	When watching recorded broadcast programs, or playing video, photo and music, user can control the contents using these buttons. In addition, user can control the playback of the external device.
A, B, C, D	The color buttons work differently, depending on the function that the TV is currently performing.
⤢	Use this button to quickly select frequently used functions when watching a broadcast program. In addition, it work differently, depending on the function that the TV is currently performing.
3D	Turns the 3D image on or off.
▭	Displays the status and notification banner on the screen.
⦙⦙⦙	Opens the OSD (Menu).

✎ The button on the virtual remote panel may vary depending on the Smart Touch Control mode.

⤷ Using the Quick Access Panel

Quickly access the **정보표시**, **메뉴** and **e-설명서** buttons. However, the availability of buttons may vary depending on the operating mode of the Smart Touch Control (with the TV only, as a universal remote, etc.).

Button	Description
3D	Turns the 3D image on or off.
i	Displays the information of the current digital program or contents.
▥	Opens the OSD (Menu).
▭	Displays the status and notification banner on the screen.
⤢	Use this button to quickly select frequently used functions when watching a broadcast program. In addition, it work differently, depending on the function that the TV is currently performing.
▤	Display video from an external device on the main screen and the TV as a picture-in-picture.
♥	Change the channel mode to the Added Ch. or Favorites list. However, the Favorites list can only be selected if it contains at least one favorite channel.
(●)	Users can choose which speakers to use from among available several speakers. However, the external speaker should be connected to the TV.
⛶	Adjusts the screen size.
▭	Turns the caption on or off.
🌐	Executes the Web Browser.
?	Executes the e-Manaul.

🖉 The button on the virtual remote panel may vary depending on the Smart Touch Control mode.

Universal Remote Setup

가상리모컨🗗 > **Menu**▥ > **System** > **Device Manager** > **Universal Remote Setup** (Try Now)

This TV has a universal remote control feature that lets you control cable boxes, Blu-ray players, home theaters, and other third-party external devices connected to the TV using the TV's remote control. Users can also use the Anynet+ (HDMI-CEC) function to operate Samsung external devices with your TV's remote control without any additional setup. For more information, refer to "Anynet+ (HDMI-CEC)".

✎ Some or new models of the external device connected to the TV, may not be supported from the Universal Remote Setup.

Connecting the IR EXTENDER CABLE

LED 7400, 7500, 8000, 8200, 8500 series models
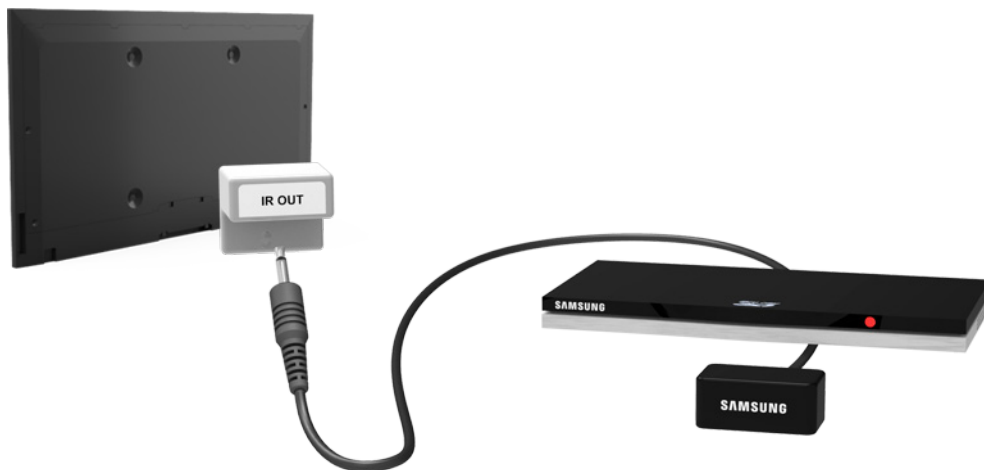
Keep a distance of 5 cm at least between the IR EXTENDER CABLE and the external device, as the illustration shows. Face the IR EXTENDER CABLE toward the external device's remote control signal receiver. However, there can' be any obstacles between the IR EXTENDER CABLE and the external device. The presence of an obstacle will interfere with the transmission of the remote control signal.

✎ The color and design of the IR EXTENDER CABLE may vary depending on the model.

UHD F9000 and S9 series models
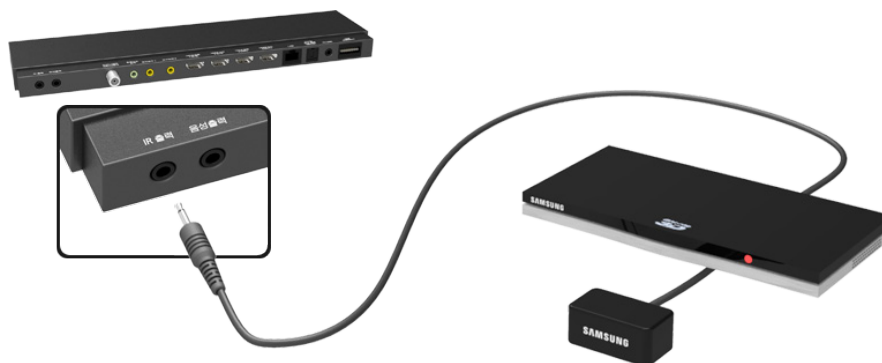
Plug the cable into the One Connect IR connector and then point the transmitter at the other end of the cable towards the external device's remote control receiver. However, there can' be any obstacles between the IR extension cable and the external device. The presence of an obstacle will interfere with the transmission of the remote control signal.

✎ The color and design of the IR EXTENDER CABLE may vary depending on the model.

Add the External Device

1. Turn on the external device you wish to set up universal remote function for and then press the 외부입력 button to bring up the Source screen.

2. Select 📠 Universal Remote Setup from the top of the screen. This initiates the universal remote setup process.

3. Follow the on-screen instructions and set up the universal remote feature using the recommended code set. If the recommended code set does not work, set up the remote control by entering the model number manually.

Using the Universal Remote Control

By configuring the universal remote control feature for a connector to which an external device is already connected, you can use the Smart Touch Control unit as a universal remote control simply by sending the input signals to the corresponding connector.

Registered External Device Management

Universal Remote Setup screen, select a registered external device.

- **Source Setup**: Change the TV's input connector that the external device is connected to.

- **Synced Power off**: Configure the external device to turn off when the TV is turned off.

- **Rename**: Rename the registered external device (up to 15 characters long).

- **Delete**: Remove the registered external device.

Entering Text using the Onscreen Keypad

An onscreen keypad appears when you need to enter text (entering the network password, logging into your Samsung account, etc.), allowing you to enter text using your remote control.

Entering Text using the QWERTY Keypad

Use the QWERTY keypad as you would a normal keyboard. Simply select the letters you want to enter them.

Additional Features

Select the ⚙ icon from the keypad to access the following features:

- **Recommended text**: Enable/disable the Recommended Text feature. Enabling the Recommended Text feature displays word recommendations based on the entered characters. To enter the word "Internet", for example, all you have to do is enter "In" and select the word "Internet" from the list of recommended words.

- **Predict Next Letter**: Enable/disable the Text Prediction feature. Enabling the Text Prediction feature eliminates the need to find and select individual character keys. However, this feature is limited to words that have previously been added to the dictionary. To enter the word "Internet", for example, select "I". A predicted word will then appear next to the I key. Simply select the predicted word to enter "Internet".

SMART Interaction

This TV features SMART Interaction, which recognizes a user's voice, actions, and face to enable TV operations without the use of a remote control. SMART Interaction makes it possible to configure settings and access features with ease. It takes approximately 15 seconds for voice and motion recognition to come online after turning on the TV.

Precautions

Face Recognition

This product saves thumbnail images of users' faces for use during the Face Login. Logging into the Smart Hub via face recognition may be less secure than logging in using an ID and password.

TV Camera Use

Under some circumstances and under certain legal conditions, the use/misuse of the TV camera may result in legal liability. There may be obligations under local privacy laws regarding the protection of individuals concerning personal data and on the free movement of such data, and possibly other laws including criminal laws, regulating camera surveillance both in the workplace and elsewhere.

By using the TV camera, users agree that it will not be used (i) in locations where cameras are generally prohibited (such as bathrooms, locker rooms or changing rooms), (ii) in any manner that will result in an invasion of a person's privacy or (iii) in violation of any applicable laws, regulations or statutes.

If you are using a camera, first check the back for a sticker.

Remove the sticker cover before adjusting the TV camera angle.

When you are no longer using the camera, rotate the lens downward and secure it in place. This prevents any inadvertent or unintentional camera operation.

Motion Control

Motion Control works by using the camera, so the user must be within the camera's recognition range. The camera's recognition range varies depending on the ambient light level and other factors. Run **Motion Control Environment Test** before using Motion Control to determine the camera's recognition range. User may experience physical fatigue when using Motion Control for extended periods.

Voice Recognition

For the best Voice Recognition experience, we recommend that you use a Smart Touch Control.

Voice Recognition is not available in all languages, dialects or regions. The performance varies depending on the language chosen, voice volume and ambient noise levels in the surrounding area.

Perform a **Voice Recognition Environment Test** prior to using Voice Recognition to test the level and clarity and the ambient sound of the surrounding area.

Voice Text Input requires the user's agreement with any third-party app's voice privacy policy and to provide Samsung with the user's MAC address and other private information.

Voice Text Input lets users enter text using voice commands instead of a mouse, keyboard or remote control. This feature is particularly useful for searching, browsing the web, and using applications that require text input.

Users must agree to the following privacy notices before using Interactive Voice Recognition:

– Voice Recognition Privacy Notice, Nuance Privacy Notice

Voice Recognition

가상리모컨🎝 > **Menu▥** > **Smart Features** > **Voice Recognition** `Try Now`

Voice Recognition	
Voice Recognition	**On**
Language	US English
Trigger Word	Hi TV
TV Voice	
Voice Recognition Environment Test	
Voice Recognition Tutorial	
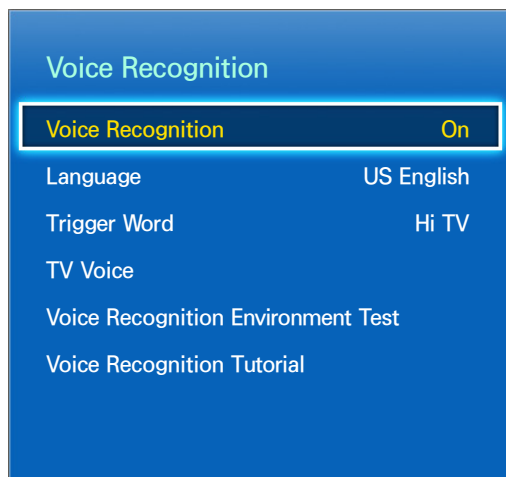
🖉 The displayed image may differ depending on the model.

Voice Recognition lets you access and control specific functions of the TV using voice commands. For the accurate recognition of voice commands, pronounce words and phrases clearly in the language selected in **Language**. The TV's clock has to be set before you use Voice Recognition. Set the **Clock** (**System** > **Time** > **Clock**).

Voice Recognition can be used in the following ways:

- Using the TV's built-in microphone (from a distance)

- Using the **음성인식** button (up close)

The **Voice Recognition** button is always active, but the Voice Recognition feature must be enabled in order to use the TV's built-in microphone.

Ambient noise can interfere with voice recognition. If this is the case, press the **음성인식** button and then say the command word/phrase 10 to 15 cm away from the microphone on the Smart Touch Control. Commands may not be recognized if you speak too softly or loudly. The optimal volume is approximately 75 ~ 80dB.

Operating Environment

Voice Recognition and the **Turn TV On** voice command should be used within 4 m of the TV.

Perform a **Voice Recognition Environment Test** prior to using Voice Recognition to test the level and clarity and the ambient sound of the surrounding area. Ambient noise can cause Voice Recognition to malfunction. (Suitable Ambient Noise Level: Less than 40 dB, *40 dB – the sound at library or residential area in the daytime.) Visit the Samsung website for a list of standard voice commands.

The voice recognition rate varies depending on the volume/tone, pronunciation, and ambient environment (TV sound and ambient noise).

Voice Recognition Environment Test

가상리모컨🗗 > **Menu🎚** > **Smart Features** > **Voice Recognition** > **Voice Recognition Environment Test** `Try Now`

This test determines how well Voice Recognition will work in the TV's current environment. This test must be performed before using Voice Recognition to make sure it functions properly.

1. Run the Voice Recognition Environment Test and stand within 4 m of the TV.

2. Select **Start** to measure the ambient noise. If the ambient noise level is suitable, the test will proceed to the next step. If this part of the test fails, remain quiet and try again.

3. This part of the test measures the volume and clarity of the user's voice. A command will appear on the TV's screen. Say the command loud and clear within 30 seconds. If the TV successfully recognizes the user's voice, the test proceeds to the next step. If this part of the test fails, try again.

4. To measure the level of echo in the surrounding area. If the echo level is suitable, the Voice Recognition Environment Test will end.

Enabling Voice Recognition

Say the trigger word or press the **음성인식** button to run Voice Recognition. Say a command. Users can use Voice Recognition to operate the TV. `Try Now`

If Voice Recognition is not working, check to see if **Voice Recognition** (**Smart Features** > **Voice Recognition** > **Voice Recognition**) has been enabled. To use Voice Recognition, **Voice Recognition** must be set to **On**.

🖉 While Voice Recognition is activated, the TV can turn on automatically due to an environmental input.

Voice Recognition Tutorial

가상리모컨⬚ > Menu▥ > Smart Features > Voice Recognition > Voice Recognition Tutorial `Try Now`

This lets you familiarize yourself with the basics of using Voice Recognition. Run **Voice Recognition Tutorial** or activate Voice Recognition and then say "**Guide me**".

Basic Voice Recognition Use

Users can use the following commands anytime while Voice Recognition is active:

- **Moving the Focus**: Say "**Focus left**", "**Focus right**", "**Focus up**", or "**Focus down**" to move the focus. However, these commands can only be used in situations when the focus can be moved.

- **Select Item**: Say "**Select**".

- **Available Voice Commands**: Say "**Guide me**". A list of basic voice commands available in the current state is shown.

- **All Voice Commands**: Say "**Guide me**" and then "**Show All**" to display a complete list of voice commands by category. Say the name of a category.

Only preset voice commands are recognized. Available voice commands may vary, depending on the software version.

Voice Recognition Settings

가상리모컨⬚ > Menu▥ > Smart Features > Voice Recognition

- **Language**: Select a language for Voice Recognition. `Try Now`

- **Trigger Word**: Designate certain commands as trigger words. Saying a trigger word activates Voice Recognition. To turn on the TV using a voice command, say "(a trigger word)+Turn On". (Example: "Hi TV, Turn On") `Try Now`

- **TV Voice**: Enable/disable the TV's voice responses to your Voice Recognition commands and choose between a male and female voice. `Try Now`

Interactive Voice Recognition Commands

Interactive Voice Recognition allows you to set up a Schedule Recording/Viewing, access VODs, search and launch applications, and execute various other commands without having to remember specific commands or keywords. Saying "Turn off the TV in 30 minutes," for example, instructs the TV to turn off after 30 minutes (Sleep Timer).

Activate Interactive Voice Recognition and say a command. See the examples below:

- When you don't know which channel a specific program is on:

  "Play ******<program title>."

- When you need information about a specific genre:

  "Which ***(genre name) shows are on today?"

- When you want to watch a program featuring a specific actor or directed by a specific director:

  "Please look up programs featuring ***(cast member). / Find me works directed by ***(director name). "

- When you want to find out more information about the program you are watching:

  "Who are the cast members in this program? / "What's the title of this program?"

- When you want program recommendations:

  "Please recommend something to watch this evening. " / "Are there any shows worth watching today?"

- When you want to operate the TV:

  "Adjust the volume to ten." / "Change to channel **."

Deactivating Voice Recognition

To deactivate Voice Recognition, say "**Close Voice Recognition**" or press the **복귀** button. Exits the Voice Recognition.

Motion Control

Motion Control

Motion Control	**On**
Animated Motion Guide	Off
Pointer Speed	Medium
Motion Control Environment Test	
Motion Control Tutorial	
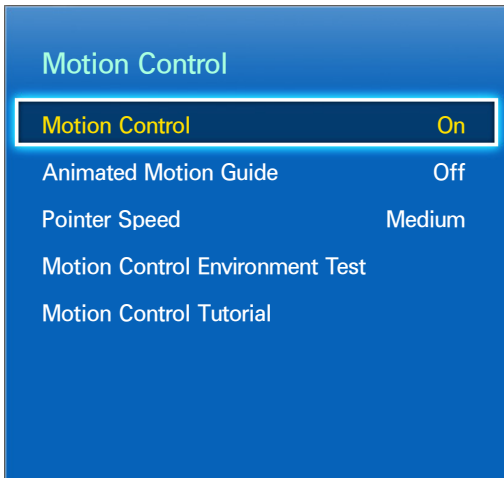
🖉 The displayed image may differ depending on the model.

Use Motion Control to change the channel, adjust the volume, move the pointer, and control other TV functions.

Some applications may not support Motion Control.

Operating Environment

Make sure that the TV camera is extended before using motion controls.

Users should be located between 1.5 m and 4 m from the camera. The actual recognition range may vary depending on the camera angle and other factors.

Motion Control relies on the TV camera and therefore will not function if the camera is pointed up or down. Adjust the camera to the correct angle. Do not point the camera directly at the sun or any other light source or obstruct its view.

In order for the camera to recognize movement, the user has to stand out from the background.

The appropriate ambient brightness is between 50 to 500 lux. (ex: 100 Lux: bathroom, 400 Lux: living room)

Avoid direct sunlight when using Motion Control.

Run Motion Control Environment Test to assess the camera's recognition range before using Motion Control.

Motion Control Environment Test

가상리모컨**⬚** > Menu**⊞** > **Smart Features** > **Motion Control** > **Motion Control Environment Test**

Run this test before using Motion Control to ensure proper functionality.

1. Run **Motion Control Environment Test** and select Start within 1.5 m and 4 m of the TV. If light reflects on the TV screen, user can be difficult to use **Motion Control**.

2. Adjust the camera angle so that you appear inside the square displayed on the screen. Once you have finished adjusting the camera angle, wave one hand slowly from left to right. Spread your hand out with the palm facing the TV. An arrow cursor appears on the screen when the TV recognizes the action. If recognition fails, try again.

Motion Control Tutorial

가상리모컨**⬚** > Menu**⊞** > **Smart Features** > **Motion Control** > **Motion Control Tutorial**

Run Motion Control and follow the instructions. This lets you familiarize yourself with the basics of using Motion Control.

Motion Control Activation

가상리모컨**⬚** > Menu**⊞** > **Smart Features** > **Motion Control** > **Motion Control** Try Now

Raise your hand with the palm facing the TV. Hold it for a moment and slowly wave your hand from side to side three or four times. When your hand is successfully recognized, the Motion Control is activated and a pointer is displayed on the screen.

✎ Dropping your hand out of the range of the TV camera deactivates Motion Control. Raise your hand within 3 seconds to reactivate it.

Using the Basic Motion Controls

The following basic motion control commands are available:

- **Pointing Navigation**: This action moves the cursor to the desired position.

- **Run / Select**: Make a fist to select an option or execute a command. Keeping your fist clenched is like holding down a remote control button.

- **Return**: Make a circle with your hand in the counterclockwise direction to return to the previous menu.

- **Turning over screens**: Hold one palm vertical, and swing to the left or right to change the Smart Hub screens.

- **Zoom in / Zoom out**: Clench two fists, and make the gap between them wider or narrower. Use these actions with webpages, maps, or photos.

- **Rotate**: Clench two fists, and rotate them clockwise or anticlockwise as if turning a steering wheel. Use these actions with photos.

- **Like**: Without activating the Motion Control, raise and hold your thumb for 2 seconds. This automatically adds Facebook's "Like" option. However, This motion is available only on the Facebook.

- **Pan**: While zoomed into the photo, make a fist and then move it left/right/up/down to pan.

- **Scrolling a webpage**: While viewing a web page, make a fist and then move it up/down to scroll the page up/down.

Motion Control Options

가상리모컨 > Menu > Smart Features > Motion Control
- **Animated Motion Guide**: Displays an animated guide when user motion is detected.

- **Pointer Speed**: Set the speed of the pointer used in Motion Control.

Motion Control Screen

The Screen Composition while Viewing TV

Launching Motion Control while watching TV displays the following icons on the screen:

Icon	Description
➕ / ➖	Adjust the volume.
🔇↔🔊	Turns the TV sound on/off.
∧ / ∨	Changes the channel.
⬛	Launch Smart Hub.
⬛	Check the recommended program information and aerial times. Select a program from the list to view detailed information about that program. Refer to the "Scheduled Recommended Program Info" for more information.
⬛	Displays the virtual remote panel. Refer to the "Virtual Remote Control" for more information.
⬛	Change the source.
⏻	Turn off the TV.

