

# E-MANUAL

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Model\_\_\_\_\_ Serial No.\_\_\_\_\_

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License

#### Glossary

# **Using Smart Hub**

Usability depends on your specific model and local region.

Connection and set up is not necessary if you connected the TV to the Internet and set up Smart Hub during the Initial Set up.



### 2 Setting up Smart Hub The first time you start Smart Hub, you need to set it up. Follow the directions on the screen.



| 3 Using | Smart Hub  |                    |                 |       |
|---------|------------|--------------------|-----------------|-------|
| ~       |            | vnload application | ns from Samsung | Apps. |
| SAN     | MSUNG APPS |                    | 44 1994 31      |       |
|         |            |                    | <b>V</b>        |       |
| <       | S. 5       |                    |                 | >     |
|         |            |                    |                 |       |
| 2       |            |                    |                 |       |

Error more information, refer to "Smart Hub".

# **Using Voice Control**

| 1 Setting up  | Voice Control                                    |                    |                    |  |
|---|--|--------------------|--------------------|--|
| Set up Voice Control v                              | ∕ia MENU > System > Vo                           | ice Control.       |                    |  |
|   |  |                    |                    |  |
|   | System   |                    |                    |  |
| ·····································               | Accessibility                                    |                    |                    |  |
|   | Setup  |                    |                    |  |
|   | Menu Language                                    | English            |                    |  |
| 말랐다. 말랐는 방소, 도랑고                                    | Smart Control Settings<br>Universal Remote Setup |                    |                    |  |
|   | Voice Control                                    |                    |                    |  |
|   | Motion Control                                   | On                 |                    |  |
|   | ~  |                    |                    |  |
|   |  |                    |                    |  |
|   |  |                    |                    |  |
|   |  |                    |                    |  |
| 2 Using Void  | e Control  |                    |                    |  |
|   | e control  |                    |                    |  |
| Press the VOICE butto<br>commands.                  | n on the Samsung Smar                            | t Control, and the | en say the desired |  |
|   |  |                    |                    |  |
|   |  |                    |                    |  |
|   |  |                    |                    |  |
|   |  |                    |                    |  |
|   |  |                    |                    |  |
| () ) ()<br>() () () () () () () () () () () () () ( |  | -                  |                    |  |
|   |  |                    |                    |  |
| SURFACE A   |  |                    |                    |  |
|   |  |                    |                    |  |
|   |  |                    |                    |  |

For more information, refer to "Controlling the TV with Your Voice (Voice Control)".

# **Using Motion Control**

| ~                    |   |  |  |  |
|----------------------|---|--|--|--|
| 1 Setting up         | 1 Setting up Motion Control   |  |  |  |
| Set up parameters fo | Set up parameters for Motion Control via MENU > System > Motion Control.  |  |  |  |
|                      | <u> 전 문행 모양 명구 있는 것 같이 있는 것 같은 것 같은 것 같은 것 같이 없다.</u>   |  |  |  |
|                      | System  |  |  |  |
|                      | Accessibility   |  |  |  |
|                      | Setup   |  |  |  |
|                      | Menu Language English   |  |  |  |
|                      | Smart Control Settings Universal Remote Setup   |  |  |  |
|                      | Voice Control   |  |  |  |
|                      | Motion Control On   |  |  |  |
|                      |   |  |  |  |
|                      | 동안 집 것은 것 같은 것 같아. 것 같은 것 같은 것 같아. 것 같아. 것 것 같아.  |  |  |  |
|                      |   |  |  |  |
|                      | 주지 않는 데 말 이 집에 가지 않는 것 같은 데 있는 것 같아. 것 같아.  |  |  |  |
| ~                    | , 동생 이번 동안 이 이렇는 것을 알려야 한다. 이 가슴이 있는 것을 알려야 한다.<br>같은 것은 것은 것은 것을 같은 것을 알려야 한다. 것은 것은 것은 것을 알려야 한다. 것은 것을 알려야 한다. 것은 것을 같은 것을 알려야 한다. 것은 것을 알려야 한다. 것은 것을 알려야 한다. 한 |  |  |  |
| 2 Using Mot          | tion Control  |  |  |  |
|                      | vith your index finger extended. Move your hand slowly left and   |  |  |  |
|                      | opears on the screen.<br>o move the pointer on the screen. Fold down and then raise your  |  |  |  |
| index finger to sel  | lect items.   |  |  |  |
|                      | ¢ = < p = (   |  |  |  |
| <u> </u>             |   |  |  |  |
| + #-4                |   |  |  |  |
|                      |   |  |  |  |
|                      |   |  |  |  |
|                      |   |  |  |  |
|                      |   |  |  |  |

For more information, refer to "Controlling the TV using Motions (Motion Control)".