The Smart Hub Screen Composition

Launching Motion Control while using Smart Hub displays the following icons on the screen:
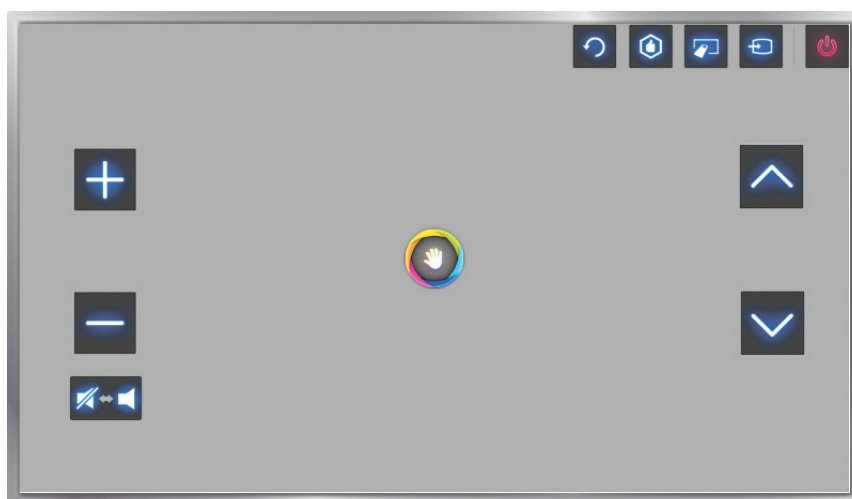
Icon	Description
+ / −	Adjust the volume. This icons are only available on the On TV screen.
🔇↔🔊	Turns the TV sound on/off. This icons are only available on the On TV screen.
∧ / ∨	Changes the channel. This icons are only available on the On TV screen.
↩	Returns to the previous menu.
◈	Check the recommended program information and aerial times. Select a program from the list to view detailed information about that program. Refer to the "Scheduled Recommended Program Info" for more information.
▱	Displays the virtual remote panel. Refer to the "Virtual Remote Control" for more information.
⊡	Change the source.
⏻	Turn off the TV.

Retrieving Icons on the Screen

When using Motion Control with Smart Hub, the icons will disappear automatically after two seconds of inactivity. To retrieve the icons, move the pointer to one of the three edges shown below (marked in blue) and then hold it there for 1 second. The icons will reappear on the screen.

Icon	Description
①	🔄 / 🛡 / ▱ / ⬊ / ⏻
②	➕ / ➖ / 🔇↔🔊
③	⌃ / ⌄

Face Recognition

Users can register their faces and log into their Smart Hub accounts through Face Recognition. One face may be registered per account. Depending on the ambient brightness level and the user's skin tone, the TV may have difficulty recognizing the user's face.

Operating Environment

Users should be located between 1.5m and 4m from the camera. The actual recognition range may vary depending on the camera angle and other factors.

The appropriate ambient brightness is between 50 to 500 lux. (ex: 100 Lux: bathroom, 400 Lux: living room)

Face Recognition can recognize up to 5 different users at a time.

The TV may have difficulty recognizing twins and people with similar faces as two different individuals.

Note the following when using Face Recognition:

- Do not cover your face with a hat, a pair of sunglasses, or your hair.

- The user's entire face must be visible to the camera. Avoid shadows over your face. Shadows prevent the camera from recognizing your face accurately.

- Keep your expression as neutral as possible. In addition, keep your mouth closed but at the same time as neutral as possible.

- User's facial expression when logging into your Samsung account must be the same as the facial expression during the registration process.

Face Registration

Users can register their faces to the Smart Hub accounts. Create a new account if you do not already have one. Refer to the "Creating a Samsung Account" section for details.

Face Registration from the Smart Hub account information screen

    🖉 Log into Smart Hub first.

1. Open the **Smart Features** 〉 **Samsung Account** 〉 **Edit Profile** menu, and select **Register Face**.

2. Read the instruction, select **OK**, and then enter the password for the Samsung account.

3. Select **Take Picture**, and the user's face appears on the screen. Keep the face to be completely in the red dotted frame. The face is successfully registered when the frame turns green. If it fails, select **Retry**.

    🖉 The user's entire face must be visible to the camera. Avoid shadows over your face. Shadows prevent the camera from recognizing your face accurately.

    🖉 Keep your expression as neutral as possible. In addition, keep your mouth closed but at the same time as neutral as possible.

    🖉 It is better to select the checkbox beside **I want to enter password as well for increased security** for higher security. With the checkbox selected, the user must enter the password when logging in using face recognition.

4. Select **Save** to finish.

Face Registration for the Smart Hub account using face recognition

1. From the Smart Hub login window, select Face recognition, and then select Start. The TV automatically recognizes the user's face.

2. Select a face to register from the list, and then select Register Face in the popup window.

3. Read the instruction from the popup window, select OK, and then select the account from the list. However, a user account appears in the list if the TV has a record of the user's account and the user is logged in.

4. Enter the password for the Samsung account. To make face recognition more accurate, scan the user's face again.

5. Select Take Picture. The user's face appears on the screen. Keep the face completely within the red round. The face is successfully registered when the round turns green. Select OK to proceed.

✎ The user's entire face must be visible to the camera. Avoid shadows over your face. Shadows prevent the camera from recognizing your face accurately.

✎ Keep your expression as neutral as possible. In addition, keep your mouth closed but at the same time as neutral as possible.

✎ Once recognition succeeds, the TV logs into the Smart Hub automatically. If the TV recognizes two or more registered faces, a list of corresponding accounts appears. Select the appropriate account. Recognition of an unregistered face prompts a warning.

Face Recognition Login

Select Face recognition, and then select Start from the login window. The TV automatically recognizes a user's face. If recognition fails, try again. If the password entry option has been enabled under Edit Profile, you need to enter your password as well in order to log into the Smart Hub.

✎ The user's entire face must be visible to the camera. Avoid shadows over your face. Shadows prevent the camera from recognizing your face accurately.

✎ Keep your expression as neutral as possible. In addition, keep your mouth closed but at the same time as neutral as possible.

✎ Once recognition succeeds, the TV logs into the Smart Hub automatically. If the TV recognizes two or more registered faces, a list of corresponding accounts appears. Select the appropriate account. Recognition of an unregistered face prompts a warning.

Using Peripheral Devices

Device Manager

Keyboard Settings

Mouse Settings

Smart Touch Control Settings

Universal Remote Setup
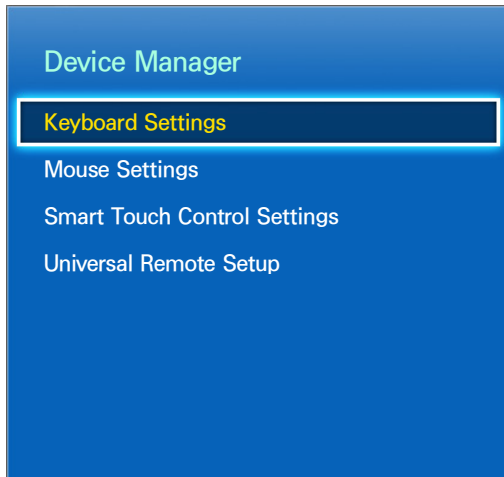
✎ The displayed image may differ depending on the model.

This TV can be controlled with a keyboard and a mouse instead of a remote control. These peripheral devices make it easier and more convenient to use the TV.

Certain models do not support USB HID class keyboards and mice.

Keyboard Connection

가상리모컨 > **Menu** > **System** > **Device Manager** > **Keyboard Settings** `Try Now`

Connect a keyboard to the TV for easier text entry. To use a USB keyboard, plug the keyboard cable into the TV's USB port. With a Bluetooth keyboard, pair it using the TV's Bluetooth function.

- **Select Keyboard**: Designate which keyboard to use. Only one keyboard can be used at a time. `Try Now`

- **Add Bluetooth Keyboard**: View a list of Bluetooth keyboards within range. Select the keyboard you wish to use.

- **Keyboard Options**: Configure the language, type and other basic keyboard settings. `Try Now`

Keyboard Use

Use the following keyboard keys to control the TV.

- Arrows key (Moves the focus), Windows (**메뉴** button), Menu (**간편메뉴** button), Enter (Selects and activates), ESC (**복귀** button), Numbers (Numbers)

- F1 (A), F2 (B), F3 (C), F4 (D), F5 ( ), F6 (**외부입력** button), F7 (**Channel List**), F8 (**조용히** button), F9/F10 (**음량** button), F11/F12 (**채널** button)

- **Page Up** / **Page Down**: Scroll a webpage up or down.

Mouse Connection

Connect a mouse to the TV and right-click on the mouse to bring up the **Go To** screen. Users can then use the screen menu, Smart Hub, and other TV functions using the mouse as you would on a computer.

To use a USB mouse, plug the mouse cord into the TV's USB port. To use a Bluetooth mouse, pair it using the TV's Bluetooth function.

- **Select Mouse**: Designate which mouse to use. Only one mouse may be used at a time. Try Now

- **Add Bluetooth Mouse**: View a list of Bluetooth mice within range. Select the mouse you wish to use.

- **Mouse Options**: Configure button assignments, pointer actions and other basic mouse settings. Try Now

Mouse Use

- **Left Button**: Selects and activates.

- **Right Button**: Brings up the Go To screen, which includes options such as Power Off, Screen Menu, Smart Hub, and Tools.

- **Mouse wheel**: Scroll a webpage up or down.

Connect a mouse to the TV and right-click on the mouse to bring up the **Go To** screen. Users can then use the screen menu, Smart Hub, and other TV functions using the mouse as you would on a computer.

TV Viewing

Broadcasting

Auto Program

Antenna   Cable

Channel List

Guide

Schedule Manager

Edit Channel

Edit Favorites
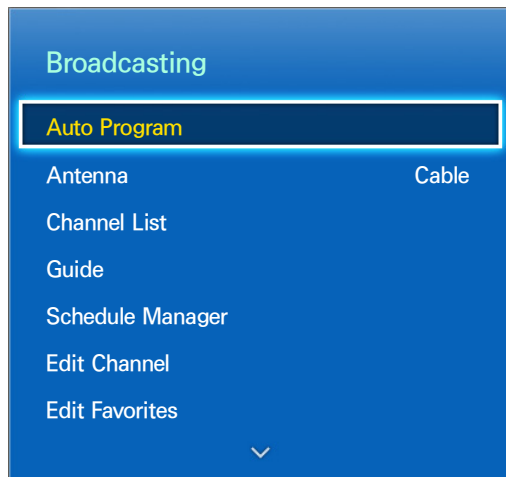
✏️ The displayed image may differ depending on the model.

Use this feature to view the program guide and program information more easily. However, these features are not available when viewing TV using a cable box or satellite receiver.

Program Info

Select the **정보표시** button on the virtual remote panel while watching TV to view information about the current program. However, Program Info is only available with digital channels. In order to use the Program Info, you must first set the TV's clock. To set the clock, navigate to **Clock** (**System** > **Time** > **Clock**). The Program Info may vary depending on the type of incoming signal and may not be available at all for certain programs.

Press the touch pad while the program information screen is shown to start recording the current program. In addition, drag left/right on the touch pad to check out other programs or press the touch pad to set up a Schedule Viewing or Schedule Recording setting for the selected program.

For more information about Schedule Viewing, refer to the "Schedule Viewing".

For more information about Schedule Viewing, refer to the "Schedule Recording".

Change the Broadcast Signal

가상리모컨 > **Menu** > **Broadcasting** > **Antenna** `Try Now`

Choose an antenna to receive digital broadcast signals from.

Guide

가상리모컨 > **Menu** > **Broadcasting** > **Guide** `Try Now` `Try Now`

View each digital channel's programming schedule. Check the programming schedules and even setup a Schedule Viewing or Schedule Recording. Press the **방송안내** button to launch the guide.

✏️ **Guide** is only available on the digital channels.

Change Channels

Select a channel from Guide to jump to that channel right away.

Recording the Current Program

Highlight a program currently being aired, and press the 정보표시 button on the virtual remote panel. The information screen appears. Select Record. Record is only available for the program currently being aired.

Change Category

Press B button to change the channel list.

Quick Search

Press A button. A popup window will open. Dragging left or right on the touch pad moves the focus two hours back or forward, enabling faster browsing of the programming schedule. However, the focus cannot be on a time prior to the current time.

Schedule Viewing

Highlight a program that has not yet aired and press the 정보표시 button on the virtual remote panel. Select Schedule Viewing from the list to set up a Schedule Viewing for that program. Schedule Viewing is only available for programs that haven't aired yet. Press the C button and navigate to the Schedule Manager screen to view a list of reserved programs.

Schedule Recording

Highlight a program that has not yet aired and press the 정보표시 button on the virtual remote panel. Select Schedule Recording from the list to set up a Schedule Recording for that program. Schedule Recording is only available for programs that haven't aired yet. Press the C button and navigate to the Schedule Manager screen to view a list of reserved programs.

Checking the Program Info

Highlight a program and press the 정보표시 button on the virtual remote panel. This displays detailed information about the highlighted program. The Program Info may vary depending on the type of incoming signal and may not be available at all for certain programs.

Channel List

Launch **Channel List** while watching TV to change channels or to check what's on other digital channels. Press and hold the touch pad for 2 seconds. The **Channel List** screen appears.

The Channel List screen icons indicate the following:

- A : An analog channel

- 💚 : A favorite channel

- 🔒 : A locked channel

Change Channels

Select a channel to jump to it right away. To quickly scroll through the list, use the channel up/down buttons. The focus moves up and down the list in one page.

Genre

Drag left on the touch pad and select Genre. Select a desired TV channel genre. Genre can only be used when the Channel List's Channel Mode is set to Added Channels. However, the Added Channels must contain genre information.

Change the Broadcast Signal

Drag right on the touch pad and select a broadcasting signal. This will change the signal source immediately.

Change the Channel List

Drag right on the touch pad and switch to the Added Ch. or Favorites list. However, the Favorites list can only be selected if it contains at least one favorite channel. If no favorite channel was previously added, select Edit Favorites and add channels from the Edit Favorites screen.

Schedule Viewing

Broadcasting

Auto Program

Antenna   Cable

Channel List

Guide

Schedule Manager

Edit Channel

Edit Favorites

⌄
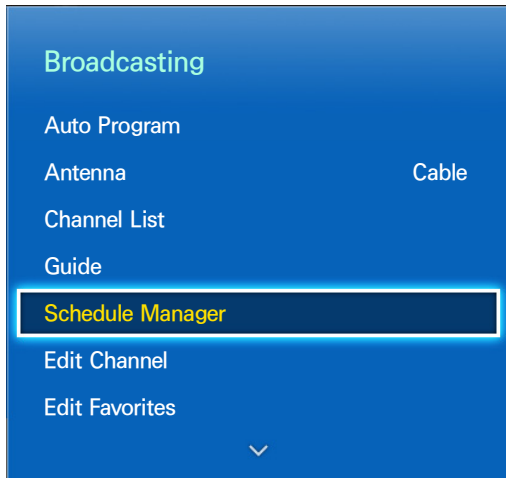
✎   The displayed image may differ depending on the model.

Configure the TV to show a specific channel or program at a specific time and date. Before scheduling TV watching, make sure that the date and time is set properly under the **System** > **Time** > **Clock** menu.

The 🕒 icon appears next to programs that have been configured for a Schedule Viewing.

Digital Channel Schedule Viewing

Schedule Viewing for programs on digital channels can be set up through the following two options:

- Guide

- Program Info

Guide

From **Guide**, select a program you wish to view.

Program Info

Select the **정보표시** button on the virtual remote panel. The Program Info screen appears. Drag left or right on the touch pad and select a program scheduled to air later, you can reserve the viewing.

Analog Channel Schedule Viewing

The Schedule Viewing function for programs on analog channels can be set up by specifying the time and date.

1. Run **Schedule Manager** and then select **Schedule**. A popup menu will appear. Select **Schedule Viewing** to proceed.

2. Specify that program's **Antenna**, **Channel**, **Repeat**, and **Start Time** and then select, **OK** to finish.

Cancel a Schedule Viewing

To cancel a Schedule Viewing for a specific program, select the program from the **Schedule Manager** screen. A popup menu will appear. Select **Delete** to cancel.

Edit Schedule List

Select an entry from the **Schedule Manager** screen and then select **Edit** from the popup menu. Edit the settings of the selected entry.

Schedule Recording

가상리모컨⌧ > **Menu**⊞ > **Broadcasting** > **Schedule Manager**

Broadcasting	
Auto Program	
Antenna	Cable
Channel List	
Guide	
Schedule Manager	
Edit Channel	
Edit Favorites	
⌄	
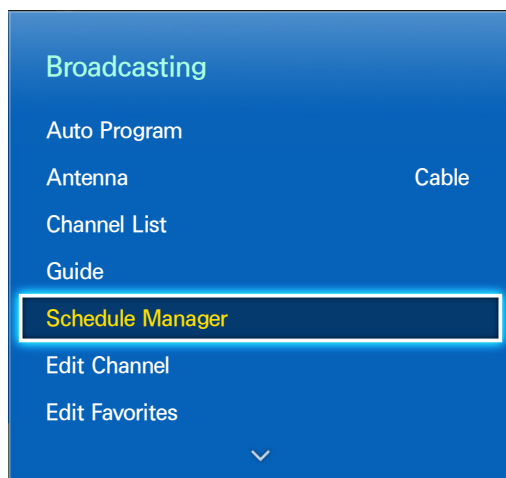
✎ The displayed image may differ depending on the model.

This TV is capable of recording current and future programs onto a USB storage device for later viewing without the use of an external recording device.

Schedule Recording is available for digital channels only. The 🕒 icon appears next to channels and programs that have been configured for a Schedule Recording.

Navigate to **Smart Hub** > **On TV** or **Photos, Videos & Music** > **Recorded TV** to view a list of recorded programs.

Precautions

- To set up a Schedule Recording, you must first set the TV's clock. Set the **Clock** from **System** > **Time** > **Clock**.

- Recordings are DRM-protected and therefore cannot be played back on a computer or on a different TV. In addition, these files cannot be played back on your TV if its video circuit is replaced.

- A USB hard drive with a speed of 5,400rpm or above is recommended. However, RAID-type USB hard drives are not supported.

- A USB memory strick is not supported.

- The total recording capacity may vary depending on the amount of available hard drive space and the recording quality level.

- **Schedule Recording** requires at least 100MB of free space on the USB storage device. Recording will stop if the available storage space falls below 50MB while recording is in progress.

- If the available storage space falls below 500MB while the Schedule Recording and Time Shift functions are in progress, only the recording will stop.

- The maximum recording time is 360 minutes.

- The TV's settings apply when playing back recordings and using the Time Shift function.

- If the input signal is changed while recording is in progress, the screen will go blank until the switch is made. Recording will resume, but ● will not be available.

- **Device Performance Test** must be performed on the USB storage device connected to the TV before a recording can be made. A Device Performance Test can be performed from the **On TV** or **Photos, Videos & Music** > **Recorded TV**. If recording is selected from **Guide** or the Program Info, USB storage device has failed the **Device Performance Test**, the TV will initiate **Device Format** and conduct **Device Performance Test** again.

- When using the recording function, the actual recording may start a second or two later than the specified time.

- If the Schedule Recording function is running at the same time as a recording is being made on an HDMI-CEC-compliant external device, the priority is given to the Schedule Recording function.

- Connecting a TV-recording USB device automatically deletes abnormally saved Time Shift and recording files.

- If **Off Timer** or **Auto Power Off** has been configured, the TV will override the setting if recording is in progress at the specified time and turn off after the recording has ended.

Dedicated Recording Device Setup

After connecting an external storage device, it must be configured as a dedicated Recorded TV device before the Schedule Recording and Timeshift features can be used.

Initial Setup

1. Press the 🎲 button to launch Smart Hub. Select Recorded TV from the bottom of the On TV or Photos, Videos & Music screen to display a list of connected devices. Select the device you wish to use. A popup window appears.

2. Select Yes. From the Device Format screen, you can format the device to a system compatible for video recording. Note that formatting the device erases all existing data.

3. Once formatting is complete, test the device to see if it supports the recording and Timeshift functions. Once testing is complete, the device is ready for use with the Schedule Recording and Timeshift functions. A test failure indicates that the selected device cannot be used as a dedicated recording device. Select a different device.

Dedicated Recording Device Management

Manage the external storage device that has been configured as the dedicated recording device.

1. Press the 🎲 button to launch Smart Hub. Select Recorded TV from the bottom of the On TV or Photos, Videos & Music screen to display a list of connected devices. Select the device you wish to use. A popup window appears.

2. Select Options from the top of the screen and then Manage Device.

The following options are available from the Manage Device screen:

- Format Device: Format the external storage device to a system compatible for video recording.

- Check Device: Check if the external storage device uses a system compatible for video recording.

- Device Performance Test: Test the external storage device to see if it supports the recording and Timeshift functions.

- Default Recording Device: If there are multiple external storage devices connected to the TV, you can designate a default device to use with the recording and Timeshift functions.

Program Recording

The following options are available for program recording:

- Instant Recording

- Guide

- Program Info

- Specified Time and Date

Instant Recording

To record the program currently being aired, select the ● button on the virtual remote panel, and then set a desired recording duration.

Guide

From **Guide**, select a program currently being aired, select the **정보표시** button on the virtual remote panel. Users can record the selected program. Alternatively, when you select a program scheduled to air later, you can reserve the recording. This function is only available with digital channels.

Program Info

Select the **정보표시** button on the virtual remote panel. The Program Info screen appears.