# Using the Samsung Smart Control

Pair the Samsung Smart Control to the TV the first time by pressing the Power button on the Samsung Smart Control. To pair again - if necessary - press the **RETURN** and **GUIDE** buttons simultaneously for 3 seconds.

| 1 Pairing wit           | h the IV               |                      | 사망가 안 있는 것은 가 있는 것<br>같이 다니는 것 같은 것 같이 다니는 것   |
|-------------------------|------------------------|----------------------|--|
| To pair again, press RE | TURN and GUIDE simul   | taneously for 3 seco | nds.   |
|                         |                        |                      |  |
| 2 Setting the           | e Samsung Smar         | t Control            |  |
| ~                       | Settings via MENU > Sy |                      | al Cattinga                                    |
| Set the Smart Control   |                        | stem > Smart Contro  | or Settings,                                   |
|                         | System                 |                      |  |
|                         | Accessibility          |                      | 14 - 14 2 - 24 1 5 2 2 3 4                     |
|                         | Setup                  |                      |  |
|                         | Menu Language          | English              | 11 - 2일 2월 |
|                         | Smart Control Settings |                      |  |
|                         | Universal Remote Setup |                      | 14 그 분님 - 관람 이라                                |
|                         | Voice Control          | 0-                   | 14 - 4 1 - 4 1 - 4 1 - 4 1 - 4                 |
|                         | Motion Control         | On                   |  |
|                         |                        |                      |  |
|                         |                        |                      |  |



For more information, refer to "Using the Samsung Smart Control".

# **Using Multi-Link Screen**



For more information, refer to "Using Multiple Functions on a Single Screen (Multi-Link Screen)".

# **Antenna Connection**

If you are not connecting your TV to a cable or satellite box, you must connect an antenna or a cable outlet to the TV to receive broadcast signals.

Connect a cable from an antenna or cable outlet to the ANT IN connector as shown in the diagram below.

An antenna connection is not necessary when a cable box or satellite receiver is used.



# **Video Device Connections**

Your TV has a variety of connectors for video input from external devices such as cable boxes, satellite receivers, 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
- Composite (A/V)

Connect a 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 picture quality.

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

# **HDMI** Connection

The following types of HDMI cables are recommended:

- High-Speed HDMI Cable
- High-Speed HDMI Cable with Ethernet
- Use an HDMI cable with a thickness of 0.55 inches (14mm) 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 with coaxial cables standardized by the IEEE.
- HCCP 2.2 is only supported on HDMI-MHL port, HDCP 2.2 can only use the HDMI(MHL) port, HDCP is short for 'High-bandwidth Digital Content Protection' and is for video copyright protection.

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

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



## **Component Connection**

Refer to the diagram and connect the Component cable to the One Connect's component input connectors and the device's component output connectors.

Make sure the cable colors match the connector colors.



# Composite (A/V) Connection

Refer to the diagram and connect the AV cable to the One Connect's AV input connectors and the device's AV output connectors.

If you are using the One Connect's AV1 input connectors, connect the device's audio output to the TV using a Y connector.



If you are using the One Connect's AV2 input connectors, use the included AV connection adapter to connect the device's audio and video output to the TV.



# **Audio Input and Output Connections**

Your TV has a variety of connections for audio input from devices such as Blu-ray players and DVD players and for audio output to such devices as amplifiers. The connections are listed below.

- HDMI/ARC (Audio Return Channel)
- Digital Audio (Optical)
- Audio (Analog)
- For better audio quality, it is a good idea to use an AV receiver.
- The number of connectors and their names and locations may vary depending on the model.
- Refer to the external device's operating manual when connecting it to the TV. The number of external device connectors and their names and locations may vary depending on the manufacturer.

# HDMI (ARC) Connection

ARC lets the TV output digital sound to an audio device and input digital sound from the same audio device through one HDMI cable. ARC is only available through the HDMI (ARC) port and only when the TV is connected to an ARC-enabled AV receiver.

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

Connect an HDMI cable to the TV's HDMI (ARC) connection and the device's HDMI output connection.



# **Digital Audio (Optical) Connection**

Connecting an AV receiver to the TV via a digital audio (optical) connector lets you listen to digital audio.

- Connecting a device using an optical cable does not automatically turn off the TV speakers. To turn off the TV's speakers, set TV Sound Output (Sound > Speaker Settings > TV Sound Output) to something other than TV Speaker.
- Adjust the audio device's volume using its remote control.
- An unusual noise coming from the audio device while you are using it may indicate a problem with the audio device itself. If this occurs, ask for assistance from the audio device's manufacturer.
- Digital audio is only available with 5.1-channel broadcasts.

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



## **Audio Output Connection**

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



# **Connecting to a Computer**

You can connect a computer directly to the TV using an HDMI or DVI to HDMI cable and use the TV as a monitor. You can also connect the TV to a computer via your home network and access media files saved on the computer on the TV screen. The kinds of connections you can make are listed below.