From the Program Info screen, press the touch pad, and then you can record the program. Alternatively, drag left or right on the touch pad and select a program scheduled to air later, you can reserve the recording. This function is only available with digital channels.

Specified Time and Date

1. Run **Schedule Manager** (**Broadcasting** > **Schedule Manager**) and then select **Schedule**. A popup menu will appear. Select **Schedule Recording** to proceed.

2. Specify the program's **Antenna**, **Channel**, **Repeat**, **Start Time**, and **End Time** and then select **OK** to finish.

Cancel the Schedule Recording function

To cancel a Schedule Recording for a specific program, select the program from the Schedule Manager screen. A popup menu will appear. Select Delete to cancel.

Edit Schedule List

Select an entry from the Schedule Manager screen and then select Edit from the popup menu. Edit the settings of the selected entry.

Recorded Program Playback

Press the 🔳 button to launch Smart Hub. Select Recorded TV from the bottom of the On TV or Photos, Videos & Music screen. Select the external storage device containing the recorded programs to display a list of available recordings. Try Now

Select a program from the list or select the ► button on the virtual remote panel to play the selected program. Use the remote control or onscreen control buttons while playing the files. Press touch pad to show the on-screen control buttons. Press the 복귀 button to hide them.

To exit, select the ■ button on the virtual remote panel or press the 복귀 button.

Changing the Viewing Mode

Select View at the top of the list and then select a viewing mode. The list will be sorted in the order corresponding to the selected viewing mode.

Filtered View

Select Filter at the top of the list and then select a filter. Only the recorded programs corresponding to the selected filter will be listed.

Playlist Creation

From the Options list at the top of the screen, select Play Selected. Select the programs you wish to play and then select Play. Users can create a playlist. However, if the list is in Folder view mode, you can only select recordings from within the same folder. To add programs from other folders to the playlist, change the viewing mode.

Recording Lock/Unlock

From the Options list at the top of the screen, select Lock. Select the programs you wish to lock and then select Lock. This locks all the selected programs.

To unlock a program, go to the Options list at the top of the screen and select Unlock. Select the programs you wish to unlock and select Unlock. This unlocks all selected programs.

Deleting Saved Programs

From the Options list at the top of the screen, select Delete. Select all the programs you wish to delete and select Delete. This deletes all selected programs.

Rename

From the Options list at the top of the screen, select Rename. Select the program you wish to rename. Enter the new name using the keypad and then select Done to finish renaming the program. The new name can be up to 29 characters long.

Device Management

Designate a device connected to the TV as a dedicated recording device. For more information, refer to "Dedicated Recording Device Management".

Playing a Different Program

- Select the ◄◄ / ►►| on-screen button.

- Select the Search on-screen button and then select Search Titles.

Program Scan

- Drag left/right on the touch pad. Scan 10 seconds backward or forward.

- Select the ◄◄ / ►► button on the virtual remote panel. Users can change the playback speed by a factor of up to 7. To restore normal playback speed, select the ► button on the virtual remote panel. Alternatively, select the ►► button on the virtual remote panel while paused to reduce the playback speed (1/8, 1/4, 1/2). Slow playback doesn't support audio and is available in the forward direction only.

- Select the ‖ button on the virtual remote panel to pause the screen and then select the ‖ button on the virtual remote panel to scan through the paused video in 1-frame increments. Audio is not supported while the video is paused.

- Select the Search on-screen button and then select Search Scene. You can play the file from a particular scene. However, this function is not available with the following.

    - Scene thumbnails are not created.

    - Only sound is recorded.

    - The recording time is under 60 seconds.

- Select the Search on-screen button and then select Search Time bar. This lets you skip to the specified time frame.

- Select the ◄◄ on-screen button. This plays the video from the beginning.

Additional Recorded Program Playback Settings

- **Repeat**: Select the Repeat Mode on-screen button. This changes the repeat mode. Repeat One repeats the current program only. Repeat All repeats all programs contained in the folder.

- **Picture Size**: Select the Picture Size on-screen button and then select the picture size.

- **Receiver**: Select the Receiver on-screen button and then power on the receiver

- **Picture Mode**: Select the Settings on-screen button and then select Picture Mode. Select the Picture Mode setting.

- **Sound Mode**: Select the Settings on-screen button and then select Sound Mode. Select the Sound Mode setting.

- **Multi-Track Sound**: Select the Settings on-screen button and then select Multi-Track Sound. User can change an audio language. However, this option is only available with the recorded program that support multiple audio formats.

- **Information**: Select the Settings on-screen button and then select Information to view detailed information about the recorded program.

Time Shift

This TV offers a Time Shift function, a feature that lets you pause and rewind live TV as you would with a DVD. However, Time Shift is only available for digital channels. In addition, activating the Time Shift function disables the Broadcasting menu.

Precautions

- Recordings are DRM-protected and therefore cannot be played back on a computer or on a different TV. In addition, these files cannot be played back on your TV if its video circuit is replaced.

- The maximum amount of time available for the Time Shift function is 90 minutes.

- the Time Shift function is not available for locked channels.

- A USB hard drive with a speed of 5,400rpm or above is recommended. However, RAID-type USB hard drives are not supported.

- A USB memory strick is not supported.

- Device Performance Test must be performed on the USB storage device connected to the TV before the Time Shift function can be used. Device Performance Test can be initiated from Smart Hub > On TV or Photos, Videos & Music > Recorded TV.

- The total recording capacity may vary depending on the amount of available hard drive space and the recording quality level.

- The TV's settings apply when playing back recordings and using the Time Shift function.

- Connecting a TV-recording USB device automatically deletes abnormally saved Time Shift and recording files.

- The Time Shift function may terminate automatically once it reaches its maximum capacity.

- The Time Shift function requires at least 1.5GB of free space available on the USB storage device.

- Launching an application, switching to an analog channel, and otherwise changing the TV to a state that does not support the Time Shift function automatically terminates the Time Shift function. The Time Shift operation will resume if the TV is changed back to a digital channel again.

Activating the Time Shift function

Press ► while watching TV to activate the Time Shift function. The Time Shift Progress Bar appears on the screen.

The Time Shift control buttons and functions are as follows:

- ◄◄ / ►►: Users can change the playback speed by a factor of up to 7. To restore normal playback speed, select the ► button on the virtual remote panel.

- Drag left/right on the touch pad. Scan 10 seconds backward or forward.

- ■: Press while viewing a Time Shifted segment to return to real time. Press while in real-time viewing mode to deactivate the Time Shift function.

- ‖: Pause the screen. Select the ‖ button on the virtual remote panel while in the paused state to scan one paused frame at a time. Audio is not available when the TV is paused in Time Shift mode, and frame-by-frame scanning is only available in the forward direction. Select the ◄◄ / ►► button on the virtual remote panel while in the paused state to resume playback at 1/4th the normal speed.

3D TV

가상리모컨⬚ > Menu⬚ > Picture > 3D (Try Now)
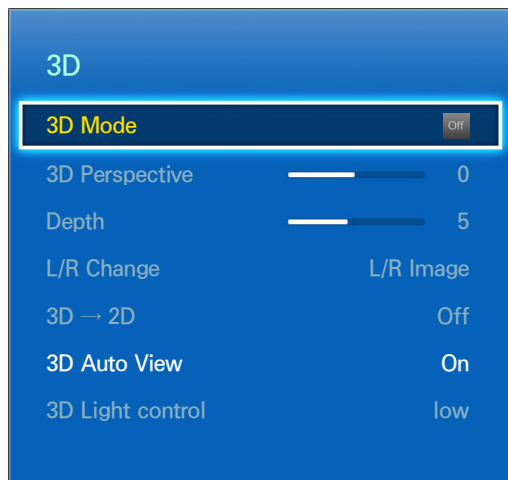
🖉   The displayed image may differ depending on the model.

This TV is 3D-enabled. For the best 3D viewing experience, users must wear Samsung's 3D Active Glasses.

The ideal viewing distance is three times or more the height of the screen. We also recommend sitting with your eyes level with the screen.

Precautions

Carefully read the health and safety information concerning 3D viewing before viewing the TV in 3D. Refer to the "3D Precautions", for more information.

Restrictions

There are several restrictions when using 3D TV:

- Running the Smart Hub automatically deactivates 3D viewing.

- PIP cannot be used.

- Certain Picture options are disabled.

- IR Type Samsung 3D Active Glasses and third-party 3D glasses are not supported.

Tips

- The left and right 3D images may initially overlap when the TV is turned on. It takes a moment for the display to optimize and the overlapping to go away.

- The 3D Active Glasses may not work properly if there is another 3D product or electronic device turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.

- Whether or not 3D video is displayed in true HD is usually determined by the quality of the content.

Activating 3D Mode

가상리모컨 🗗 > Menu 🎛 > Picture > 3D > 3D Mode ⟨Try Now⟩

Choose a 3D mode according to the input signal. Available 3D modes may vary depending on the input signal.

- Off Off: Deactivates 3D viewing.

- Normal: Converts normal images to 3D images. Some formats do not support this mode.

- L/R: Splits a single image into left and right overlapping images to create the 3D effect.

- T/B: Splits a single image into top and bottom overlapping images to create the 3D effect.

- Horizontal Line: Switches between left and right images one horizontal line at a time. This mode is not supported on the UHD F9000 and S9 series models.

- Vertical Line: Switches between left and right images one vertical line at a time. This mode is not supported on the UHD F9000 and S9 series models.

- Pixel: Switches between left and right images one pixel at a time. This mode is not supported on the UHD F9000 and S9 series models.

- Frame: Switches between left and right images one frame at a time. This mode is not supported on the UHD F9000 and S9 series models.

🖉 (Horizontal Line), (Vertical Line), and (Pixel) can only be selected when the computer's resolution is set to 1920x1080 or the computer is connected to the TV via an HDMI-DVI cable.

🖉 (Frame) can only be selected when the computer's resolution is set to 1920x1080 and the frequency to 60Hz.

Resolutions supported by the TV may vary, depending on the 3D mode. For details, see "Supported 3D Resolutions".

Setting 3D Effects

There are several adjustments that can be made to make 3D content more enjoyable.

- **3D Perspective**: Adjusts the 3D perspective. `Try Now`

- **Depth**: Adjusts the 3D depth. This function is not available if 3D mode is set to (L/R) or (T/B). `Try Now`

- **L/R Change**: Swaps the left and right pictures. `Try Now`

- **3D → 2D**: Converts 3D images to normal images. This function is not available if 3D mode is set to (Normal) or `Off` (Off). `Try Now`

- **3D Auto View**: Setting **3D Auto View** to On switches the TV to 3D automatically. Setting **3D Auto View** to **Message Notice** brings up a message screen when the TV receives a 3D signal. If some applications are running, The TV can not switch 3D. In this case, close the application and then watch the 3D. This function is available for LED 7400, 7500, 8000, 8200, 8500 series models only.

- **3D Light control**: Adjust the brightness of 3D images. If the screen is too dark, select **High**. This function is available for LED 7400, 7500, 8000, 8200, 8500 series models only.

3D Channel Viewing

가상리모컨▱ > **Menu**▥ > **Broadcastning** > **View 3D Channels** `Try Now`

Block or allow 3D channels. If 3D channels aren't shown, configure from **Auto Program** (**Broadcasting** > **Auto Program**).

A message will appear on the screen if the program you are watching supports 3D. Follow the onscreen instructions to view the program in 3D.

Selecting **Off** hides 3D channels from the channel lists and **Guide**.

PIP

Picture	
3D	
PIP	**Off**
Advanced Settings	
Picture Options	
Picture Off	
Apply Picture Mode	All Sources
Reset Picture	
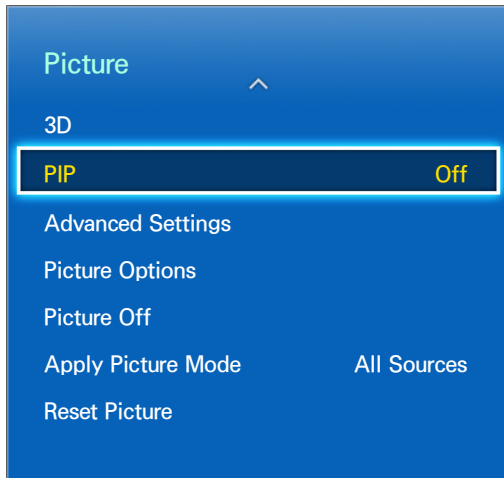
✎ The displayed image may differ depending on the model.

Display video from an external device on the main screen and the TV as a picture-in-picture. For example, you can display a Blu-ray movie on the main screen and simultaneously watch TV as a picture-in-picture. PIP is not available while the Smart Hub or 3D TV is active. Turning off the TV while PIP is active automatically deactivates PIP.

- **PIP**: Activates/deactivates PIP.

- **Channel**: Selects the PIP sub-picture channel.

- **Size**: Selects the PIP sub-picture size.

- **Position**: Selects the PIP sub-picture position.

- **Sound Select**: Selects the audio source.

✎ Playing a game or using the karaoke feature on the main screen can result in a lower PIP picture quality.

✎ To enjoy PIP, the main screen's source must be Component or HDMI and the input resolution must be less than FHD. The sub screen supports digital channels only.

Analog Screen Calibration

```
┌─────────────────────────────┐
│  Channel Settings           │
│  ┌───────────────────────┐  │
│  │ Fine Tune             │  │
│  └───────────────────────┘  │
│                             │
│                             │
│                             │
│                             │
└─────────────────────────────┘
```
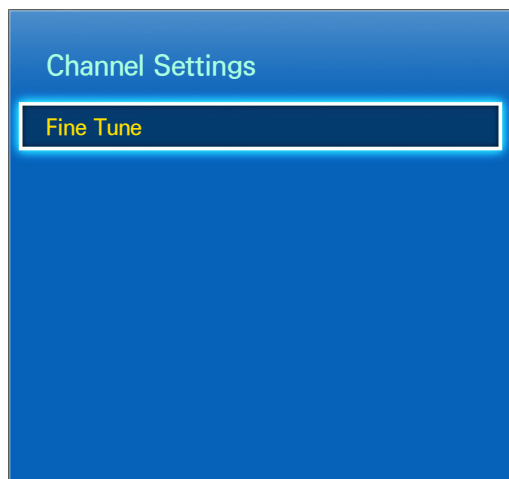
  ✎   The displayed image may differ depending on the model.

Analog pictures can become shaky and full of noise. If this happens, you can fine tune the signal and/or reduce noise to clear up the picture.

Fine Tune

가상리모컨🖵 > Menu🎛 > Broadcasting > Channel Settings > Fine Tune Try Now

Clear up shaky pictures. Fine tune the pictures until they are clear and then select Save or Close. Select Reset to reset the Fine Tune operation. This option is only available for analog broadcasts.

Broadcast Audio Options

Audio Options

Preferred Language	Korean
Auto Stereo	Manual
Multi-Track Sound	Mono
Visual Impaired	Off
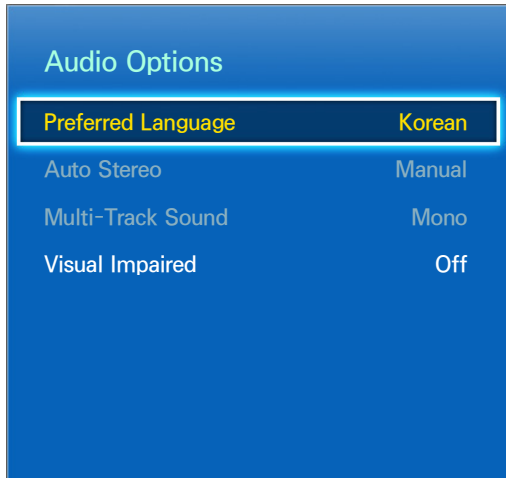
✎ The displayed image may differ depending on the model.

Configure the program's audio language. Using this option is different for analog and digital channels.

Digital Broadcast Audio Options

- **Preferred Language**: Digital broadcasts are embedded with audio signals in multiple languages which users can choose from. Users do not need to manually configure digital broadcasts that support the designated language. If the designated language is not supported, the default audio language chosen by the TV station will be heard. **Try Now**

- **Visual Impaired**: Activate the audio guide for the visually impaired. This is only available with broadcasts that provide this service. **Try Now**

Analog Broadcast Audio Options

- **Auto Stereo**: Choose between stereo and mono. **Auto** lets the TV automatically choose the audio mode for each channel and **Manual** sets audio for all channels to mono. Try **Auto** first and then switch to **Manual** if the audio quality is unsatisfactory. **Try Now**

- **Multi-Track Sound**: Configure the audio for the current broadcast. **Multi-Track Sound** can be set to mono or stereo, depending on the broadcast signal or program. Although user set this option to stereo, if the broadcast signal or program is not supported a stereo, this option will be set to mono automatically. **Try Now**

✎ Select the **정보표시** button on the virtual remote panel to view the current broadcast's audio signal information.

✎ Select the **간편메뉴** button on the virtual remote panel while watching TV to access and configure the **Multi-Track Sound** setting.

Subtitles

가상리모컨🗗 > Menu🎛 > Broadcasting > Caption (Try Now)

Caption

Caption	On
• Caption Mode	Default
• Digital Caption Options	
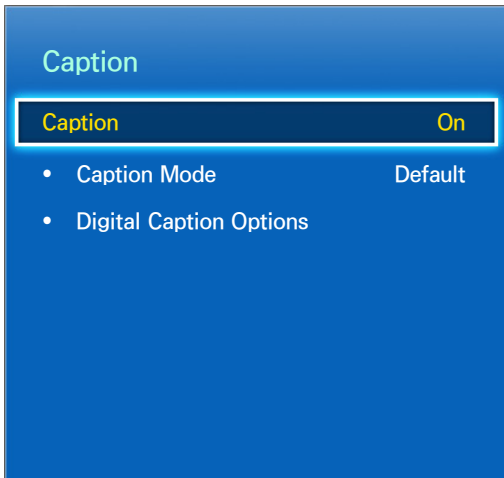
✎ The displayed image may differ depending on the model.

View subtitles along with subtitle-enabled digital and analog broadcasts.

Show Subtitles

가상리모컨🗗 > Menu🎛 > Broadcasting > Caption > Caption (Try Now)

Show subtitles. Subtitles will be displayed when you choose a broadcast that supports subtitles.

✎ DVD Subtitles are only available when connected to an external input connector.

Subtitle Options

가상리모컨🗗 > Menu🎛 > Broadcasting > Caption > Caption Mode (Try Now)

Select a subtitle mode. The list of modes may vary depending on the broadcast.

- Default / English / Korean: Select which analog broadcast subtitles to display. Watching a broadcast with subtitles in English with this option set to Korean may result in corrupted characters. In this case, change the option to English.

- Default / Service1 ~ Service6: Select which digital broadcast subtitles to display. Only Service1 is supported in South Korea. Please choose Default or Service1.

Default supports Korean subtitles.

Subtitle Display Options

가상리모컨 > Menu > Broadcasting > Caption > Digital Caption Options Try Now

Specify the foreground and background settings.

- **Size**: Choose the subtitle size from the list. This option is not available for analog channels.

- **Font Color**: Choose a foreground color from the list.

- **Background Color**: Choose a background color from the list.

- **Font Opacity**: Choose a foreground opacity level from the list.

- **Background Opacity**: Choose a background opacity level from the list.

- **Return to Default**: Restores all subtitle display options to the **Default** settings. **Default** applies settings chosen by the TV station.

🖉 The foreground and background color and opacity settings cannot be the same.

Basic Picture Settings

가상리모컨 ▣ > Menu▥ > Picture

Picture

Picture	
Picture Mode	Standard
• Backlight	12
• Contrast	100
• Brightness	45
• Sharpness	50
• Color	50
• Tint (G/R) G50	R50
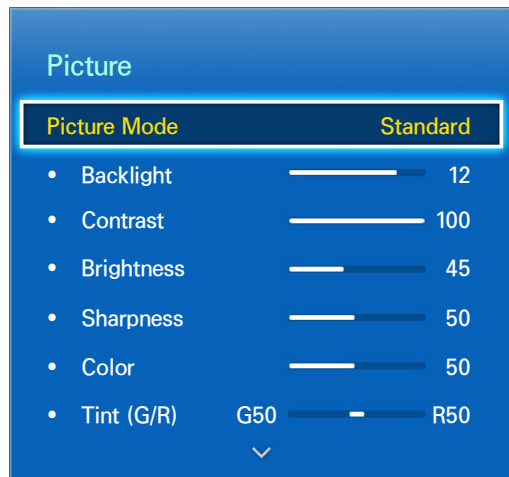
⌕ The displayed image may differ depending on the model.

The basic image settings alter the look and feel of the image displayed on the TV screen.

Changing the Picture Mode

가상리모컨 ▣ > Menu▥ > Picture > Picture Mode (Try Now)

Choose the optimal picture mode for your TV viewing conditions. When connected to a computer via an HDMI-to-DVI cable, only the Standard and Entertain modes can be chosen.

- **Dynamic**: This increases the brightness of the screen. It is most suitable for bright environments.

- **Standard**: This is the default mode.

- **Natural**: This is useful for reducing eye strain.

- **Movie**: Darkens the screen and reduces glare. Appropriate for darkened rooms, for watching movies, and when experiencing eye fatigue.

- **Entertain**: Sharpens images for a more dynamic viewing experience. This mode is only available when connected to a computer via an HDMI-to-DVI cable.