#### To use the TV as a Computer Monitor

• Connect through the HDMI Port using an HDMI cable.

You can connect the computer to the One Connect using an HDMI cable and display the computer screen on the TV.

• Connect though the HDMI (DVI) port using a DVI to HDMI cable.

You can connect a computer to the One Connect by connecting the computer's DVI port to the TV's HDMI (DVI) port with a DVI to HDMI cable and display the computer screen on the TV.

#### To Access Media Files on a Computer and View or Play Them on the TV

• Connect Through Samsung Link.

Quickly access photo, video, and music files saved on a computer on which Samsung Link software is installed, even if you do not connect the TV directly to the computer.

Connect Through DLNA Using Your Home Network.

Quickly access photo, video, and music files saved on a computer by connecting the TV and the computer to the same router or AP.

# **Connecting Through the HDMI Port**

For an HDMI connection, we recommend one of the following HDMI cable types:

- High-Speed HDMI Cable
- High-Speed HDMI Cable with Ethernet
- Use an HDMI cable with a thickness of 0.55 inches (14mm) 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.
- Many computer graphics adaptors do not have HDMI ports, but have DVI ports instead. If your computer graphics adaptor has a DVI port, use a DVI to HDMI cable to connect the computer to the TV. For more information, refer to "Connecting With a DVI to HDMI Cable".
- HCCP 2.2 is only supported on HDMI-MHL port, HDCP 2.2 can only use the HDMI(MHL) port, HDCP is short for 'High-bandwidth Digital Content Protection' and is for video copyright protection.

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

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



## Connecting With a DVI to HDMI Cable

If the graphics adapter of your computer does not support the HDMI interface, connect the computer to the TV with a DVI (Digital Visual Interactive) to HDMI cable. Note that the DVI to HDMI connection is only supported by the HDMI (DVI) port and does not support audio signal transmission. To listen to the computer sound, connect external speakers to the computer's audio output connector.

For the resolutions supported by the TV, refer to "Read Before Connecting a Computer (Supported Resolutions)".

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



# **Connecting Through Samsung Link**

Quickly access photo, video, and music files saved on a computer on which Samsung Link software is installed. In addition, using Samsung Link, you can view or play the content of a computer which is registered with Samsung Link through your Samsung account, even if the computer and the TV are not connected to the same router or AP.

- 1. On a computer, navigate to the Samsung content and service portal (http://link.samsung.com), and then sign into your Samsung account.
  - To install the Samsung Link desktop software, you need to sign into your Samsung account. If you don't have a Samsung account, create one first.
- 2. Install the Samsung Link desktop software. When the installation is complete, the computer will be registered with Samsung Link.
- 3. Specify a folder on the computer to connect to the TV. You can view or play the photo, video, and music files in the specified folder on the TV. For more information about playing or viewing multimedia content, refer to the "Playing Multimedia Content Saved on a Computer/Mobile Device" section.
  - For more information about using the Samsung Link desktop software, refer to the Help section of the Samsung Link software.

## **Connecting Through DLNA Using Your Home Network**

Quickly access and play photo, video, and music files stored on a computer on the TV.

- 1. Connect the TV and the computer to the same router or AP. Once you connect them to the same router or AP, a home network is configured.
  - DLNA is the technology that lets TV's, computers, and mobile devices connected to one wired or wireless router share content.
- On the computer, select [Control Panel] > [Network and Internet] > [Network and Sharing Center]
   > [Change advanced sharing settings], and then select [Choose media streaming options...] to activate media streaming.
- 3. From the list, set the TV to [Allowed].
- 4. Launch Windows Media Player on a computer. Select [Settings] > [Library Management], and then add the location where photo, video, and music files are saved to play them on the TV. For more information about playing content, refer to "Playing Multimedia Content Saved on a Computer/ Mobile Device" section.
  - Alternatively, you can move the files to the default folder specified by Windows Media Player, and then play or view them on the TV.
  - As long as File Sharing is activated, unauthorized access may occur. When you do not need to access data, disable File Sharing.

# **Connecting To a Mobile Device**

You can connect a mobile device such as a smartphone or tablet directly to the TV, or connect it to the network and display the mobile device's screen or play its content on the TV. The kinds of connections you can make are listed below.

#### • Connect Using an MHL to HDMI cable

Connect the USB port of the mobile device and the HDMI port of the One Connect with an MHL to HDMI cable to view the mobile device's screen on the TV screen.

#### • Connect by Mirroring the Mobile Device's Screen on the TV (Screen Mirroring)

Wirelessly connect the TV and the mobile device with the mirroring function. You can view the mobile device's screen on the TV screen.

This option is available only on a mobile device that supports the mirroring function.

#### Connect Mobile Devices without a Wireless Router (Wi-Fi Direct)

Wi-Fi Direct enables you to connect the TV and the mobile device without a router or AP. Quickly access and play photo, video, and music files in the connected mobile device on the TV.