Picture Quality

Choose a **Picture Mode** and then select the following options to display a slide bar that allows the corresponding setting to be adjusted. Adjust the value by dragging left/right on the touch pad and change the setting by dragging up/down on the touch pad. Adjusted values are applied to the current source and will remain in effect the next time the source is selected. The **Color** and **Tint (G/R)** adjustment options are not available when connected to a computer via an HDMI-to-DVI cable..

- **Backlight**: Adjusts the brightness of individual pixels. Decreasing the brightness reduces power consumption. `Try Now`

- **Contrast**: Adjusts the screen contrast. `Try Now`

- **Brightness**: Adjusts the overall brightness. `Try Now`

- **Sharpness**: Sharpens or dulls the edges of objects. `Try Now`

- **Color**: Adjusts the overall color saturation. `Try Now`

- **Tint (G/R)**: Adjusts the ratio of green to red. Increase the green value to saturate the greens and the red value to saturate the reds. `Try Now`

Applying the Current Picture Quality Setting to Another Input

Users can apply the picture quality setting that you configured for the TV to all external devices connected to the TV.

To apply the setting to all external devices connected to the TV, select **All Sources**. To only apply the setting to the current input, select **Current Source**.

Picture Size

Most TV programs and videos are displayed in full screen, but some programs and videos don't fit the screen. Users can change the picture size for such programs and videos. However, the available size options may differ, depending on the video source. For details, see "Picture Size and Input Signal".

- **16:9**: Set the picture to the 16:9 wide-screen format.

- **Zoom1**: Magnifies the 16:9 screen size to up and down. A magnified picture can be moved up and down.

- **Zoom2**: Magnifies the Zoom1 screen size to up and down. A magnified picture can be moved up and down.

- **Wide Fit**: Enlarge the aspect ratio of the picture so it fits the entire screen. Enjoy 4:3 images as undistorted 16:9 images.

- **4:3**: Sets the picture to basic 4:3 mode.

- **Screen Fit**: Displays the full image without any cutoff.

- **Smart View 1**: Reduces a 16:9 picture by 50%.

- **Smart View 2**: Reduces a 16:9 picture by 25%.

✎ The **Picture Size** option is not available with images in the UHD resolution because the supported screen size is fixed.

Screen Position

가상리모컨🔲 > Menu🔳 > Picture > Picture Size > Position (Try Now)

The screen position can be adjusted if **Picture Size** is set to **Zoom1**, **Zoom2**, **Wide Fit**, or **Screen Fit**. In DTV mode, the screen position cannot be adjusted if the **Picture Size** is set to **Screen Fit**.

1. To adjust the screen position, select **Position** and then **Position** from the popup window.

2. Drag on the touch pad to move the screen. Once done, select **Position** and then **Close**. Select **Reset** to reset the screen position.

✎ The **Position** option is not available with images in the UHD resolution because the supported screen size is fixed.

Picture Off

가상리모컨🔲 > Menu🔳 > Picture > Picture Off (Try Now)

Turns off the screen and plays audio only. To turn the screen back on, press any button except **TV** and **음량** buttons.

Reset Image Settings

가상리모컨🔲 > Menu🔳 > Picture > Reset Picture (Try Now)

Reset all image settings for the current **Picture Mode** to the default settings. This does not affect other Picture Modes.

Advanced Settings

Advanced Settings

Dynamic Contrast	**Medium**
Black Tone	Off
Flesh Tone	0
RGB Only Mode	Off
Color Space	Native
White Balance	
10p White Balance	Off
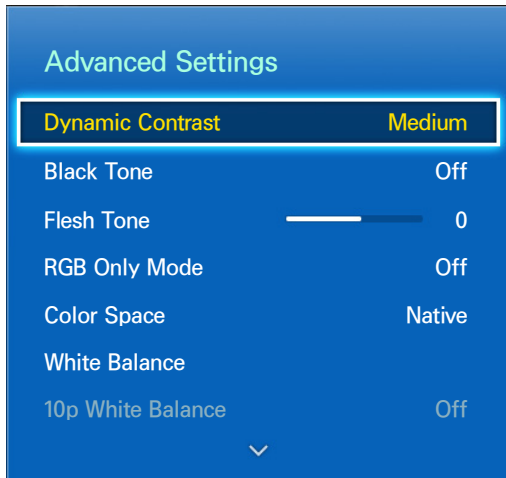
✎ The displayed image may differ depending on the model.

Use **Advanced Settings** to fine-tune how images are displayed on the TV screen. The **Advanced Settings** option is only available when **Picture Mode** is set to **Standard** or **Movie**. When the TV is connected to a computer via an HDMI-DVI cable, only **White Balance** and **Gamma** can be adjusted.

- **Dynamic Contrast**: Automatically adjusts the screen contrast. Use this option to achieve the optimal contrast setting. (Try Now)

- **Black Tone**: Adjusts the black color depth. (Try Now)

- **Flesh Tone**: Adjusts the amount of red in skin-color tones. (Try Now)

- **RGB Only Mode**: Adjusts the red, green, and blue levels individually. (Try Now)

- **Color Space**: Adjusts the range of colors that can be expressed on screen. **Auto** automatically adjusts the color space depending on the input signal, and **Native** applies a range that is wider than the input signal. **Custom** allow the user to manually adjust a range of the desired color in the colors of the input signal. (Try Now)

- **White Balance**: Adjusts the color temperature of the picture to make white objects look white and the overall picture appear natural. Adjust each color's luminosity with the offset menu and the brightness with the gain menu. To restore the default values, select **Reset**. (Try Now)

- **10p White Balance**: Adjusts the white balance by adjusting the brightness of the red, green, and blue elements in 10-point intervals. This option is only available when **Picture Mode** is set to **Movie** and may not be supported by some external devices. `Try Now`

- **Gamma**: Adjusts the primary color intensity. `Try Now`

- **Expert Pattern**: Displays picture calibration patterns on the screen without using a separate pattern generator or filter. **Pattern1** is used to calibrate the contrast, and **Pattern2** is used for calibrating the color and color saturation. If the screen menu disappears or a different menu is activated while the screen is being calibrated, this option will save the changes up to that point and automatically deactivate that menu. This feature is enabled in Component and HDMI modes only. `Try Now`

- **Motion Lighting**: Adjusts the picture brightness depending on the on-screen movements for reduced power consumption. This feature is only available when **Picture Mode** is set to **Standard** and is not available in 3D mode. In addition, adjusting **Contrast** or **Brightness** automatically deactivates this feature. `Try Now`

Picture Options

가상리모컨🔲 > Menu🎚 > Picture > Picture Options `Try Now`

Picture Options	
Color Tone	Standard
Digital Clean View	Auto
MPEG Noise Filter	Auto
HDMI Black Level	Low
Film Mode	Off
Auto Motion Plus	Standard
Cinema Black	Off

✎ The displayed image may differ depending on the model.

Use **Picture Options** to further improve the picture quality. When connected to a computer via an HDMI-to-DVI cable, users can only change **Color Tone**.

- **Color Tone**: Adjusts the color tone. The setting is applied on an individual **Picture Mode** basis. When **Picture Mode** is changed, the corresponding setting will apply automatically. If **Picture Mode** is set to **Dynamic**, users can only choose between **Cool** and **Standard**. `Try Now`

- **Digital Clean View**: Reduces static and ghosting caused by weak signals. This feature is only available for ATV channels. Selecting **Auto Visualization** displays the signal strength on the screen. Green indicates the best possible signal. `Try Now`

- **MPEG Noise Filter**: Reduces MPEG noise and improves the video quality. `Try Now`

- **HDMI Black Level**: This is available only for video input via an HDMI cable. Use this to reduce image retention that may occur when watching video from an external device. Choose one of the black levels. `Try Now`

- **Film Mode**: Optimizes the picture quality for movies. Select the mode for watching movies. This feature is only available when watching TV or when the input signal is AV, Component (480i, 1080i), or HDMI (1080i). `Try Now`

- **Auto Motion Plus**: Removes blurring and shudders from scenes with rapid movement. Select **Custom** to adjust the Blur Reduction and Judder Reduction levels manually. Select **Demo** to split the screen into two and verify the effects of Auto Motion Plus. `Try Now`

  🖉 While **Auto Motion Plus** is in effect, select the **정보표시** button on the virtual remote panel to display the resolution and frequency of the incoming video signal (60Hz). The displayed frequency is not the same as the frequency of the picture the TV is displaying when Auto Motion Plus is activated.

- **Cinema Black**: In Movie mode, this feature dims the top and bottom areas of the video image to provide a more immersive viewing experience. This function is available for LED 7400, 7500, 8000, 8200, 8500 series models only.

- **Smart LED**: This controls the brightness of individual areas on screen to maximum contrast automatically. This function is not supported depending on the model.

Basic Sound Settings

가상리모컨 > Menu > Sound

Sound

Sound Mode	Standard
Sound Effect	
3D Audio	Low
Speaker Settings	
Digital Audio Out	
Sound Customizer	
Reset Sound	
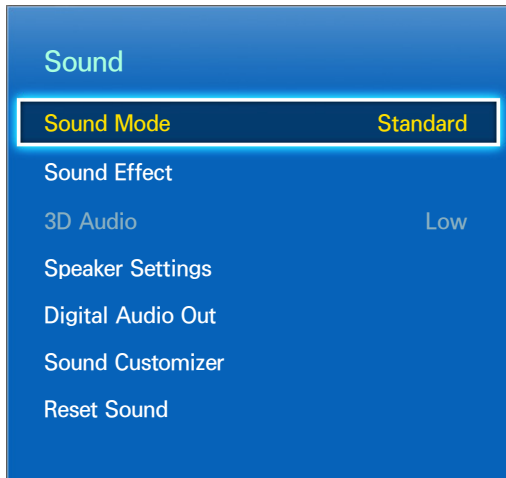
✎ The displayed image may differ depending on the model.

Use the Sound Settings to change the sound mode, enable/disable surround sound, adjust the equalizer, and optimize the TV's sound.

Changing the Sound Mode

가상리모컨 > Menu > Sound > Sound Mode Try Now

Sound modes make adjustments to the sound output. However, Sound Modes are not available when using external speakers only.

- **Standard**: This is the normal sound mode.

- **Music**: This mode emphasizes normal music instead of voices.

- **Movie**: This mode is calibrated to provide the best sound for movies.

- **Clear Voice**: This mode emphasizes voices.

- **Amplify**: This increases the overall intensity of high-frequency sounds for a better listening experience. It is designed for hearing-impaired listeners.

Adjusting the Sound Settings

가상리모컨📺 > Menu▥ > Sound > Sound Effect (Try Now)

Use sound effects to alter how the TV projects sound. These options are available only when Speaker Select is set to TV Speaker and Sound Mode is set to Standard.

- **Virtual Surround**: Produces sound that will make you feel like you are sitting in a movie theater or concert hall. (Try Now)

- **Dialog Clarity**: Increases the voice intensity to make dialog clearer. (Try Now)

- **Equalizer**: Adjusts the speaker balance and makes bandwidth adjustments. Select Reset to reset the settings. (Try Now)

Auto Volume

가상리모컨📺 > Menu▥ > Sound > Speaker Settings > Auto Volume (Try Now)

Because each station has its own set of broadcasting conditions, the volume may fluctuate as the channel changes. The Auto Volume function automatically adjusts the volume of a channel by lowering or raising the sound output. Normal applies a normal level of volume adjustment, whereas Night applies a slightly lower volume level than Normal and is ideal for nighttime TV viewing. To use the volume control of a connected source device, deactivate the Auto Volume function. When using the Auto Volume function with a source device, the device's volume control may not function properly.

TV Installation Type

가상리모컨📺 > Menu▥ > Sound > Speaker Settings > TV Installation Type (Try Now)

Select the TV's installation type. Choose between Wall Mount and Stand to optimize the TV's sound automatically.

Resetting the Sound

가상리모컨📺 > Menu▥ > Sound > Reset Sound (Try Now)

This resets all sound settings to the factory defaults.

Sound Customizer

가상리모컨 🎞 > Menu▥ > Sound > Sound Customizer `Try Now`

Sound Customizer

Custom Sound Profile	Off
Add Custom Sound	
Edit Custom Sound	
Manage Custom Sound	
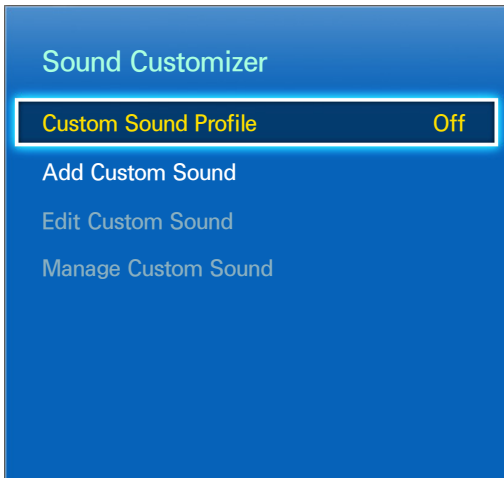
✎ The displayed image may differ depending on the model.

Sound Customizer lets you calibrate the TV for the optimal sound quality based on the user's hearing level and the ambient conditions.

Creating a Custom Sound

가상리모컨 🎞 > Menu▥ > Sound > Sound Customizer > Add Custom Sound `Try Now`

Remain quiet and run **Add Custom Sound**.

1. Select **Start** to preview a test tone. Select **Next** to proceed.

2. A 6-step test will start. During each stage, select **Stop** when you can hear the test tone. If you want to listen to it again, select **Retry**. Once the test is complete, you can compare the original sound to the calibrated sound.

3. Select **Next** and enter a name for the calibrated sound profile.

Users can select a custom sound profile from **Custom Sound Profile** (**Sound** > **Sound Customizer** > **Custom Sound Profile**). `Try Now`

Managing Custom Sounds

가상리모컨 🗗 > Menu⊞ > Sound > Sound Customizer > **Manage Custom Sound** Try Now

Rename or delete custom sound profiles. This function is only available when you add a custom sound mode in the **Custom Sound Profile**.

Modifying Sound Profiles

가상리모컨 🗗 > Menu⊞ > Sound > Sound Customizer > **Edit Custom Sound** Try Now

Choose one of the custom sound profiles to modify it. Follow the same steps as used in creating a sound profile. This function is only available when you add a custom sound mode in the **Custom Sound Profile**.

3D Audio

가상리모컨 🗗 > Menu⊞ > Sound > **3D Audio** Try Now

Sound	
Sound Mode	Standard
Sound Effect	
3D Audio	Low
Speaker Settings	
Digital Audio Out	
Sound Customizer	
Reset Sound	
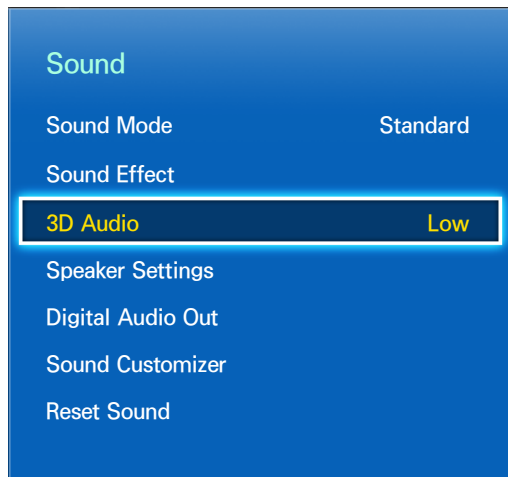
✎ The displayed image may differ depending on the model.

3D audio technology provides immersive sound that matches the pop-up effect of 3D video by using perspective in the audio depth control. 3D Audio is only available while viewing 3D content.

External Speaker Settings

Sound	
Sound Mode	Standard
Sound Effect	
3D Audio	Low
Speaker Settings	
Digital Audio Out	
Sound Customizer	
Reset Sound	
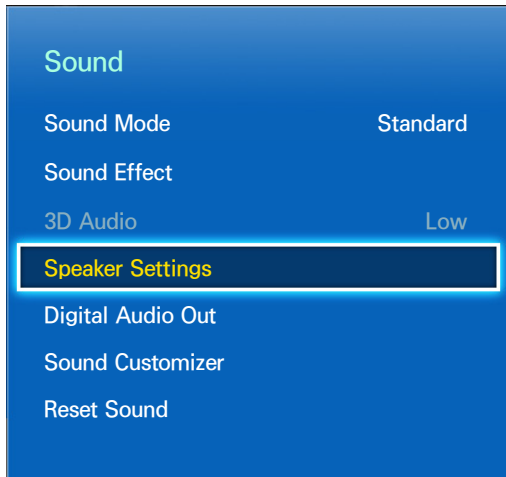
✎ The displayed image may differ depending on the model.

If the TV's audio is sent to an external device such as a home theater system, you can designate which speakers to use and make adjustments to eliminate decoding speed echoes.

Speaker Select

가상리모컨 ⏎ > Menu▥ > Sound > Speaker Settings > Speaker Select (Try Now)

Users can choose which speakers to use from among available several speakers. Choose one from the list of speakers. To use both the TV speakers and the AV receiver speakers simultaneously, set this option to TV Speaker. If there is a delay between the two sounds, choose any other than TV Speaker to mute the TV speakers.

✎ Using the external speakers only disables the volume button and the mute function. In addition, certain Sound options will be disabled.

Digital Audio Output

가상리모컨📺 > Menu🎛 > Sound > Digital Audio Out `Try Now`

This SMART TV is SPDIF-enabled. The Sony Philips Digital Interface (SPDIF) provides digital audio output to speakers and various digital devices, including A/V Receivers and home theaters. This feature reduces interference and distortion.

- **Audio Format**: Selects the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) formats may vary depending on the input source. `Try Now`

- **Audio Delay**: This setting helps correct timing mismatches between the audio and video tracks when watching TV and listening to audio through a digital audio device. Enabling the feature displays a slide bar that you can use to adjust the delay by up to 250ms. `Try Now`

Samsung Audio Device Connection

가상리모컨📺 > Menu🎛 > Sound > Speaker Settings > SoundShare Settings

Connect the TV to a Samsung audio device for a richer, clearer sound. This function is available for Samsung Audio Device supported the SoundShare function.

Pair the Samsung audio device using the TV's Bluetooth function. Refer to the Samsung audio device's operating manual for more information on pairing.

- **Add New Device**: Enables/disables SoundShare. Connection signals from new devices are ignored if they are set to Off.

- **Samsung Audio Device List**: Displays a list of paired Samsung audio devices. Select a device to display its menu options. Activate/deactivate the audio device or remove it from the list.

  🖉 When using a Bluetooth audio device, a slight mismatch between the audio and video may occur, depending on the content.

Clock and Timer

가상리모컨🗗 > Menu▥ > System > Time Try Now

System
Setup
Menu Language   English
Time
Device Manager
Eco Solution
Auto Protection Time   2 hours
Auto Wall Mount
⌄
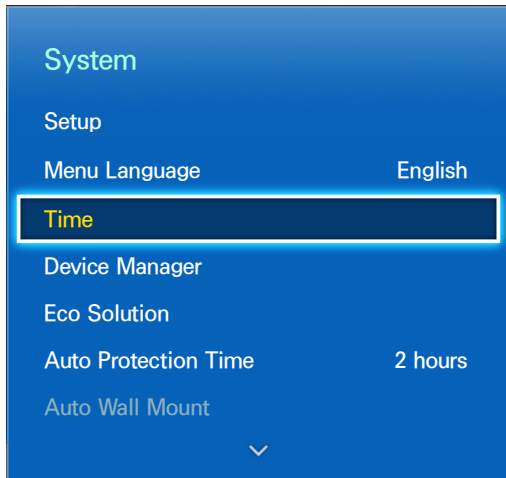
✎ The displayed image may differ depending on the model.

Use the clock and timer to make scheduled use of the TV easier and more efficient. Once the clock has been set, you can select the **정보표시** button on the virtual remote panel to check the current time. The clock must be reset every time the power is disconnected.

Setting the Time

가상리모컨🗗 > Menu▥ > System > Time > Clock Try Now

Set the clock manually or automatically.

Auto

Automatically download the correct time from a digital channel. To enable this option, an antenna cable has to be connected to the TV. The accuracy of the time information received may vary depending on the channel and signal. Set **Clock Mode** to **Auto**.

Time Offset

가상리모컨🗗 > Menu▥ > System > Time > Clock > Time Offset Try Now

If the set time is not accurate, users can set the time offset to adjust the time difference hourly from -12 to +12 hour. Changing Time Offset is only available, when the Time is set to auto, and is set through a network.

The current time will be set through a network, if the TV fails to receive the time information including the broadcast signal from TV stations. (ex: Watching TV via set-top box, Satellite receiver, or etc)

Manual

Manually enter the time. Set **Clock Mode** to **Manual** and then select **Clock Set** to enter the current time and date.

Sleep Timer

가상리모컨 ▢ > Menu▥ > System > Time > Sleep Timer (Try Now)

This function automatically shuts off the TV after a preconfigured period of time. Users can set the timer up to 180 minutes in 30-minute increments.

On Timer

가상리모컨 ▢ > Menu▥ > System > Time > On Timer (Try Now)

Set the On Timer so that the TV turns on automatically at a chosen time. Only three On Timer settings can run concurrently. The clock must be set for the On Timer to work.

- **Setup**: Specify the dates and duration. Use **Manual** to specify the days of the week.

- **Time**: Specifies the on time.

- **Volume**: Specifies the volume when the TV turns on.

- **Source**: Selects a signal source from the list. Specify a channel or source to be displayed when the TV turns on. To specify a USB device, a USB device must first be connected to the TV. To playback media from an HDMI or Component source such as a DVD player or Blu-ray player, the device must already be turned on and playing the media when the TV is turned on.

- **Antenna**: Set **Source** to **TV** to select a broadcast signal.

- **Channel**: Set **Source** to **TV** to select a channel.

- **Music / Photo**: Set **Source** to **USB** to specify a USB device folder containing music and image files. Selecting both music and image files plays the music files and displays the images at the same time.

🖉 This feature will not function properly if the selected USB device does not contain media files or a folder has not been specified.

🖉 The slide show will not start if there is only one image file on the USB device.

🖉 Folders with long names cannot be selected.

🖉 Always use different folder names for multiple USB devices.

🖉 Use a USB memory stick or multi-card reader. **On Timer** may not work with certain battery-powered USB devices, MP3 players, or PMPs because the TV may take too long to recognize the device.

Off Timer

가상리모컨 ▢ > Menu▥ > System > Time > Off Timer (Try Now)

Set the Off Timer to turn the TV off automatically at a specific time. Only three Off Timer settings can be entered concurrently. The clock must be set for the Off Timer to work.

- **Setup**: Specifies the date or period to run the function. Use **Manual** to specify the days of the week.

- **Time**: Sets the time for the TV to automatically turn off.

Screen Protection and Maintenance

System

Setup

Menu Language   English

Time

Device Manager

Eco Solution

Auto Protection Time   2 hours

Auto Wall Mount

⌄
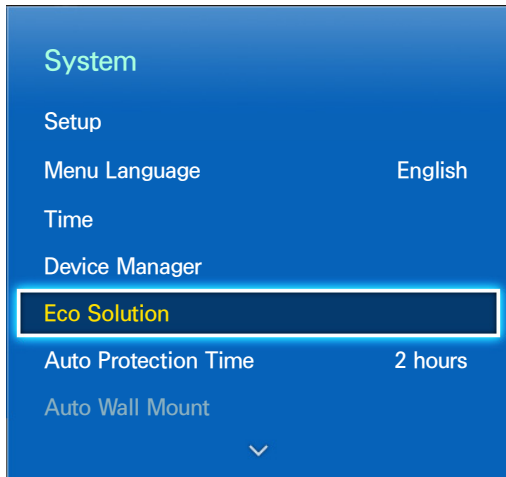
✎ The displayed image may differ depending on the model.

Several onboard functions exist that help maintain the TV beyond its useful lifespan and decrease power consumption.

Eco Solution

가상리모컨 > Menu⊞ > System > Eco Solution Try Now

Eco Solution adjusts the TV's brightness level and prevents overheating to reduce overall power consumption.

- **Energy Saving**: Select a brightness setting from the list to reduce the TV's power consumption. Try Now

- **Eco Sensor**: Automatically adjusts the TV's brightness level based on the ambient light level to reduce the TV's power consumption. If the Eco Sensor has adjusted the screen's brightness level, you can manually adjust the screen's minimum brightness level by adjusting **Min. Backlight** or **Min Cell Light** (applicable models). If **Eco Sensor** is enabled and the **Picture** menu's **Backlight** or **Cell Light** (applicable models) value is changed, **Eco Sensor** is automatically disabled. Try Now

- **No Signal Power Off**: Select a time from the list. If no signal is received for the specified duration, the TV will automatically cut off the power to reduce power consumption. Try Now

- **Auto Power Off**: If the TV remains turned on for four hours without any user input, the TV will automatically turn off to prevent overheating. Try Now

Auto Protection Time

가상리모컨 > Menu⊞ > System > Auto Protection Time Try Now

Select a time from the list. If a still image is shown on the screen for the specified duration of time, the TV will automatically activate the Screen Burn Protection function to prevent burnt-in ghost images.

Password

System

Eco Solution

Auto Protection Time   2 hours

Auto Wall Mount

Change PIN

General

Anynet+ (HDMI-CEC)   On

DivX® Video On Demand
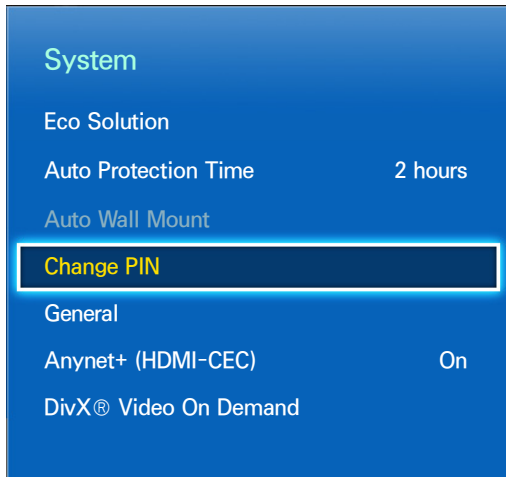
✎ The displayed image may differ depending on the model.

This TV requires a password to lock out channels and to reset its settings to the factory default.

Change Password

가상리모컨 > Menu▥ > System > Change PIN Try Now

Change the TV's password.

1. Run **Change PIN** and then enter the current password in the password field. The default password is 0000.

2. Enter a new password and then enter it again to confirm it. The password change is complete.

✎ If you forget the PIN code, press the buttons in the following sequence which resets the PIN to "0-0-0-0": When the TV turnes on: **조용히 → ✚ → 복귀 → ━ → 복귀 → ✚ → 복귀**.

Additional Features

System	
Setup	
Menu Language	**English**
Time	
Device Manager	
Eco Solution	
Auto Protection Time	2 hours
Change PIN	
⌄	
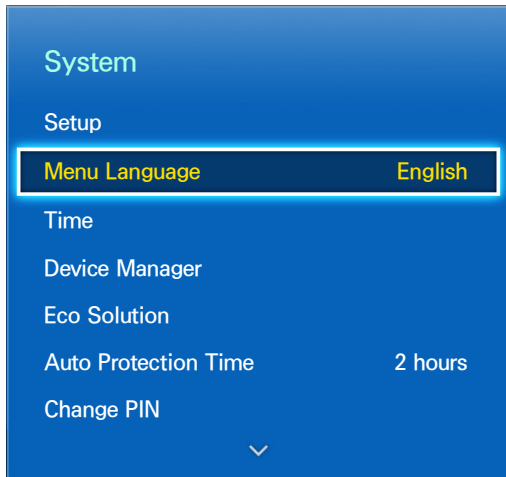
🖊 The displayed image may differ depending on the model.

There are many elements available for customizing the TV for individual user preferences.

Changing the Menu Language

가상리모컨🗗 > Menu▥ > System > Menu Language Try Now

Select a menu language from the list.

Game Mode

가상리모컨🗗 > Menu▥ > System > General > Game Mode Try Now

Game Mode optimizes the TV's settings for playing video games on a gaming console such as PlayStation™ or Xbox™. Read the following information before using Game Mode.

Precautions and Restrictions

- Game Mode cannot be used for normal TV viewing.

- Connect the gaming console before enabling Game Mode. Otherwise, the picture quality may suffer.

- Game Mode can result in some images shaking.

- Enabling Game Mode automatically sets Picture Mode to Standard and Sound Mode to Movie.

- Once finished, disconnect the gaming console and disable Game Mode before plugging in a different external device.

BD Wise

가상리모컨 > Menu > System > General > BD Wise `Try Now`

Connecting a Samsung DVD player, Blu-ray player, or home theater system that supports BD Wise enables you to enjoy the richest colors and picture quality possible. Enabling BD Wise automatically optimizes the TV's resolution. This feature is only available when the external device is connected via an HDMI cable.

Menu Transparency

가상리모컨 > Menu > System > General > Menu Transparency `Try Now`

Adjust the menu screen's transparency.

Sound Feedback

가상리모컨 > Menu > System > General > Sound Feedback `Try Now`

Adjust the sound feedback volume or disable it entirely. Sound feedback is an audio cue that plays when you move the focus or make a selection.

Panel Lock

가상리모컨 > Menu > System > General > Panel Lock `Try Now`

Lock or unlock all the keys on the front panel. The panel keys are located at the back of the TV and can be used to select options, to change the channel, and to adjust the volume.

Boot Logo

가상리모컨 > Menu > System > General > Boot Logo `Try Now`

Enable/disable displaying the logo while the TV starts up.

Light Effect

가상리모컨🗖 > Menu🎛 > System > General > Light Effect `Try Now`

Users can turn the LED on the TV's front panel on or off. Turn it off to save power or if the LED is too bright for you. This function may not be available, depending on the model.

DivX® Video On Demand

가상리모컨🗖 > Menu🎛 > System > DivX® Video On Demand `Try Now`

Product registration is required to play back videos protected with DivX® DRM. Visit the DivX website and register the code displayed on the screen.

Adjusting the TV Position and Angle

가상리모컨🗖 > Menu🎛 > System > Auto Wall Mount

Using an electrically powered wall mount lets you adjust the position and angle of the TV using the remote control. However, there may be certain restrictions depending on the model. For detailed instructions on installing the wall mount, refer to the wall mount's user manual. This function is available for LED 7400, 7500 Series model only.

✎ This function is not available with 152 cm or more models.

Wall Mount Adjustment

가상리모컨🗖 > Menu🎛 > System > Auto Wall Mount > Wall Mount Adjustment

Use Wall Mount Adjustment to change the TV's position or angle. However, Wall Mount Adjustment cannot be used while Anynet+ (HDMI-CEC) or Smart Hub is running.

To return the wall mount to its original position, run Centering Option (System > Auto Wall Mount > Centering Option).

Smart Hub

This TV features Smart Hub, a multi-purpose entertainment and family center. With Smart Hub, users can surf the web, download applications, and stay in touch with family and friends through social networking services. In addition, you can enjoy photo, video, and music files stored on external storage devices.

Press the 🎁 button to launch Smart Hub. Choose a service using the icons displayed in the top part of the screen.

- **Social**: Watch the latest YouTube videos and you and your friends' video posts on Facebook and Twitter. Users can also make video calls to friends by the TV camera.

- **Apps**: Samsung Apps offers an extensive collection of free and paid news, sports, weather, and gaming content you can directly download to and enjoy on your TV.

- **On TV**: Check a listing of programs that are currently airing and are scheduled to air.

- **Movies and TV Shows**: Purchase and watch movies and TV shows without the need for a separate external device.

- **Photo, video, and music**: Play back photo, video, and music files from an external storage device.

To change the Smart Hub service panel, select the ◄◄ / ►► button on the virtual remote panel.

Agreements Required to Use Smart Hub

Carefully read the terms and conditions to use Smart Hub, and determine whether or not to agree to them. Users cannot use Smart Hub fully unless they agree to them.

Samsung Account

가상리모컨 > Menu > Smart Features > Samsung Account

Samsung Account
- **Log In**
- Edit Profile
- Link Service Accounts
- Remove Accounts from TV
- **Create Account**
- Terms & Conditions
- Privacy Policy
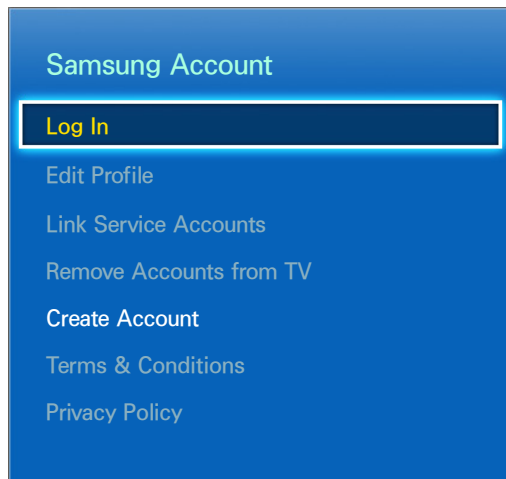
✎ The displayed image may differ depending on the model.

A Samsung account allows you to get even more out of Smart Hub. Users can create a Samsung account using your email address.

Creating a Samsung Account

가상리모컨 > Menu > Smart Features > Samsung Account > Create Account > Create Samsung Account

From the login screen, select **Create Account** and then follow the on-screen instructions.

✎ Once a Samsung account has been created, a confirmation email will be sent to the email address you entered as your ID. Open the confirmation email and click on the confirmation button to finalize the Samsung account setup process.

Creating a Samsung Account Using a Facebook Account

가상리모컨 > Menu > Smart Features > Samsung Account > Create Account > Create Samsung Account with Facebook

A Facebook account makes it easier to create a Samsung account. When a Samsung account is created using a Facebook account, the Facebook account is also registered on the TV.

Terms and Conditions, Privacy Policy

가상리모컨 > Menu > Smart Features > Samsung Account

Carefully read the terms and conditions to use Samsung Account, and determine whether or not to agree to them. Users cannot use Samsung Account fully unless they agree to them. However, you can only view the entire terms and conditions after signing in with your Samsung account and you can use your Samsung Account after agreeing to the terms and conditions.

Logging In

가상리모컨 🖰 > Menu▥ > Smart Features > Samsung Account > Log In

Use your Samsung account to log into the Smart Hub. Enter your ID and password and then select Log In.

The Remember my password option lets you login without having to enter your password each time. Check this option to enable it. Check the Sign me in automatically option if you want to log into Smart Hub automatically.

If you forgot your password, select Reset password to receive the password resetting instructions via email.

Linking a Samsung Account to Other Accounts

가상리모컨 🖰 > Menu▥ > Smart Features > Samsung Account > Link Service Accounts

Linking your Samsung account to other accounts lets you automatically log into your linked accounts when you log into your Samsung account. For example, you can download the Facebook application and link your Facebook account to your Samsung account. Logging into your Samsung account then automatically logs you into your Facebook account as well.

Log into your Samsung account and select Link Service Accounts to view a list of applications that require login information.

- **Register Service Account**: Select an application, select Register, and then provide the ID and password.

- **Edit**: It is possible to change a registered account. Select an application, select Edit, and enter the ID and password for the new account.

- **Remove**: Select an application to which an account has been registered and then select Deregister.

Managing Accounts

가상리모컨 🖰 > Menu▥ > Smart Features > Samsung Account

Using the Samsung Account menu, you can manage your Samsung account. Users can only use this function after signing in with your Samsung account.

- **Edit Profile**: Users can change the basic user information and register your photo and credit card information.

- **Remove Accounts from TV**: The Samsung account used to sign into the Smart Hub is automatically saved on the TV. Users can delete your account information from among the saved accounts on the TV.

Resetting Smart Hub

가상리모컨🗗 > Menu⫿ > Smart Features > Smart Hub Reset

It is possible to remove Samsung accounts and everything linked to them, including apps, from the TV. Enter the password when accessing this menu.

After resetting Smart Hub, you will need to read and agree to the service agreement again before using Smart Hub. Run **Setup** (**System** > **Setup**) again.

Searching

Users can search many apps and their contents on the TV as well as the Web.

Keyword Search

Press the **추천/검색** button. The list appears at the bottom of the screen. Press the **추천/검색** button again. The keypad screen appears. Enter search criteria using the on-screen keyboard that appears, and then select **Done**. A list of search results appears. Select a desired item from a list of search results. The selected item's page appears.

Setting Search Scope

Press the ⚙ icon on the Search result screen. User can set up the desired search range in the scope list.

Status and Notification

A notification message window appears at the top of the screen when important messages concerning application updates and Samsung account logins are available. This message window notifies the user of the TV's operating status.

Show Status and Notification Banner

Select 상태/알림 on the virtual remote panel that appears on the screen. The status and notification banner is shown at the top of the screen.

Voice Recognition & Motion Control Configuration

Enable/disable the status and notification banner's Voice Recognition and Motion Control functions. It's also possible to perform the Voice Recognition Environment Test and the Motion Control Environment Test.

Samsung Account Configuration

Select My Account from the notification banner to manage your Samsung account. For more information, refer to "Managing Accounts".

Network Configuration

Select Network Settings from the notification banner to configure the network.

For details on how to connect to a wired network, see "Wired Network Setup".

For details on how to connect to a wireless network, see "Wireless Network Setup".

Check Notifications

If you were not able to check the notification message, you can see a list of unread notification messages in the status and notifications banner. Users can also check notifications from Notifications (Smart Features > Notifications). Try Now

Selecting a notification from the list allows you to perform corresponding actions with ease. To delete all notifications, select Delete All.

Selecting Service Notice launches Web Browser to display the notification webpage of the Samsung website.

Social
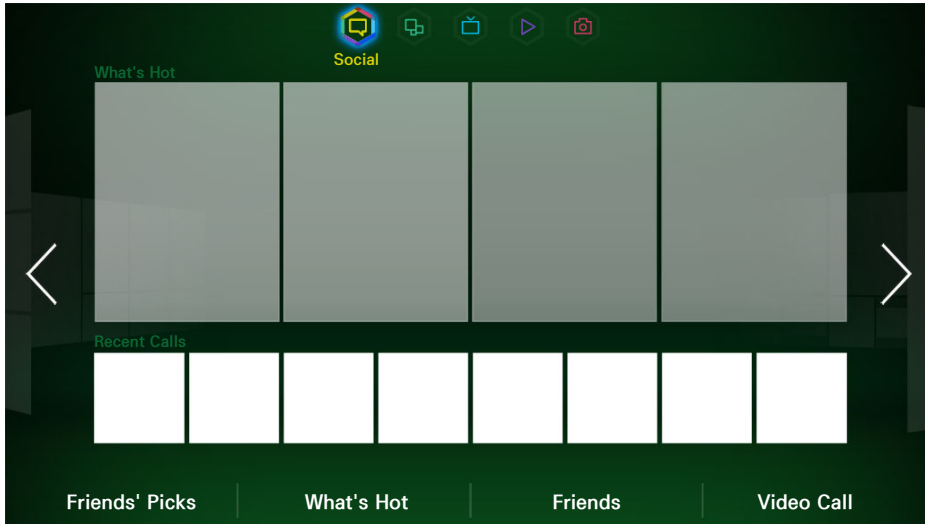
✎ The displayed image may differ depending on the model.

Watch the latest YouTube videos and you and your friends' video posts on Facebook and Twitter. Users can also make video calls to friends by the TV camera.

Social Settings

가상리모컨 > Menu⬛ > Smart Features > Social Settings Try Now

Checking the Application

Certain applications need to be installed on the TV in order to use the Social feature. If a selected application has not been installed on your TV, you will need to install it first. For more information on installing applications, refer to "Samsung Apps".

Connecting a Service to a Samsung Account

Social service accounts need to be linked to a user's Samsung account first. If you do not have a social service account, create one by visiting the website of that service. For more information on connecting to a social service, refer to "Linking a Samsung Account to Other Accounts".

Watching Videos

Select **Friends' Picks** or **What's Hot** at the bottom of the **Social** screen to display a list of videos. Select a video from the list to view its information and then select **Play**.

Friend Profile

Select **Friends** at the bottom of the **Social** screen to display a list of Facebook and Twitter friends. Select a friend from the list. The selected friend's profile containing his/her basic information and posts is displayed

Video Calling a Friend

Select **Video Call** at the bottom of the **Social** screen. This launches Skype and displays a list of friends. Select a friend to call.

Filters

Select an option at the bottom of the **Social** screen to bring up the screen for the selected function. Use the filter option at the top of the screen to rearrange the list. Select an item. However, this option cannot be used in the **What's Hot** list.

Apps
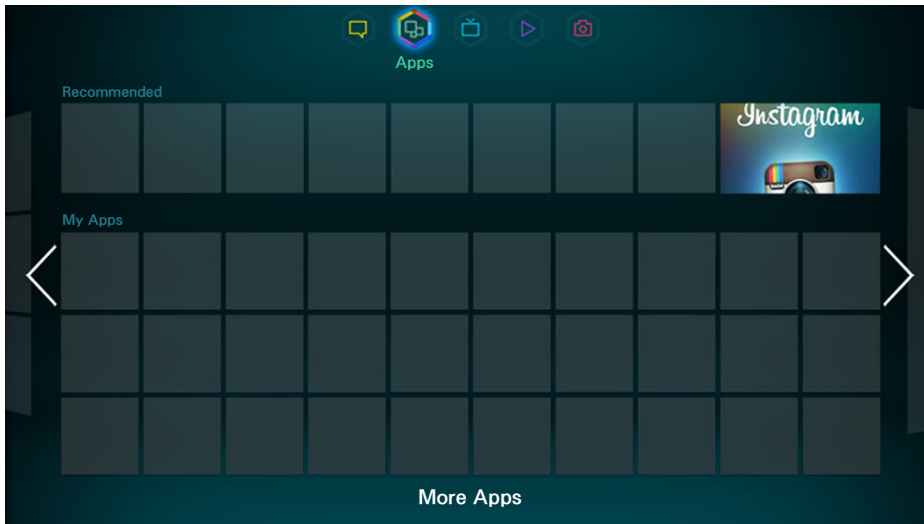
✎ The displayed image may differ depending on the model.

Samsung Apps offers an extensive collection of free and paid news, sports, weather, and gaming content you can directly download to and enjoy on your TV. First, check the network and make sure the TV is connected to the Internet. Your TV needs to be connected to the Internet in order to use Apps.