This option is available only on a mobile device that supports the Wi-Fi Direct function.

#### • Connect Through Samsung Link

Samsung Link enables you to play photo, video, and music files saved on a Samsung Linkenabled mobile device easily, without the need for a connection to the TV.

#### Connect Through DLNA Using Your Home Network

You can conveniently play photo, video, and music files saved on a mobile device by connecting the mobile device and the TV to the same router or AP.

#### • Connect via Smart View 2.0

Install and run the Smart View 2.0 app on your mobile device, and connect your mobile device to the TV on the same network.

# Connecting With an MHL to HDMI Cable

MHL (Mobile High-definition Link) lets you display a mobile device's screen on 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. 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 settings 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.
- HCCP 2.2 is only supported on HDMI-MHL port. HDCP 2.2 can only use the HDMI(MHL) port. HDCP is short for 'High-bandwidth Digital Content Protection' and is for video copyright protection.

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



### **Screen Mirroring**

#### MENU > Network > Screen Mirroring

Wirelessly connect a mirroring-enabled mobile device to the TV and play the video and audio files stored on the device on the TV. Mirroring refers to the function that plays the video and audio files located on a mobile device on a TV and on the mobile device simultaneously.

- To use the Screen Mirroring function, the mobile device must support a mirroring function such as AllShare Cast or Screen Mirroring. To check whether your mobile device supports the mirroring function, please visit the mobile device manufacturer's website.
- The video or audio may intermittently stop depending on network conditions.

#### Connecting via a mobile device...

- 1. On the mobile device, run Screen Mirroring. The mobile device searches for available devices to connect to.
- 2. In the search result list, select the TV. The TV displays a pop-up at the top of the screen.
- 3. In the pop-up, select Allow to connect the mobile device.
  - All previously allowed mobile devices will automatically connect without needing approval.
  - If you select **Deny**, the device cannot connect. In addition, you are setting the device's connection status to Deny and it will not be able to connect in the future unless you change its connection status. To change the connection status of a denied device, Navigate to **Network > Screen Mirroring > Device Manager**, select the device, and then select **Allow**.

### Connecting by Automatically Allowing the Connection

- Navigate to Network > Screen Mirroring, and then select Screen Mirroring. The Screen Mirroring function starts. You can also start screen mirroring by pressing the SOURCE button on your remote, and then selecting Screen Mirroring from the list at the top of the screen.
- 2. Launch Screen Mirroring on your mobile device. The device searches for available devices.
- 3. Select the TV from the list. The TV automatically allows the connection and the device connects.
  - If the mobile device cannot connect, try turning the TV off and on.

#### Managing the Connection Status of Previously Connected Mobile Devices

- This function is only available if devices have previously connected to the TV or have previously attempted to connect and been denied.
- Navigate to Network > Screen Mirroring > Device Manager. The TV displays a list of devices that have previously connected to the TV or have tried to connect to the TV and been denied. The status of the connection (Allow/Deny) is also displayed.
- 2. Select a device. A pop-up appears.
- *3.* In the pop-up, you can select Allow connection, Deny connection, or Delete the device from the list.

# Connecting Mobile Devices without a Wireless Router (Wi-Fi Direct)

#### Navigate to MENU > Network > Wi-Fi Direct Try Now

You can connect a mobile device with the Wi-Fi Direct feature directly to the TV without using a wireless router or AP. By connecting a mobile device to the TV through **Wi-Fi Direct**, you can play photo, video, and music files saved on the mobile device on the TV.

- This option is available only on a mobile device that supports the Wi-Fi Direct function. Please check if your mobile device supports Wi-Fi Direct.
- 1. Enable Wi-Fi Direct on the mobile device, and then navigate to **Network** and select **Wi-Fi Direct** on the TV. 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.
- 3. Allow the connection. The TV and mobile device connect. For more information on the multimedia content, refer to the "Playing Multimedia Content Saved on a Computer/Mobile Device" section.

### **Connecting Through Samsung Link**

Samsung Link lets you play the photo, video, and music files saved on a Samsung Link-enabled mobile device. In addition, using Samsung Link, you can play the content of a mobile device, which is registered to Samsung Link through your Samsung account, even if the mobile device and the TV are not connected to the same router or AP.

- 1. Run the Samsung Link app on the mobile device, and then sign in to your Samsung account.
  - To use Samsung Link, you have to sign in to your Samsung account. If you don't have a Samsung account, create one first.
- Access and play photo, video, and music files saved on the mobile device. For more information about playing multimedia content, refer to the "Playing Multimedia Content Saved on a Computer/ Mobile Device" section.
  - For more information about using the Samsung Link mobile software, refer to the Help section of the software.

### **Connecting Through DLNA Using Your Home Network**

Quickly access and play photo, video, and music files stored on a mobile device on the TV.