Precautions

- Due to the product characteristics featured on the 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. Some Smart Hub features may also require additional peripheral devices or membership fees. 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 for any interruption of the Smart Hub service caused by the service provider for any reason.

- Application services may be provided in English only and available content may vary, depending on the 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.

- The service details may vary depending on the user's firmware version.

- The application usage method may vary with future versions of the application. If this is the case, run the application's tutorial or visit the service provider's website.

- In some applications, depending on the policy of the service provider, multi-tasking is not supported.

Installing Standard Applications

Launching Smart Hub for the first time and loading the Apps screen. The TV is automatically downloads and installs the basic applications that correspond to the network your TV is connected to. The types of basic applications may vary depending on your location.

Launching an Application

Navigate to the Smart Hub's Apps screen and then select More Apps located at the bottom of the screen. The list of applications currently installed on your TV is displayed. From this list, select the application you want to launch. Select View Mode (top of the screen) to rearrange the list of downloaded applications by the installation date, launch date, or title.

Samsung Apps

Samsung Apps offers various free and paid news, sports, weather, and gaming applications. Samsung Apps lets you search for applications and install them directly on your TV. Read and agree to the terms and conditions of use and then browse through the categories or directly search for applications. Try Now

Searching for Apps

Search for applications by name. On the Samsung Apps screen, select the search field to bring up the keypad. Enter the application's name and then select Done.

Installing Applications

Select the application you wish to install to bring up a screen with detailed information about that application. Select Download to install the selected application. Paid applications, however, must be purchased before you can install them. Visit the Samsung Apps TV website at http://tv.samsungapps.com and recharge your account with App Cash before purchasing paid applications.

Apps Management

Users can customize the My Apps screen. Users can also manage installed applications and configure application update settings.

Edit My Apps

Navigate to **More Apps** screen, select **Options**, and then select **Edit My Apps**. Users can customize the My Apps screen.

Change Order

From the **Edit My Apps** screen, select the applications you wish to rearrange, change the order, and then press the **RETURN** button.

Removing Applications

Remove unused applications from the My Apps' application list. Removed applications are moved to the More Apps list.

From the **Edit My Apps** screen, select the applications you wish to remove and then press the touch pad again. A popup window appears. Select Yes from the popup window to remove the selected applications from the My Apps list.

From the **Edit My Apps** screen, select **Remove All** to remove all applications from the My Apps list.

Adding Applications

Applications that have been installed on the TV but do not show up in the My Apps list can be added to the list.

Select the applications you wish to add from the More Apps list at the top of the **Edit My Apps** screen. Selected apps are added to the My Apps list.

Deleting Applications

Delete applications installed on your TV. Deleting an application deletes all data associated with that application.

Navigate to More Apps screen, select Options, and then select Delete. A check box appears on the application icons. Select all the applications you wish to delete and then select Delete. A popup window appears. select Yes. Applications in gray cannot be deleted.

> Users can reinstall deleted applications for free from Samsung Apps.

Managing Application Folders

Create folders and manage applications by group. Navigate to More Apps screen, select Edit, and then Create Folder. Enter a name for the new folder.

Select Options to rename the folder or move applications to that folder.

Application Lock/Unlock

Lock/unlock applications. Navigate to More Apps screen, select Options, and then select Lock / Unlock. Enter the password and then select the applications you wish to lock. A lock symbol appears on the selected applications. To unlock, simply select the application again.

Application Update

When the application require to update to the latest version, select Apps and then select More Apps. On the More Apps screen, select Update Apps, and then select application from the list. The application starts updating to the latest version. However, Update Apps appears on the screen only when the update is required.

Setting up the Application Auto Update

To update the applications automatically, select Options in the More Apps screen, and then select Auto Update Apps. Applications will then be updated automatically when an update becomes available.

Fitness

Fitness is an application that helps you stay fit. Create a profile, set up an exercise plan, and start exercising according to a structured regimen. Read and agree to the terms and conditions before using Fitness. `Try Now`

⚠ **Do a warm-up or some stretches before exercising. Users must stop exercising immediately if they experience pain, or become dizzy, exhausted or short of breath.**

Creating a Profile

Follow the on-screen instructions and enter your information to create a profile.

Kids

This is a quick launcher and recommended list for applications and content that is suitable for children and even provides services not currently installed on your TV. Using Kids, you can download applications and content for your children to your TV. Certain services, however, are fee-based. `Try Now`

On the **Kids** screen, select the **간편메뉴** button on the virtual remote panel. The list screen appears. Select **Tutorial Video** from the list, user can view the introductory video for more information about Kids anytime.

WebBrowser

WebBrowser is a web-browsing application. Using WebBrowser, you can browse the Internet on your TV as you would on your computer and even watch TV while you surf the web. The browsing experience, however, may not be the same as it is on your computer. Use a keyboard and mouse for a more convenient web browsing experience. Try Now

Social Networks

Share your thoughts and comments about a program on the air through social networking services. Social Networks displays social network services such as Twitter, Facebook, Google Talk, NateOn, on a single screen. Users can even post messages and comments in the same manner as you would using a computer. Users must first link your Samsung account to the respective SNS accounts before you can access them using Social Networks.

For more information about using the service, visit the application's website.

Linking Service Accounts

Link your SNS (Twitter, Facebook, Google Talk, NateOn, etc.) to your Samsung account. Launch Social Networks, select an SNS, and then register the account you have with that SNS.

Once linked, you can use the buttons at the bottom of the screen to access the registered SNS. Users can update your feed, post comments, and even change the viewing mode.

Smart Tips

Smart Tips displays information and hot issues about the TV program and the specific scene you are watching and lets you search for keywords while watching TV. Additional information is only available for digital channels. In addition, certain scenes may not contain keywords.

Navigate to Ticker Autorun and select Smart Tips to have Smart Tips launch automatically when the TV is turned on. Press **A** to display the command window.

Naver Search

Press **B** button brings up the Naver Search window, which lets you search the web and check out lists of popular search terms. Select a term from the list to view its search results page.

Real-Time Hot Issues from me2day

If you press the **C** button, you can view real-time hot issues brought to you by me2day.

Music Search

Press **D** button analyzes the song you are listening to and displays the artist name, the album name, and other information about that song. This feature may not be able to recognize non-official songs.

Smart Tips Settings

While Smart Tips is running, select the 간편메뉴 button on the virtual remote panel. User can manage user's bookmarks and the broadcast information categories.

3D Explorer

3D Explorer is a 3D VoD service that lets you enjoy Dreamworks movie trailers, concerts and music videos by renowned Korean artists, children's stories, educational contents, HD IMAX documentaries, and a lot more additional 3D content.

Apps Settings

Configure the apps installed on your TV.

Auto Ticker

Configure selected tickers to display automatically when the TV is turned on. A ticker is a service that displays stock values, news, and weather updates on the screen in real-time. Enabling the Ticker service brings you up-to-the-minute information while you watch TV. From the Auto Ticker list, select the applications to run. If a selected application has not been installed on your TV, you will need to install it first.

Push Notifications

Enable/disable push notifications from applications. Push notifications are displayed on the screen as you watch TV. Users can then select these notifications to get more information.

Channel-Bound Apps

Channel-Bound Apps can be used when watching a channel that supports applications for the current program's data services.

Properties

Users can view the Apps version, the TV's serial number. In addition, you can check the TV's total and available memory capacity.

On TV
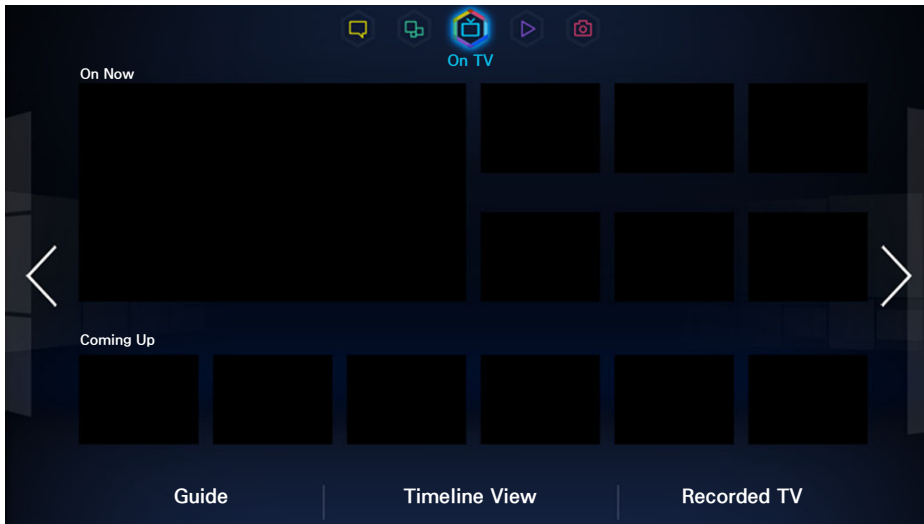
✎ The displayed image may differ depending on the model.

While you watch TV, a list of recommended programs on other channels appears on the screen. Users can use this list to change the channel and find out more information about the recommended programs including how much time is left until they air. Users can also launch the Recorded TV function and watch recorded programs.

✎ Certain features within Smart Hub require internet access and may not be available based on service provider, language, dialect and region.

✎ On TV's program and channel information recommendations may differ from actual information depending on service providers and broadcasts.

On TV Settings

가상리모컨 > Menu > Smart Features > On TV Settings (Try Now)

Customize the On TV screen.

On TV Setup

Set a broadcast media type and TV stations for the On TV screen, following the on-screen instructions.

Recommendation Notice

With this enabled, when one of popular TV programs that the user has often watched is currently on the air, the TV notifies the user.

Auto Start

Users can configure On TV to automatically launch when the TV is turned on.

Recommendation Method

Determine whether to display upcoming TV programs by user preference or general popularity.

Adult Contents Block

With this enabled, adult TV programs are not listed on the On TV screen.

Watching an On-Air Recommended Program

Select a program from the right side of the screen. This changes the channel to the selected program.

Scheduled Recommended Program Info

The following list displays the information and viewing times of recommended programs that have not yet aired. Select a program from the list to see more information about the program and to access the following options:

- **Jump to Channel**: Jump to the selected program's channel.

- **Timer**: Set up a Schedule Viewing.

- **Related Contents**: Displays the related contents list of the selected program. Select a desired contents in the list. User can view the information screen of the selected contents.

- **Share**: Like/dislike the selected program or share information about the selected program via an SNS.

Activating the Guide

Select Guide at the bottom of the screen to launch the Guide. For more information, refer to "Guide".

Program Recommendations by Time

Select Timeline View at the bottom of the screen to display program recommendations for different times of the day.

Watching Recorded Programs

Select Recorded TV at the bottom of the screen to launch Recorded TV. For more information, refer to "Recorded Program Playback".

Movie & TV Shows
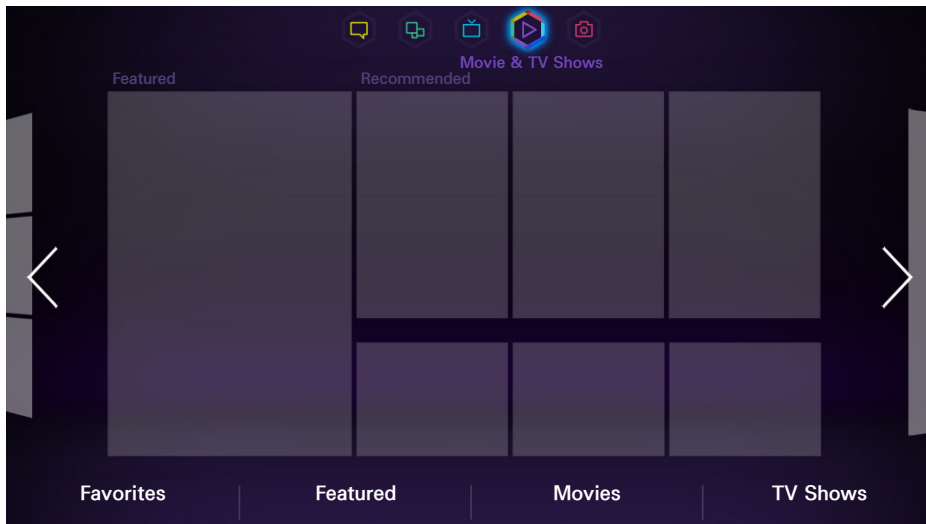
✎ The displayed image may differ depending on the model.

Use the **Movies & TV Shows** feature to purchase and watch movies and TV shows without a DVD/Blu-ray player. **Movies & TV Shows** is a content aggregator that lets users enjoy movies and TV shows offered by various applications. However, not all the **Movies & TV Shows** options may be available depending on the content you are trying to access or your region.

The following options are available at the bottom of the **Movies & TV Shows** screen:

- **Favorites**: Manage your favorite contents while watching a movie or TV program.

- **Featured**: Search featured movies and TV programs by category.

- **Movies**: Search movies by the release date, popularity, or genre.

- **TV Shows**: Search TV programs by the air date, popularity, or genre.

Custom Recommendations List

If you are using **Movies & TV Shows** for the first time or you have not logged into your Samsung account, new and popular movies and TV shows will be shown in the **Recommended** list. Try the custom recommendations list, which makes custom recommendations based on the contents accessed through **Movies & TV Shows**.

Watching Content

1. Select a movie or TV show. Detailed information about your selection appears on the screen.

2. Select **Watch now**. A list of applications offering the selected content is shown.

3. Compare the price, picture quality, provider, rental/purchase option, and other viewing options and select the application that suits you best. Detailed information about the selected application is shown. If the selected application has not been installed on the TV, you can install it by launching Samsung Apps.

4. Purchase the content from the detailed application info screen and then launch it. The actual purchasing process may vary depending on the application. Some applications may require a login and/or ask you to enter your payment information.

Parental Control

가상리모컨🖳 > Menu🎛 > Smart Features > VOD Rating Lock

By launching **VOD Rating Lock** and entering your PIN, you will be able to limit access to purchased contents based on their ratings. Use this feature to prevent children and others from watching certain types of content.

Miscellaneous

From the detailed content information screen, you can register the item as a favorite, Like or Dislike the item, and even share information about the item via social networking services.

Photos, Videos & Music
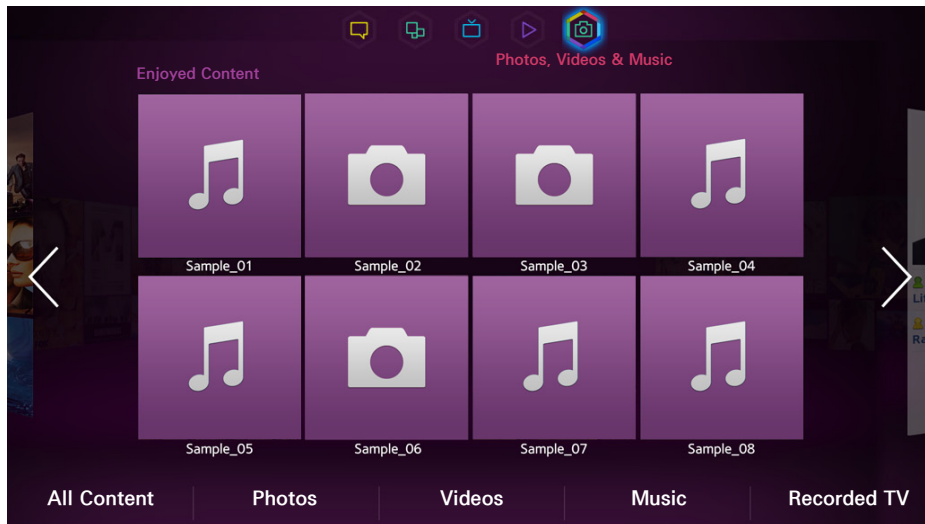
✎ The displayed image may differ depending on the model.

✎ On the **Photos, Videos & Music** screen, the **Enjoyed Content** panel only shows recently-played media files from either removable storage devices connected to the TV via USB, or DLNA-enabled devices connected to the TV via network.

Enjoy photo, video and music files from an external storage device directly on your TV. Back up important files before connecting an external storage device to the TV. Samsung will not be held responsible for damaged or lost files.

Restrictions

- 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 TV's USB port. The TV may not be able to recognize the USB device or read the files on the device if it is connected to the TV via a USB extension cable. Do not disconnect the USB device while transferring files.

- When connecting an external hard drive, use the USB (HDD) 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 recognize some or all the devices. USB devices that use high-power input (500mA or 5V) may not be supported.

- Supported file systems are FAT, exFAT, and NTFS.

- Sorting the files in Folder view mode 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.

- PTP connection mode is fully available only with digital cameras. When connecting a smartphone or tablet to the TV using PTP mode, it may not be recognized.

Supported File Formats

This TV is capable of playing back the following types of files. For more information, refer to the "Subtitle and Media Contents file formats, and Codec" section.

- **Photos**: .bmp, .jpg, .mpo, .png

- **Music**: .aac, .flac, .m4a, .mpa, .mp3, .ogg, .wma

- **Video**: .3gp, .avi, .asf, .flv, .m2ts, .mkv, .mov, .mp4, .mpg, .mts, .svi, .ts, .tp, .trp, .vob, .vro, .webm, .wmv

- **Subtitles**: .ass, .psb, .smi, .srt, .ssa, .sub, .ttxt, .txt

With .avi, .mkv, and .mp4 files, the TV supports embedded subtitles.

   🖉 Certain files, depending on how they were encoded, may not play on the TV.

USB Device Connection

Plug the USB device into the TV's USB port. Play back stored media files as follows:

- Connecting a USB device while the TV is turned on displays a popup window. Select the type of media you want to play.

- Move to Photos, Videos & Music at the top of the Smart Hub screen. Select the type of media you want to play and then the USB device that contains the files.

- Select the USB device from the Source screen. A popup window appears. Select the type of media you want to play.

   🖉 When connecting a USB device to the One Connect on the UHD F9000 and S9 series models, the TV may fail to recognize it, depending on the device. If this happens, directly connect the device to the USB port on the TV's rear.

USB Device Removal

Press the 외부입력 button on the virtual remote panel to access the Source screen. Select the USB device you want to remove and then select Tools at the top of the screen.. Select Remove USB from the list to safely remove the selected USB device.

Playing Media Files Stored on USB storage devices

On the Photos, Videos & Music screen, select All Content to access all media files stored on a USB storage device, regardless of file formats. Try Now

Clearing the Recent Playlist

가상리모컨 > Menu > Smart Features > Remove viewing history

The Photos, Videos & Music screen displays thumbnails of recently-played media files. Selecting a thumbnail plays the media file.

Using Networked External Storage Devices

This TV can directly display media files from web storage devices and computers and DLNA-enabled devices connected to the TV over a network. To display the media files on an external storage device, the device must support DLNA and be connected to the same network as the TV. For more information, refer to the manual of the external storage device.

For example, you can display the media files on your Smartphone or web storage in the following ways:

- Send a media playback request to the TV from a Smartphone or computer.

- Establish a link between the TV and a computer/Smartphone/web storage and play the media files.

- Use a Smartphone to send a request to the TV to play the media files stored on a computer or use a computer to request playing the media files stored on a Smartphone.

- Log into your Samsung account and play the media files stored on your web storage.

🖉 Certain media files stored on a networked external storage device may not play on the TV, depending on their resolution and format. In addition, certain functions may not be available.

🖉 Certain files may not play smoothly. If this is the case, use a USB storage device.

Move to Photos, Videos & Music at the top of the Smart Hub screen. Select the media type and then the device where the media file is located. The folder and file list of the selected external storage device are shown.

Allowing DLNA Device Connections

가상리모컨🖳 > Menu🎛 > Network > AllShare Settings > Content Sharing

Select Content Sharing, and a list of devices connected to the same network as the TV appears. Select a device to connect it to the TV. Select a device to allow it to connect to the TV. Users can only play media files from devices that have been allowed to connect to the TV. This function is available for all DLNA DMC devices. Alternatively, you can send a media playback request from an external device that has not yet been allowed to connect to the TV and then accept the connection when prompted.

AllShare

AllShare makes it easy to retrieve and enjoy media files from computers and DLNA-enabled devices. However, computers need to be installed with AllShare PC and mobile devices need to support AllShare. For more information, visit the Samsung Content & Service portal (http://link.samsung.com).

🖉 Users may experience compatibility issues when attempting to play media files via a third-party DLNA server.

Exporting Conents

From the Options list located at the top of the screen, select Send. Select all the contents files you wish to export and then select Send. This exports the selected files to a different storage device. Possible file export pairings are as follows:

Source Device	Target Device
USB Device	DLNA Device, SugarSync, Dropbox, SkyDrive, Ndrive, Mobile Device
Camera	DLNA Device
DLNA Device	USB Device
SugarSync, Dropbox, SkyDrive, Ndrive	USB Device
Mobile Device	USB Device

Videos

Select the video file from the list or select the ► button on the virtual remote panel to play video. Use the Smart Touch Control or the on-screen buttons to control the video playback. Press the touch pad to bring up the on-screen buttons and press the 복귀 button to hide them. To stop playing the file, select the ■ button on the virtual remote panel or press the 복귀 button. Try Now

Changing the view mode

On the file list screen, select View on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Playlist Creation

From the Options list at the top of the screen, select Play Selected, specify all the video files you wish to play, and then select Play. This creates a playlist. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Opening a Different File

- Select the ⏮/⏭ on-screen button.