- 1. Connect both the TV and the mobile device to the same router or AP. Once you connect them to a single router or AP, a home network is configured.
  - DLNA is the technology that lets TV's, computers, and mobile devices connected to one wired or wireless router share content.
- Enable File Sharing on the mobile device. You can play the content shared on the mobile device on the TV. For more information about playing multimedia content, refer to the "Playing Multimedia Content Saved on a Computer/Mobile Device" section.
  - As long as File Sharing is active, unauthorized access can occur. When you do not need to access data, disable File Sharing.

### **Connecting via Smart View 2.0**

By installing and running the Smart View 2.0 app on a mobile device, you can view the device's screen on the TV or play the device's multimedia content (videos, photos, and music) on the TV.

Go to Google Play, and search for and install Smart View 2.0 on your mobile device. Smart View 2.0 is a cross-platform, multi-screen app that enables you to display the mobile device's screen on the TV, share multimedia contents between two devices, and control the TV remotely. For more information, refer to the Smart View 2.0 manual.

### Specifying the Name of the TV on a Network

#### MENU > Network > Device Name (ry Now

Choose or specify a name for the TV that will appear on mobile devices and laptop computers.

- 1. Select **Device Name** from the **Network** menu, and then choose a name from the list that appears. Alternatively, select **User Input** to enter a name manually.
- 2. Check the name from a mobile device or laptop computer.

# **Switching Between Video Sources**

Press the **SOURCE** button to switch between external devices connected to the TV. For example, to switch to a game console connected to the second HDMI connector, press the **SOURCE** button. The **Source List** appears across the top of the screen. From the **Source List**, select HDMI2.

Interpretation of the product.

### Other Functions Available When You Display the Source List

A number of functions are available in the pop-up **Options** menu when the TV displays the Source List. The functions that appear in the **Options** menu vary, depending on the source you selected in the Source List and the external device connected to the source.

To view the **Options** menu, press the **TOOLS** button or press and hold the  $\square$  button on the standard remote. On the Samsung Smart Control, press and hold the touch pad or press the **KEYPAD** button, and then select **TOOLS** on the On-Screen Remote.

The functions that appear in the **Options** menu can include any of the following:

- Edit Name: Lets you assign a device name to an input source, for example, Blu-ray to HDMI1. To assign a device name to an input source, follow these steps:
- 1. Open the **Source List**. The list appears in a horizontal line across the top of the TV. Using your remote, highlight the source you want to assign a device name to.
- 2. Select Edit Name in the Options menu. The on-screen keyboard appears.
- 3. Using the keyboard, enter a new name. You can enter up to 15 characters.
- 4. When finished, select DONE on the keyboard, and then press the touch pad or the 🖼 button.
- Information: View information about the connected devices.
- Anynet+ (HDMI-CEC): Displays a list of Anynet+ (HDMI-CEC)-compliant devices that are connected to the TV.

This option is only available when Anynet+ (HDMI-CEC) is set to On.

- Remove USB: Use to safely remove a USB device connected to the TV. This option is only available when a USB device has been selected.
- Delete: Use to delete an external device from a source. When you delete an external device from a source, you erase the information the TV has stored about the device and you delete the association the device has with the source.

### **The Universal Remote Function**

When you display the Source List, the Universal Remote Setup button is displayed in the upper right corner of the screen. Select this button to start the Universal Remote function. The Universal Remote function lets you control cable boxes, Blu-ray players, home theaters, and other external devices using your TV remote control. Refer to the "Controlling External Devices with the TV Remote – Using the Universal Remote" section for more information on using the Universal Remote function.

# Installing Batteries into the Samsung Smart Control

To use the Samsung Smart Control, insert the batteries into the device referring to the figure below.



- 1. Gently pull on the notch in the battery cover. When the cover comes loose, remove the cover completely.
- 2. Insert 2 AA alkaline batteries, making sure to align the positive and negative polarities correctly.
- *3.* Place the battery cover on the remote control, and then press the top part of the cover into the remote control.
- 4. Press the catches on both sides of the battery cover in the order shown in the figure above until the cover is completely attached to the remote control.

### The Low Battery Alarm Window

If the Samsung Smart Control's batteries become low, the Low Battery Alarm appears on the screen. When the Alarm appears, replace the batteries. We recommend using alkaline batteries for longer operating life.



<Low battery Alarm Icon>

# Pairing the Samsung Smart Control

To use the Samsung Smart Control with the TV, you must first pair it to the TV via Bluetooth. To pair the Samsung Smart Control to the TV for the first time:

Turn on the TV by pointing the Samsung Smart Control at the remote control sensor of the TV, and then pressing the TV button. The TV and Samsung Smart Control pair automatically.

- The Samsung Smart Control can only connect to one TV at a time.
- Interview of the model of the model of the model.