- Select the Search on-screen button and then select Search Titles.

Video Scanning

- Drag left/right on the touch pad. Scan 10 seconds backward or forward.

- Select the ⏪/⏩ button on the virtual remote panel. This changes the playback speed by up to 300%. To restore normal playback speed, select the ▶ button on the virtual remote panel. Alternatively, select the ⏩ button on the virtual remote panel while paused to reduce the playback speed (1/8, 1/4, 1/2). Slow playback doesn't support audio and is available in the forward direction only.

- Select the ❚❚ button on the virtual remote panel to pause the screen and then select ❚❚ button to scan through the paused video in 1-frame increments. Audio is not supported while the video is paused.

- Select the Search on-screen button and then select Search Scene. This will take you to a scene in the video. If the index information is damaged or unsupported, user will not be able to use the Search Scene function.

- Select the Search on-screen button and then select Search Time bar. This will take you to a time frame in the video.

- Select the ⏮ on-screen button. This plays the video from the beginning.

Show Subtitles

If the external storage device contains a subtitle file with the same name as the video file being played, you can choose to display subtitles on the screen. Select the Settings on-screen button and then select Subtitle Settings to show subtitles.

If the subtitles appear corrupted, try changing the encoding setting. If the subtitles do not match the video, adjust the sync.

If the subtitles are too small, increase the font size.

Additional Video Playback Settings

- **Repeat**: Select the Repeat Mode on-screen button. This changes the repeat mode. Repeat One repeats the current file only, whereas Repeat All repeats all files contained in the folder.

- **Picture Size**: Select the Picture Size on-screen button and then select the picture size. However, this function is not available on the UHD resolution screen that is supported by UHD F9000 and S9 series models.

- **Rotate**: Select the Rotate on-screen button to rotate the current video 90 degrees clockwise. However, this function is not available on the UHD resolution screen that is supported by UHD F9000 and S9 series models.

- **Receiver**: Select the Receiver on-screen button and then power on the receiver.

- **Picture Mode**: Select the Settings on-screen button and then select Picture Mode. Select a picture mode.

- **Sound Mode**: Select the Settings on-screen button and then select Sound Mode. Select a sound mode.

- **Audio Language**: Select the Settings on-screen button and then select Audio Language. Select an audio language. However, this option is only available with streaming videos that support multiple audio formats.

- **Information**: Select the Settings on-screen button and then select Information to view detailed information about the current video.

Music

Select the music file from the list or select the ▶ button on the virtual remote panel to play music. To exit, select the ■ button on the virtual remote panel or press the 복귀 button. Try Now

Changing the view mode

On the file list screen, select View on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Playlist Creation

From the Options list at the top of the screen, select Play Selected, specify all the music files you want to play, and then select Play.

This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Music Scanning

- Select the ◄◄/►► button on the virtual remote panel. Scan 10 seconds backward or forward.

- Select the ❚❚ button on the virtual remote panel. This pauses the currently playing music file.

Opening a Different File

- Select the ❙◄◄/►►❙ on-screen button.

- Select a file from the playlist.

Additional Music Playback Settings

- **Shuffle**: Select the Shuffle on-screen button. Choose between normal and random play.

- **Repeat**: Select the Repeat on-screen button. This changes the repeat mode. One Song repeats the current file only, whereas All repeats all files contained in the playlist.

- **Receiver**: Select the Receiver on-screen button and then power on the receiver.

- **Sound Mode**: Select the Sound Mode on-screen button. Select a sound mode.

- **Information**: Select the 정보표시 button on the virtual remote panel from the playlist to view detailed information for the selected file.

Photos

Select a photo from the list to display it on the screen. Press the touch pad to show the on-screen control buttons. Press the 복귀 button to hide them. To exit, select the ■ button on the virtual remote panel or press the 복귀 button. (Try Now)

Changing the view mode

On the file list screen, select View on the top right of the screen and choose a category. The file list is sorted by the chosen category.

Slide Show

- From the Options list located at the top of the screen, select Slide Show. Users can view all photos in the list as a slide show.

- Select the ► button on the virtual remote panel from the list.

- Select the ► button on the virtual remota panel or select the Start Slide Show on-screen button to begin the slide show.

Slideshow Settings

- **Slide Show Speed**: Select the ◄◄/►► button on the virtual remote panel or select the Slideshow Settings on-screen button and then select Speed.

- **Slide Show Effect**: Select the Slideshow Settings on-screen button and then select Effects.

Playlist Creation

From the Options list at the top of the screen, select Play Selected. specify all the photos you want to play, and then select Play. This creates a playlist. If the list is displayed in Folder view mode, only the files contained in the current folder can be selected. To select files from other folders, change the view mode.

Opening a Different File

- Drag left/right on the touch pad.

- Select the Previous / Next on-screen button.

Background Music

Enable music to play in the background during a slide show. However, all music files must be located on the same storage device.

Select the Background Music on-screen button while a photo is displayed on the screen or a slide show is in progress. Select the music files you want to listen to and then Play. To play the files in a random order, select Shuffle.

Mini Player

When viewing photos with background music, you can control the music.

Select Background Music from among the on-screen control buttons and select Mini Player.

Users can pause playback or skip to the previous or next song.

Additional Photo Playback Settings

- **Zoom**: Select the Zoom on-screen button. Zoom in by up to a factor of 4.

- **Rotate**: Select the Rotate on-screen button. This rotates the current photo 90 degrees clockwise.

- **Picture Size**: Select the Picture Size on-screen button and then select the picture size.

- **Receiver**: Select the Receiver on-screen button and then power on the receiver.

- **Picture Mode**: Select the Settings on-screen button and then select Picture Mode. Select a picture mode.

- **Sound Mode**: Select the Settings on-screen button and then select Sound Mode. Select a sound mode. However, this option is not available while background music is playing.

- **Information**: Select the Settings on-screen button and then select Information to view detailed information about the current video.

Anynet+ (HDMI-CEC)

This SMART TV is enabled with Anynet+ (HDMI-CEC), a feature that makes it possible to control Samsung external devices connected to the TV with ease. With Anynet+ (HDMI-CEC), you can use the TV remote control to operate all compatible Samsung devices that are connected to the TV. However, Anynet+ (HDMI-CEC) only works with the remote control and not with the panel keys.

> ✎ Use the TV's remote control to operate third-party cable boxes, Blu-ray players, and home theaters connected to the TV. For more information, refer to "Universal Remote Control Setup".

Precautions

- This feature does not support other manufacturer's products.

- Anynet+ devices must be connected to the TV using an HDMI cable. Some HDMI cables may not support Anynet+ (HDMI-CEC). In this case, you will need to replace the HDMI cable.

- The TV remote control may not function under certain circumstances. In this case, select the Anynet+ device again.

- Anynet+ (HDMI-CEC) only works with external devices that support Anynet+ (HDMI-CEC) and only when those devices are either in standby mode or turned on.

- Anynet+ (HDMI-CEC) can control up to 12 compatible external devices (up to 3 of the same type). With home theater systems, however, the number of systems that can be controlled is limited to one.

- A home theater system that has been connected to the TV using an HDMI cable and an optical cable supports 2-channel audio only. However, the home theater is capable of supporting 5.1-channel audio from digital broadcasts.

- To listen to 5.1-channel audio from an external device, connect the device to the TV via an HDMI cable and the device's digital audio output connector directly to the home theater system.

Anynet+ (HDMI-CEC) Setup

가상리모컨🗗 > Menu🎞 > System > Anynet+ (HDMI-CEC) `Try Now`

Enable/disable Anynet+ (HDMI-CEC).

- **Anynet+ (HDMI-CEC)**: Enables/disables Anynet+ (HDMI-CEC). Disabling this turns off all Anynet+-related features. `Try Now`

- **Auto Turn Off**: Turns off external devices when the TV is turned off. Some devices do not support this option. `Try Now`

Using the Anynet+ (HDMI-CEC)

Users can operate external devices using just the TV remote control.

Switching between Anynet+ Devices

1. Select the **간편메뉴** button on the virtual remote panel and then **Anynet+ (HDMI-CEC)** from the list. A device selection screen will appear.

2. Select a device and wait for the switch to take place. This process may take up to 2 minutes to complete and cannot be cancelled when started.

Anynet+ (HDMI-CEC) Device Menu

Once the TV has switched over to the selected device, you can access the device's menu using the TV's remote control. Select the **간편메뉴** button on the virtual remote panel. The following options will appear.

🖉 The items displayed by **Tools** may vary, depending on the external device.

- **Anynet+ (HDMI-CEC)**: A list appears showing Anynet+ compatible ones of external devices connected to the TV. Either choose View TV to close the current Anynet+ and watch TV, or choose an external device to switch to the device.

- (Connected Device) **MENU**: Display the menu of the connected device. If the target device is a DVD player, the DVD menu is shown.

- (Connected Device) **Tools**: Display a list of frequently-used functions that are available for the device. If the target device is a DVD player, the DVD playback menu is shown. Some external devices may not support this option.

- (Connected Device) **Title Menu**: Display the connected device's title menu. If the target device is a DVD player, the DVD title menu is shown. Some external devices may not support this option.

ARC

ARC enables digital sound to be output using just an HDMI cable. However, ARC is only available with AV receivers that support ARC.

Sharing Mobile Device Screens on the TV

This TV is capable of displaying mobile device screens. Users can use the following features to enjoy video, photo, and music files from mobile devices directly on your TV.

- Use an MHL cable to display a mobile device's screen on the TV.

- Use the **Screen Mirroring** menu to display a mobile device's screen on the TV.

MHL

This Smart TV supports MHL (Mobile High-definition Link) via an MHL cable. Connect an MHL cable to the mobile device and the TV. However, MHL is only available through the TV's HDMI (MHL) port and only when used in conjunction with an MHL-enabled mobile device.

This feature is only available with MHL-certified mobile devices. To find out if your mobile device is certified, visit its manufacturer's website. Users can also view a list of MHL-certified devices on the official MHL website (http://www.mhlconsortium.org).

MHL USE

Connect an MHL cable to the mobile device and the TV. Press the **외부입력** button and then select the MHL connector to display the mobile device's screen on the TV. The following remote control functions will also be available:

- Touch pad (Menu navigation / Select), ◄◄ (REW), ►► (FF), ► (Play), ⏸ (Pause), ■ (Stop), ⤒ (Previous menu)

🖉 When your device is connected with an MHL cable, it charges even when the TV is in Standby mode.

Restrictions

MHL has several requirements:

- If you are using an HDMI adapter, the TV recognizes the signal as an HDMI signal and may respond differently than it would to an MHL-to-HDMI cable connection.

- Upgrade the software to the latest version.

- This product is officially MHL-certified. If users encounter any problem when using the MHL function, they must contact the manufacturer of the device.

- Some mobile devices may not have sufficient specifications or features to support MHL.

- Because the TV screen is wider than most mobile device screens, the picture quality may appear lower on the TV.

Screen Mirroring

This TV displays a mobile device's screen on your TV wirelessly. However, Screen Mirroring is only available with mobile devices that support AllShare Cast or WiDi 3.5. For more information, visit the mobile device manufacturer's website.

✎ Depending on the network condition, screen or sound dropouts may occur when the Screen Mirroring function is running.

Mobile Device Connection

Run Screen Mirroring (Network > AllShare Settings > Screen Mirroring) function. Alternatively, press the 외부입력 button and select Screen Mirroring from the source list. After running the Screen Mirroring, run Mirroring function on the mobile device. The TV will connect with the mobile device, and user can view the connected mobile device's screen on the TV.

Support
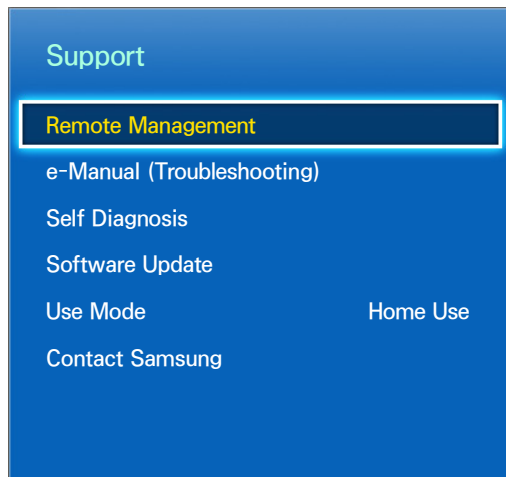
✎ The displayed image may differ depending on the model.

The TV has several built-in systems designed for user and TV system support.

Remote Management

가상리모컨🗗 > Menu▥ > Support > Remote Management `Try Now`

If you need assistance with your TV, you can use this feature to let Samsung Electronics diagnose your TV remotely. Users will need to read and agree to the service agreement before using this feature. A Samsung Electronics technician will then diagnose, repair, and update your TV remotely. However, these features are only available when your TV is connected to the Internet.

e-Manual

가상리모컨🗗 > Menu▥ > Support > e-Manual (Troubleshooting)

This TV features a built-in electronic user manual. For details on how to use the e-Manual, See "Viewing the e-Manual"

Self Diagnosis

가상리모컨🗗 > Menu▥ > Support > Self Diagnosis `Try Now`

This TV is capable of diagnosing itself for picture-, sound-, and signal-related issues. The self-diagnosis function consists of the following options:

- Picture Test

- Sound Test

- Voice & Motion Control Environment Check

- Signal Information

- Reset

Picture Test

가상리모컨⬚ > Menu⬚ > Support > Self Diagnosis > Picture Test `Try Now`

The Picture Test displays a high definition picture to examine it for flaws or faults.

If the test picture does not appear or there is noise or distortion, the TV may have a problem. Contact Samsung's Call Center for assistance. If the test picture is displayed properly, there may be a problem with the external device. Please check the connections. If the problem persists, check the signal strength or refer to the external device's user manual.

Sound Test

가상리모컨⬚ > Menu⬚ > Support > Self Diagnosis > Sound Test `Try Now`

Use the built-in melody to check for sound problems.

If no melody is played by the TV's speakers, make sure Speaker Select is set to TV Speaker and then try again. If the problem persists, there may be a problem with the TV. Contact Samsung's Call Center for assistance. If the melody is played, there may be a problem with the external device. Please check the connections. If the problem persists, refer to the external device's user manual.

Voice & Motion Control Environment Check

가상리모컨⬚ > Menu⬚ > Support > Self Diagnosis > Voice & Motion Control Environment Check `Try Now`

Test the the ambient noise and brightness levels to see if they are suitable for SMART Interaction use.

Signal Information

가상리모컨⬚ > Menu⬚ > Support > Self Diagnosis > Signal Information `Try Now`

The signal Information displays the digital channel signal information and strength. Users can then adjust the antenna to increase the signal strength and receive HD channels. This option is only available for digital channels.

Reset

가상리모컨⬚ > Menu⬚ > Support > Self Diagnosis > Reset `Try Now`

This resets all settings to the factory default settings except for the network settings. Select Reset, enter the PIN code when requested, and then select Yes. All settings are then reset. The TV turns off and on again automatically and then displays the Setup screen. For more information on resetting the TV, refer to the user manual that came with the TV.

Software Update

가상리모컨 > **Menu** > **Support** > **Software Update** `Try Now`

Check your TV's software version and upgrade it if necessary.

⚠ **DO NOT turn off the TV's power until the upgrade is complete. The TV will turn off and on automatically after completing the software upgrade. All video and audio settings return to the default settings after a software upgrade.**

Update now

가상리모컨 > **Menu** > **Support** > **Software Update** > **Update now** `Try Now`

An online upgrade downloads and installs the upgrade software directly from the Internet. Configure the TV to connect to a network and make sure it can access the Internet.

Software Update using USB Device

Download the latest update file from the Samsung website. Decompress the file and copy it into the root directory of a flash drive. Insert the flash drive one of the TV's USB ports to install the update.

Auto Update

가상리모컨 > **Menu** > **Support** > **Software Update** > **Auto Update** `Try Now`

This option upgrades the TV while it is in Standby Mode. In Standby Mode, the TV appears to be turned off but still has access to the Internet. This allows the TV to upgrade itself automatically while it is not in use. Because the TV's internal processes are operating, the screen may emit a faint glow, and this may continue for more than 1 hour until the software download is complete. Check the network configuration and internet connectivity and then enable this option.

Standby Mode Upgrade Settings

Specify when you want the upgrade to take place. This TV can be set to periodically check and install updates. Choose one of the preset time slots.

Use Mode

가상리모컨⬚ > Menu⬚ > Support > Use Mode Try Now

Select the TV's usage mode. If your TV has been unintentionally set to Store Demo, you can change the mode with this option. Store Demo should be used in retail environments only. With Store Demo, certain functions are disabled and the TV automatically resets itself after a certain amount of time.

Support Info

가상리모컨⬚ > Menu⬚ > Support > Contact Samsung Try Now

Check the information below if your TV is not working properly or you need information on upgrading the software. The section below contains useful information about the product and instruction on obtaining the latest software.

Kensington Security Lock

This function is only available for LED 7400, 7500 series model.

A Kensington Security Lock is a physical device that can be used to protect the TV against theft. Look for the Kensington slot on the back of the TV. The slot has a ⬚ icon next to it. Wrap the lock around an object that is too heavy to carry and then thread it through the TV's Kensington slot. The lock, however, has to be purchased separately.

The method of using a Kensington Security Lock may differ for each TV model. Refer to the Kensington Security Lock manual for more information.

Display Resolution

Connect a computer to the TV and then configure the computer's resolution by referencing the table below. The optimal resolution is 1920 x 1080 @ 60Hz. Choosing an output signal not included in the table can result in a blank screen or just the power indicator being turned on. Refer to the user manual of the graphics card and configure the resolution as indicated below.

IBM

Resolution (Dots x Lines)	Standard Frequency	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)	Polarity (Horizontal / Vertical)
720 x 400	70Hz	31.469	70.087	28.322	-/+

MAC

Resolution (Dots x Lines)	Standard Frequency	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)	Polarity (Horizontal / Vertical)
640 x 480	67Hz	35.000	66.667	30.240	-/-
832 x 624	75Hz	49.726	74.551	57.284	-/-
1152 x 870	75Hz	68.681	75.062	100.000	-/-

VESA DMT

Resolution (Dots x Lines)	Standard Frequency	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)	Polarity (Horizontal / Vertical)
640 x 480	60Hz	31.469	59.940	25.175	-/-
640 x 480	72Hz	37.861	72.809	31.500	-/-
640 x 480	75Hz	37.500	75.000	31.500	-/-
800 x 600	60Hz	37.879	60.317	40.000	+/+
800 x 600	72Hz	48.077	72.188	50.000	+/+
800 x 600	75Hz	46.875	75.000	49.500	+/+
1024 x 768	60Hz	48.363	60.004	65.000	-/-
1024 x 768	70Hz	56.476	70.069	75.000	-/-
1024 x 768	75Hz	60.023	75.029	78.750	+/+
1152 x 864	75Hz	67.500	75.000	108.000	+/+
1280 x 720	60Hz	45.000	60.000	74.250	+/+
1280 x 800	60Hz	49.702	59.810	83.500	-/+
1280 x 1024	60Hz	63.981	60.020	108.000	+/+
1280 x 1024	75Hz	79.976	75.025	135.000	+/+
1366 x 768	60Hz	47.712	59.790	85.500	+/+
1440 x 900	60Hz	55.935	59.887	106.500	-/+
1600 x 900RB	60Hz	60.000	60.000	108.000	+/+
1680 x 1050	60Hz	65.290	59.954	146.250	-/+
1920 x 1080	60Hz	67.500	60.000	148.500	+/+

Picture Size and Input Signal

Input Signal	Picture Size
ATV, AV	16:9, Zoom1, Zoom2, 4:3
Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
Component (720p)	16:9, Wide Fit, 4:3
Component (1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit
DTV (720p)	16:9, Wide Fit, 4:3, Smart View 2
DTV (1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit, Smart View 2
HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit, Smart View 1, Smart View 2
HDMI (2160p) (for UHD F9000 and S9 series models only)	Screen Fit

The Picture Size setting is applied to the current source and the applied Picture Size will remain in effect the next time the source is selected.

✎ The Picture Size option is not available with images in the UHD resolution because the supported screen size is fixed.

Supported 3D Resolutions

These specifications apply to a display ratio of 16:9 only.

HDMI

3D Format: L/R, T/B

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60
3840 x 2160p (for UHD F9000 and S9 series models only)	24 / 25 / 30

3D Format: Frame Packing

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30

Component

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60
1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60

Digital Channel

Resolution	Frequency (Hz)
1280 x 720p	59.94 / 60
1920 x 1080i	59.94 / 60

Videos/Photos

Refer to the "Subtitle and Media Contents file formats, and Codec".

Computer via HDMI

The optimal resolution for using the computer display is 1920 x 1080. If the resolution is not set properly, 3D display and full-screen display may not be available.

3D Precautions

⚠ **Viewing guidelines**

- In 3D view mode, the screen may flicker under florescent lighting (50Hz ~ 60Hz) or three-wave lighting.

  ✎ In this case, it is advisable to turn off the lighting or adjust it to a low level.

- When switching the picture mode from 3D view, the 3D view mode turns off, and the Samsung Multi View 3D Glasses fail to operate, resulting in the display not operating properly.

  ✎ Then, the 3D glasses turn off.

- If you lie on your side while watching TV with the 3D glasses, the picture may look darker or may not be visible.