### **Reconnecting the Samsung Smart Control**

If the Samsung Smart Control stops operating or works abnormally, try replacing the batteries. If the problem persists, pair the Samsung Smart Control and TV again.

- 1. Move to between 1 foot and 13 feet of the TV (30cm to 4m), and then aim the Samsung Smart Control at the TV's remote control sensor.
  - The closer you are to the TV the better.
- 2. Press the **RETURN** and **GUIDE** buttons simultaneously for 3 seconds.
- *3.* The Connection in Progress icon appears on the screen. A few moments later, the Connected icon appears. The Samsung Smart Control is paired to the TV.



# Using the Samsung Smart Control

The Samsung Smart Control makes it easier and more convenient to use the TV. Unlike conventional remote controls that feature buttons only, the Samsung Smart Control has a motion sensor (gyro sensor) that allows you to control the TV easily by holding and moving the Samsung Smart Control. If you press the **KEYPAD** button, an On-Screen Remote appears on the screen that allows you to enter numbers, control content, and use functions easily.

We recommend using the Samsung Smart Control at a distance of less than 20 feet (6m). The usable distance may vary depending on the wireless environmental conditions.

### **Button Functions**



- Your Samsung Smart Control may differ from the image above, depending on the model.
- Some buttons may differ depending on the country or model.

| Button     | Description  |  |
|------------|--|--|
| TV         | Turns the TV on and off.   |  |
| SEARCH     | Press this button to search for information through the search window available in various services.   |  |
| KEYPAD     | Displays the On-Screen Remote. With the On-Screen Remote on the screen, you can easily enter numbers, control content, and use functions. For more information, refer to the "Displaying and Using the On-Screen Remote" section.  |  |
| SOURCE     | Changes the source.  |  |
| VOL        | Changes the volume.  |  |
| VOICE      | <ul> <li>Starts voice recognition. When the microphone icon appears on the screen, speak a voice command into the microphone. Say "Help" to learn about basic usage and voice commands.</li> <li>Say a voice command 4 to 6 inches (10 to 15cm) from the microphone at an appropriate volume.</li> </ul> |  |
| 4          | Turns the sound off and on.  |  |
| СН         | Changes the channel.   |  |
| ▲, ▼, ◀, ▶ | Moves the pointer or focus.  |  |
| Touch pad  | Place a finger on the touch pad and move the Samsung Smart Control. The pointer on the screen moves in the same direction. Press the touch pad to select or run the focused item. For more information, refer to the "Using the Touch Pad and the Directional Buttons" section.                          |  |

| Button     | Description  |
|------------|--|
| ≪, ►, ॥, ₩ | Controls video, photo, or music file playback on the TV. You can also use these buttons to control the playback of content on an external device (for example, a Blu-ray player).  |
| A, B, C, D | Use these colored buttons to access additional options specific to the feature in use.<br>This buttons are not available in the U.S.A. and Canada.   |
| RETURN     | Returns to the previous menu. Additionally, when you press this button while watching TV, you can return to the previous channel.  |
| SMART HUB  | This launches the First Screen. From the First Screen, you can search through favorite apps, channels or sources and quickly access previously run or frequently used functions. Also, when you move to the Smart Hub, you can use services provided for each service panel. |
| GUIDE      | Displays the digital channel broadcasting schedule. For more information, refer to the "Digital Broadcast Information at a Glance" section.  |
| 3D         | Turns the 3D function on or off.   |
| MTS        | Press to choose stereo, mono, or Separate Audio Program (SAP broadcast).   |
| СС         | Displays captions. Controls the caption decoder.   |
| P.SIZE     | Lets you choose the picture size.  |
| MENU       | Displays the menu on the screen.   |
| •          | Enables/Disables Soccer Mode. For more information, refer to the "Making Sports Programs More Realistic with Soccer Mode" section.   |
| M.SCREEN   | Lets you split the TV screen and use multiple functions - such as watching TV, surfing the web, and playing a video - at the same time. For more information, refer to "Using Multiple Functions on a Single Screen (Multi-Link Screen)".                                    |
## **Additional Functions**

Press and hold the following buttons for 1 second to use additional functions.

| Button          | Description   |
|-----------------|---|
| Touch pad       | When you use the on screen keyboard, press and hold the touch pad instead of selecting the DONE button to finish entering characters and return to the previous screen. |
| RETURN (EXIT)   | Press and hold the RETURN button to exit all currently running applications   |
| GUIDE (CH.LIST) | Press and hold to launch the Channel List.  |
| -72             | Press and hold to turn on or turn off the Voice Guide, Video Description, Caption, High Contrast, and Enlarge functions.  |

## Operating the TV by Moving the Samsung Smart Control

The Samsung Smart Control has a motion sensor (gyro sensor) that lets you control the TV easily by moving the Samsung Smart Control and using it much like a cordless mouse.

Place a finger on the Samsung Smart Control's touch pad. A pointer appears on the screen. Move the Samsung Smart Control, and pointer moves on the screen in the direction you moved the Samsung Smart Control and the same distance. Highlight an item on the screen with the pointer, and then press the touch pad to select it.

You can also move the Smart Touch in the same fashion to scroll scrollable screens up and down.

- When you remove your finger from the touch pad, the pointer disappears.
- Navigate to System > Smart Control Settings, and select Motion Sensitivity to adjust the pointer speed.
- If Voice Guide is set to On, the Samsung Smart Control's motion sensor does not work. For the motion sensor in the Samsung Smart Control to work, you must set Voice Guide to Off.



## Using the Touch Pad and the Directional Buttons

The touch pad and directional buttons on the Samsung Smart Control let you select and launch items and move the cursor, focus, or panels on the screen.

In the TV's menu, navigate to Support > Smart Control Tutorial to view a tutorial that shows how to use the touch pad. Try Now

If the touch pad's sensitivity is too high or low, navigate to the System > Samsung Smart Control Settings menu, and then select the Touch Sensitivity option to change the touch pad sensitivity.

## Moving the Focus or Pointer



Press the directional buttons (up, down, left, and right) to move the focus, pointer, or cursor in the direction you want.

## Entering a Menu / Selecting an Item



To enter a menu or select an item, highlight the item or the menu title, or move the pointer over it, and then press the touch pad.

## Displaying a Context-sensitive Menu in Smart Hub



In Smart Hub, highlight an item, and then press and hold the touch pad. The context-sensitive menu for the item pops up.

Let The context-sensitive menu may vary depending on the item you selected.

## **Changing the Smart Hub Panel**



On the Smart Hub screen, drag left or right on the touch pad to display the previous or next panel.

Scrolling on the Web Browser



Drag up/down on the touch pad in the web browser to scroll the browser screen.

## **Displaying and Using the On-Screen Remote**

Press the **KEYPAD** button on the Samsung Smart Control to display the On-Screen Remote on the TV's screen. Use the On-Screen Remote to enter numbers, control content playback, and use the features and functions of the TV, just like a real remote.

Interstation of the Constraint of the terminal of terminal



| Button Description  |  |
|---|--|
| 1 2 3   |  |
| 4 5 6   | Lets you switch channels by entering channel numbers directly. Select Pre-CH to  |
| 7 8 9   | return to the previous channel.  |
| - O Pre-<br>CH  |  |
|   | Controls the playback of video, photo, or music files from all sources, and the playback of media content on external devices (for example, a Blu-ray player). |
|   | Use these colored buttons to access additional options specific to the feature in use.   |
| TOOLSPress to display the Tools menu while you are watching TV. The Tools menu<br>you easy access to frequently used functions. The functions listed are conte<br>sensitive and vary depending on how you are currently using the TV. |  |
| INFO  | Shows information about the current digital broadcast program or content.  |

| Button            | Description  |  |
|-------------------|--|--|
| MENU              | Displays the TV's menu on the screen.  |  |
| Speaker Settings  | Lets you select the speakers which will play the TV's audio. You must connect a home theater or amplifier with external speakers to the TV to use this function. |  |
| PIP               | Lets you display video from an external device or computer on the main screen and a TV broadcast in a picture-in-picture window.                                 |  |
| Multi-Link Screen | Lets you split the TV screen and use multiple functions - such as watching TV, surfing the web, and playing a video - at the same time.                          |  |
| 3D                | Turns the 3D function on or off.   |  |
| MTS               | Press to choose stereo, mono, or Separate Audio Program (SAP broadcast).   |  |
| СС                | Select to turn subtitles on or off.  |  |
| P.Size            | Changes the picture size.  |  |
| SLEEP             | This function automatically shuts off the TV after a preset period of time.<br>This button is only available in the U.S.A. and Canada.                           |  |
| P.Mode            | Lets you select the Picture Mode.<br>This button is only available in the U.S.A. and Canada.   |  |
| Web Browser       | Launches the Web Browser.  |  |
| e-Manual          | Opens the e-manual.  |  |
| Sign In           | Select to log in to or out of your Samsung account.  |  |
| Ś                 | <ul> <li>Move to the right / Move to the left: Moves the On-Screen Remote on the screen.</li> <li></li></ul>   |  |

Installing Smart View 2.0 a Near Field Communications (NFC) Device



Smart View 2.0 is a cross-platform multi-screen app that enables you to load the TV screen on an NFC compatible device, share multimedia contents between two devices, and control the TV remotely.

To install Smart View 2.0, follow these easy steps:

- 1. Activate NFC on the mobile device.
  - For more information, refer to the device's manual.
- 2. Put the mobile device near the NFC logo on the battery cover of the Samsung Smart Control.
  - Make sure that the mobile device's display stays active during the process. If the display turns off, NFC communications will be disconnected.
- 3. Smart View 2.0 automatically installs and then launches on the mobile device.
  - If your mobile device did not install Smart View 2.0, visit Google Play and install the app.