- If the 3D glasses are defective or damaged, they cannot be repaired and should be exchanged for a new pair. The repair service is free of charge within the warranty period, which, however, does not cover damage from the user's fault.

- The actual 3D effect may be experienced differently depending on the viewer. The 3D effect may not be experienced by a person who has a great difference of vision in the left and right eyes.

- In 3D view mode, it is advisable to watch TV within the recommended distance.

  ✎ The 3D function of the glasses may not work properly if you are out of the recommended distance for about 3 seconds.

  ✎ If you stay out of the recommended range, the 3D glasses lose the wireless communications with the TV, and then the display turns off in few seconds before the glasses turn off.

- The 3D glasses may not work properly if there are any nearby active 3D devices or electronic or wireless communication devices (for example, a device that uses the 2.4GHz or 5GHz frequency range such as a microwave or AP). In this case, move the devices away from the 3D glasses.

- The Samsung Multi View 3D Glasses may not work properly near metal objects or in an electromagnetic field. In this case, move the metal objects or the electromagnetic device away from the 3D glasses.

- The vividness of the image may be deteriorated if you watch TV in a location that is exposed to direct sunlight or illumination.

- The temples of the 3D glasses are unfolded. Do not attempt to fold the temples with excessive force. This may damage the 3D glasses.

- If you lie on your side while watching TV with the 3D glasses, the picture may look darker or may not be visible.

- If watching 3D content for an extended time without averting your eyes elsewhere, the 3D glasses may turn off automatically. (for SSG-3570 models only)

- Take off the 3D glasses and put them on again if it does not work in 3D view mode in the first place. (for SSG-3570 models only)

⚠ CAUTION!

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D IMAGES. READ THE FOLLOWING CAUTIONS BEFORE YOU OR YOUR CHILD USE THE 3D FUNCTION.

- Adults should frequently check on children who are using the 3D function. If there are any complaints of tired eyes, headaches, dizziness or nausea, stop the child from viewing the 3D TV and ensure that they rest.

- Do not use the 3D glasses for any purpose other than the intended purpose, such as general eyeglasses, sunglasses, protective goggles.

- Some viewers may experience discomfort such as dizziness, nausea and headaches while viewing 3D TV. If you experience any of these symptoms, stop watching the 3D content, remove the 3D glasses, and take a rest.

- An extended period of watching TV in 3D view mode may cause eye fatigue. In this case, stop watching the 3D content immediately, take off the 3D glasses and allow your eyes to rest.

- Do not use the 3D function or the 3D glasses while walking or moving around. Wearing the 3D glasses while moving around may result in injury due to running into objects, tripping and/or falling.

- If you sleep with the 3D glasses on, the temples on the glasses may become broken.

- The temples of the 3D glasses are unfolded. Do not attempt to fold the temples with excessive force. Folding the temples with excessive force may damage the 3D glasses.

- Do not shake your 3D glasses repeatedly. Shaking the glasses will power them on and can cause the battery to discharge faster than it should. (for SSG-3570 models only)

⚠ SAFETY PRECAUTIONS

The following safety instructions are to ensure your personal safety and prevent property damage. Please read them to ensure the proper use of the product.

- Do not place the product in a location exposed to direct sunlight, heat, fire, or water. Exposure may result in a product malfunction or fire.

- Do not apply force to the lenses of the 3D glasses. Do not drop or bend the product. Applying force, dropping, or bending may result in a product malfunction.

- Keep components of the 3D glasses out of reach of children, and especially ensure children do not swallow one of the components. If your child swallowed a component, consult your doctor immediately.

- When cleaning the product, do not spray water or cleaner directly onto the surface of the product. Spraying water or cleaner directly onto the glasses may result in fire or electric shock, damage to the product's surface, or cause the indicator labels on the product's surface to come loose.

- Do not apply chemicals containing alcohol, solvent, or surfactant such as wax, benzene, thinner, pesticide, air freshener, lubricant, or cleaner to the product. These chemicals may cause the product's exterior to be discolored or cracked, or labels or instructions to be removed. Use only a soft cloth such as superfine fibers or cotton flannels for cleaning the product as the surface or the lenses easily cracks. Because the product can be easily scratched with foreign substances, make sure to dust off the cloth before using.

- Do not sleep while wearing the 3D glasses. Wearing the 3D glasses while sleeping may damage them.

- Do not disassemble, repair, or modify the 3D glasses by yourself. Do not use a product that is damaged.

- Take care that you do not injure your eyes with the edges of the frame of the 3D glasses when wearing them.

- Put the 3D glasses on and take them off with both hands.

- Use only approved batteries, and make sure to insert the batteries in the correct polarities. If the batteries are replaced in the wrong polarities, the batteries may implode or leak its internal chemicals, which may cause fire, inflict injury on users, or contaminate (damage) its environment. (for SSG-5100 models only)

- Keep the removed batteries out of childrens' reach to prevent children from swallowing them. If they swallow them, consult with a doctor immediately. (for SSG-5100 models only)

Subtitle and Media Contents file formats, and Codec

Subtitle

External

Name	File Extension
MPEG-4 Timed text	.ttxt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass
Powerdivx	.psb

Internal

Name	Container
Xsub	AVI
SubStation Alpha	MKV
Advanced SubStation Alpha	MKV
SubRip	MKV
MPEG-4 Timed text	MP4

Supported image resolutions

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360x8640
*.png	PNG	4096x4096
*.bmp	BMP	4096x4096
*.mpo	MPO	15360x8640

Supported music file formats

File Extension	Type	Codec	Comments
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported. Supports up to M2 profile
*.wav	wav	wav	
*.mid *.midi	midi	midi	type 0, type 1 are supported.
*.ape	ape	ape	

Video Codec

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.mov *.flv *.vob *.svi *.m2ts	AVI MKV ASF MP4 3GP MOV FLV VRO TS SVAF	Divx 3.11 / 4 / 5 / 6	1920x1080 (WMV v7,v8, MSMPEG4 v3: 1280x720)	6~30	30	AC3 LPCM ADPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3)
		MPEG4 SP/ASP				
		H.264 BP/MP/HP				
		Motion JPEG				
		Microsoft MPEG-4 v3				
		Window Media Video v7,v8,v9				
		MPEG2				
		MPEG1				
		VP6	640x480		4	
		MVC		24/25/30	60	
*.webm	WebM	VP8	1920x1080	6~30	20	Vorbis
*.s4ud	S4UD	H.264	3840x2160	24/25/30		AC3

Other Restrictions

Codecs may not function properly if there is a problem with the content data.

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 wrong, the Seek (Jump) function does 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 player.

The S4UD format supports only on the UHD F9000 and S9 series models. However, the Picture Size and the Rotate functions are not supported.

The S4UD format is used for content officially provided by Samsung Electronics. These files can be played only from a USB storage device. Playing them via DLNA or streaming is impossible.

Video Decoders

- Supports up to H.264, Level 4.1 (does not support FMO/ASO/RS)

- VC1 AP L4 is not supported.

- All video codecs excluding WMV v7, v8, MSMPEG4 v3, MVC, and VP6:

  Below 1280 x 720: 60 frame max

  Above 1280 x 720: 30 frame max

- GMC 2 over is not supported.

- Supports SVAF top/bottom and left/right only.

- Supports Blu-ray/DVD MVC specs only.

Audio Decoders

- WMA 10 Pro supports up to 5.1 channels. Supports up to M2 profile.

- WMA lossless audio is not supported.

- QCELP, AMR NB / WB is not supported.

- Vorbis is supported for up to 2 channels.

- DD+ is supported for up to 5.1 channels.

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Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

dts Premium Sound | 5.1

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MHL

Picture

If there is a problem with the screen, run **Picture Test** (**Support** > **Self Diagnosis** > **Picture Test**) to diagnose the issue. If the test fails to identify a problem, there may be a problem with an external device or the signal strength.

There is something wrong with the TV.	Try this!
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of the energy efficiency features. Disable **Energy Saving** (**System** > **Eco Solution** > **Eco Sensor**) and/or **Energy Saving** (**System** > **Eco Solution** > **Energy Saving**) and check again.
Component Connections/Screen Color	If you find that the color on your Samsung television screen is not correct or the black and white colors are off, run **Self Diagnosis** (**Support** > **Self Diagnosis** > **Picture Test**). If the test results are negative, check the following: Are the TV's video input connectors connected to the correct external device video output connectors? Check other connections as well. If the TV is connected to an external device via a component cable, check that the Pb, Pr, and Y jacks are plugged into their proper connectors.
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, try adjusting the following settings first. Navigate to **Picture** and adjust **Backlight**/**Cell Light** (applicable models), **Contrast**, **Brightness**, **Sharpness**, **Color**, **Tint (G/R)** and other picture quality adjustment settings.
Auto Motion Plus/Blur	If you find that there is a blur or "ghost" shadow to the images on your television screen, you might be able to correct the issue using **Auto Motion Plus** (**System** > **General** > **Auto Motion Plus**).
Unwanted Powering Off	If your Samsung TV appears to turn off by itself, try disabling some of the TV's energy efficiency features. Check if **Sleep Timer** (**System** > **Time** > **Sleep Timer**) has been enabled. **Sleep Timer** automatically turns off the TV to save energy after a specified period of inactivity. If the Sleep Timer has not been enabled, see if **No Signal Power Off** (**System** > **Eco Solution** > **No Signal Power Off**) or **Auto Power Off** (**System** > **Eco Solution** > **Auto Power Off**) has been enabled.
Problems Powering On	When the TV is turned on, the remote control receiver flashes 5 times before the screen turns on. If you find that you are having problems powering on your Samsung television, there are a number of things to check before calling the service department. If the power cord is connected properly and the remote control is operating normally, the problem might be with the antenna cable connection or the cable/satellite box not being turned on. Check the antenna connection or turn on the cable/satellite box.

There is something wrong with the TV.	Try this!
Unable to find a Channel	Run Setup (System > Setup) or Auto Program (Broadcasting > Auto Program).
The TV image does not look as good as it did in the store.	Store displays are all tuned to digital, HD (high definition) channels. If you have an analog cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. Many HD channels are upscaled from SD (Standard Definition) content. Look for a channel that is broadcasting true HD content. Cable/Satellite Subscribers: Try HD channels from the channel lineup. Air/Cable Antenna Connection: Try HD channels after performing the Auto Program operation. Adjust the cable/satellite box's video output resolution to 1080i or 720p.
The picture is distorted.	The compression of video content may cause picture distortions, especially in fast moving pictures such as sports and action movies. A weak or bad quality signal can cause picture distortions. This is not an issue with the TV. Mobile phones used close to the TV (within 1m) may cause noise in analog and digital channels.
The color is wrong or missing.	If you're using a Component connection, make sure that the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
The color is poor or the picture is not bright enough.	Navigate to Picture and adjust Picture Mode, Brightness, Sharpness, Color, and other picture adjustment settings. See if Energy Saving (System > Eco Solution > Energy Saving) has been enabled. Try resetting the picture. (Picture > Reset Picture)
There is a dotted line on the edge of the screen.	If Picture Size is set to Screen Fit, change it to 16:9. Change the cable/satellite box resolution.
The picture is black and white.	If you are using AV composite input, connect the video cable (yellow) to the TV's green component jack.
The color is wrong or missing.	If you are using a Component connection, make sure that the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.

Sound

If you find that there is a problem with the TV's speakers, run Sound Test (Support > Self Diagnosis > Sound Test) to diagnose the issue. If the audio is OK, the sound problem may be caused by the source or signal.

There is something wrong with the TV.	Try this!
There is no sound or the sound is too low at maximum volume.	Please check the volume of the device (cable/satellite box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good but there is no sound.	Navigate to Sound and set Speaker Select to TV Speaker. 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.) If you are using a DVI to HDMI cable, a separate audio cable is required. 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.
The speakers are making an odd sound.	Make sure that the audio cable is connected to the correct audio output connector on the external device. For antenna or cable connections, check the signal information. A low signal level may cause sound distortions. Run Self Diagnosis (Support > Self Diagnosis > Sound Test).

3D TV

There is something wrong with the TV.	Try this!
The 3D Active Glasses are not working correctly.	Make sure the glasses are turned on. The 3D Active Glasses may not work properly if there is another 3D product or electronic device turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.
The 3D images don't look quite right.	The ideal viewing distance is three times or more the height of the screen. We also recommend sitting with your eyes level with the screen.
The batteries in the 3D glasses don't last.	Turn off the 3D glasses when you are not using them. If you leave the 3D glasses on, the battery lifespan is shortened.

Antenna (Air/Cable) Connection

There is something wrong with the TV.	Try this!
The TV is not receiving all channels.	Make sure the coaxial cable is connected securely. Run Auto Program (Broadcasting > Auto Program) to add all available channels to the channel list. Verify that the antenna is positioned correctly.
There are no captions on digital channels.	Navigate to Caption (Broadcasting > Caption) and change the Caption Mode setting. Some channels may not have caption data.
The picture is distorted.	The compression of video content may cause picture distortions. This is especially true with fast moving pictures such as sports and action movies. A weak signal can cause picture distortions. This is not a problem with the TV.

PC Connection

There is something wrong with the TV.	Try this!
The "Mode Not Supported" message appears.	Set your PC's output resolution so it matches a resolution supported by the TV.
The video is OK but there is no audio.	If you are using an HDMI connection, check the audio output setting on your PC. If you are using a DVI to HDMI cable, a separate audio cable is required.

Networking

There is something wrong with the TV.	Try this!
The wireless network connection failed.	Make sure the TV is connected to a wireless IP router.
The Software Update over the network has failed.	Check the network connection status. If the TV is not connected to a network, connect to a network. The upgrade will not proceed if you already have the latest software version.

Miscellaneous

There is something wrong with the TV.	Try this!
The TV is hot.	Watching TV for an extended period of time causes the panel to generate heat. The heat from the panel is dissipated through internal vents running along the top part of the TV. The bottom portion, 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 picture won't display in full screen.	HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) content. Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV. Adjust the picture size options on your external device or set the TV to full screen.
The "Mode Not Supported" message appears.	Check the supported resolutions of the TV and adjust the external device's output resolution accordingly.
The Captions item in the TV menu is grayed out.	Users cannot select the Caption menu if you have selected a source connected to the TV via HDMI or Component. The external device's caption function must also be activated.
The TV smells of plastic.	This smell is normal and will dissipate over time.
The TV's Signal Information option is not activated in the Self Diagnosis.	Verify that the current channel is a digital channel. Signal Information is only available with digital channels.
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.
Broadcasting is grayed out.	The Broadcasting menu is only available when Source is set to TV. The Broadcasting menu cannot be accessed while watching TV using a cable box or satellite receiver.
The settings are lost after 30 minutes or every time the TV is turned off.	If Use Mode is set to Store Demo, the TV's audio and video settings are automatically reset every 30 minutes. Change Use Mode (Support > Use Mode) to Home Use.
There is an intermittent loss of audio or video.	Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If you are mounting the TV to a wall, we recommend using cables with 90-degree connectors.

There is something wrong with the TV.	Try this!
There are small particles on the TV's bezel.	This is part of the product's design and is not a defect.
The PIP menu is not available.	PIP functionality is only available when you are using an HDMI or Component source.
A POP (TV's internal banner ad) appears on the screen.	Change Use Mode (Support > Use Mode) to Home Use.
The TV is making a popping noise.	The expansion and contraction of the TV's outer casing may cause a popping noise. This does not indicate a product malfunction. The TV is safe to use.
The TV is making a humming noise.	This TV utilizes high-speed switching circuits and high levels of electrical current, and depending on the brightness level being used may seem slightly noisier than a conventional TV. This 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.

Schedule Recording/Time Shift

There is something wrong with the TV.	Try this!
The TV cannot recognize the USB device or failing Device Format, Check Device, and Device Performance Test.	Refer to the USB device's manual and see if data can be stored on it. Check if the USB device is in a locked state. Check if the USB device was formatted when it was connected to a computer. Formatting a USB device after connecting it to the TV may result in a formatting failure. If Device Performance Test or Device Format has failed, there may be a problem with the USB device or its specifications. Try using a different USB device.
There is a message saying I need to format the USB storage device.	Check if the USB device is in a locked state. Use the USB recovery function to recover the USB device.
Schedule Recording cannot be used.	Check if there is a USB device connected to the TV. Check if the channel is a digital channel that can be recorded. Recording will automatically stop if the signal becomes too weak. The Time Shift function will not work if there isn't enough storage space on the USB device.
I get a performance test failure message and then Schedule Recording and the Time Shift operation stops working.	This problem can occur when using a low-performance USB storage device that does not support recording. A USB hard drive with a speed of 5,400rpm or above is recommended. However, RAID-type USB hard drives are not supported.

Anynet+ (HDMI-CEC)

There is something wrong with the TV.	Try this!
Anynet+ does not work.	Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. Only one external device may be connected to Receiver. Check if the power cord of the Anynet+ device is properly connected. Check the cable connections of the Anynet+ device. Navigate to the System menu and verify that Anynet+ (HDMI-CEC) is set to On. Check whether the TV remote control is in TV mode. Check whether the remote control is Anynet+ compatible. Anynet+ may not function under certain circumstances. (Searching channels, operating Smart Hub or Setup, etc.) If you have disconnected and then reconnected the HDMI cable, scan for devices again or turn your TV off and on.
I want to start Anynet+.	Check if the Anynet+ device is properly connected to the TV and then navigate to the System menu to see if Anynet+ (HDMI-CEC) is set to On. After checking, press 간편메뉴 button, select Anynet+ (HDMI-CEC) and then choose a device.
I want to exit Anynet+.	Select View TV from the Anynet+ menu. Select a non-Anynet+ device from Source.
The message "Connecting to Anynet+ device..." or "Disconnecting from Anynet+ device" appears on the screen.	Users cannot use the remote control when you are configuring Anynet+ or switching to a viewing mode. Use the remote control after the TV has completed the Anynet+ configuration or has switched to a viewing mode.
The Anynet+ device won't play.	Users cannot use the play function when Setup is progress.
The connected device is not displayed.	Check whether the device supports Anynet+. Check whether the HDMI cable is properly connected. Navigate to the System menu and verify that Anynet+ (HDMI-CEC) is set to On. Scan for Anynet+ devices again. 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+. 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.
The TV audio is not being played through the receiver.	Connect an optical cable to the TV and the receiver. ARC enables digital sound to be output via the HDMI (ARC) port. However, ARC is only available when the TV is connected to an audio receiver that supports ARC.

Apps

There is something wrong with the TV.	Try this!
Some application content only appears in English. How can I change the language?	The application content language may be different from the user interface language. The ability to change the language depends on the service provider.
Some application services do not work.	Check with the service provider. Refer to the help section on the application service provider's website.

Photos, Videos & Music

There is something wrong with the TV.	Try this!
Some files can't be played back.	This problem may occur with high-bitrate files. Most files can be played back, but you might experience problems with high-bitrate files.

Reset the Personal Info and TV settings

Reset Type	Navigation	Description
TV settings Reset	가상리모컨 > Menu > Support > Self Diagnosis > Reset	Reset all the settings (Picture, Sound, Broadcasting and Smart Hub, etc), excluding the network settings, to factory defaults.
Smart Hub Reset	가상리모컨 > Menu > Smart Features > Smart Hub Reset	Reset all saved information relating to Samsung accounts and linked service accounts, as well as Smart Hub service agreements and applications.

Web Browser

1. Select **Web Browser**. The browsing screen may differ from the one on your computer.

2. The web browser is not compatible with Java applications.

3. Users cannot download files. If you attempt to download a file, you will receive an error message instead.

4. The web browser may not be able to access certain websites.

5. Playing Flash videos may be restricted.

6. E-commerce for online purchases is not supported.

7. With websites that have scrollable windows, scrolling through such a window can result in corrupted characters.

8. ActiveX is not supported.

9. Certain options are not accessible in Link Browsing mode. (Switch to Pointer Browsing to activate this.)

10. Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.

11. The response to remote commands and the resulting on-screen display may be delayed while a webpage is loading.

12. Loading a webpage may be delayed or suspended completely with certain operating systems.

13. The copy and paste operations are not supported.

14. When composing an email or a simple message, certain functions such as the font size and color selection may not be available.

15. There is a limit to the number of bookmarks and the size of the log file that can be saved.

16. The number of windows that can be opened concurrently varies depending on the search conditions and the TV model.

17. The web browsing speed will vary depending on the network environment.

18. Playing embedded video automatically disables PIP. Video playback may not commence after PIP is disabled. In this case, you will have to reload the page.

19. The web browser supports .mp3 audio files only.

20. The web browser supports a specific file format for importing and exporting bookmarks. (Compatible Format: Netscape-bookmarkfile- 1)

21. The folder tree information is not included when importing and exporting bookmarks.

22. Exporting bookmarks to a USB device connected to the TV saves the bookmarks under a folder named "Samsung SmartTV Bookmark".

23. If Clock (System > Time > Clock) has not been enabled, the browsing history will not be saved.

24. The browsing history is saved in the order of latest to oldest, with the oldest entries being overwritten first.

25. Depending on the types of video/audio codecs supported, it might not be possible to play back certain video and audio files during Flash playback.

26. Video sources from PC-optimized streaming service providers may not play properly on our proprietary web browser.

27. Using the on-screen QWERTY keyboard automatically disables PIP. (Except when entering a URL.)