## **Important Information**

- NFC comes only with Android v4.12 Jellybean or later.
  - NFC is enabled only on Android 4.12 Jellybean or higher mobile devices. The NFC tag is also required. For more information, refer to the mobile device's manual.
  - To enable NFC on mobile devices using operating systems earlier than Android 4.12 Jellybean, download the Samsung NFC Connection app from Google Play and install it on the device. The NFC tag is also required.
- The connection may fail if the mobile device is not properly aligned with the NFC logo. If the "Empty tag" error appears on the mobile device, try again. Bring the mobile device close to the Samsung Smart Control and position it so that its NFC antenna faces the NFC logo on the Samsung Smart Control. Samsung Smart Control so that the NFC antenna faces the NFC logo.
- The NFC antenna's position depends on the device model. Locate the NFC antenna before proceeding.
- A thick cellular-phone case may interrupt the connection between the two devices.
- The Certification Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.

# Controlling External Devices with the TV Remote -Using the Universal Remote

## MENU > System > Universal Remote Setup (ry Now

The universal remote control feature 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. For each external device you want to control, you must run the universal remote set up process. The first step in the process is connecting the IR extender cable (included) to the TV and positioning the transmitter end of the cable in front of the device you want to control.

- You can also use the Anynet+ (HDMI-CEC) function to operate external Samsung devices with your TV's remote control without any additional setup. Refer to the "Using Anynet+ (HDMI-CEC)" section for more information.
- Certain external devices connected to the TV may not support the universal remote feature.

## **Connecting the IR Extender Cable**

If the color and design of the IR extender cable may vary depending on the model.

To begin the universal remote set up process, connect the IR extender cable (included) to the One Connect's IR output connector as shown in the diagram. Then, position the transmitter end within 4 inches (10 cm) of the external device's remote control sensor, pointing in the direction of the sensor.

There can be no obstacles between the transmitter end of the IR extender cable and the external device. Any obstacles will interfere with the transmission of the remote control signals.



## Setting Up the Universal Remote Control

- If you want to control a set-top-box, you need to have your zip code and your cable provider's name and location on hand before you begin. If you want to control a Blu-ray player or home theater, you need the manufacturer's name and the device's model number.
- 1. Turn on the external device you want to control with the universal remote function.

**Important:** If you want to control the external device without leaving the IR extender in front of the device, you must use the Samsung Smart Control to set up the Universal Remote function for the device. You must also use the Samsung Smart Control to control the device.

- 2. Press the SOURCE button on your remote to bring up the Source screen.
- 3. Select the 🖪 Universal Remote Setup icon.
  - You can also start Universal Remote Setup through the TV's menu, Navigate to System > Universal Remote Setup.
- 4. The TV checks if the IR Extender cable is connected. If it confirms the connection, press the touch pad. On a standard remote, press the 🖼 button.
- 5. Select the type of device you want to control set-top-box, Blu-ray player, or home theater.
- 6. Follow the directions on the screen to complete the set up and register the device. The directions will be different, depending on the device you want to control.
  - If the external device does not respond after being registered, register it again using its model number.
- 7. Once set up is complete and you have confirmed that you can use the TV remote to control the device, disconnect the IR extender cable from the TV and set it aside if you ran set up using the Samsung Smart Control. You can now control the device directly with the Samsung Smart Control.
  - If you are using the Standard remote, you must leave the IR extender in place so that it faces the external device to be able to control the device.

## Controlling an External Device with the TV Remote

During the universal remote set up process, the TV registers the connector (source) the external device is connected to. To control a registered external device with your TV's remote, select the external device on the Source List.

- 1. Press the SOURCE button on your remote.
- Select the source (connector) the device is connected to (HDMI1, HDMI2, etc.) If the external device is a Blu-ray player, home theater, or similar kind of device, the external device's home screen or menu appears on the TV screen. If the external device is a set-top-box, a channel appears on the screen.
- If you are using the Samsung Smart Control, aim the Smart Control at the device to control it. If you are using the Standard remote, aim the remote at the IR sensor on the TV to control the device.

## **Universal Remote Features**

- 1. Press SOURCE to display the Source list.
- 2. Select Remote Setup from the top of the screen. This initiates the universal remote setup process.
- 3. Select an external registered device on the Universal Remote Setup screen. The following options are available:
  - Use External Speakers

Listen to the audio from an external device through the connected home theater.

- This is available only if you have selected a set-top-box or Blu-ray player in Step 3 and you have a home theater connected to the TV.
- Link Set-top Box

Listen to the audio from a set-top box through the home theater that is connected to the TV.

This is available only if you have selected a set-top-box in Step 3 and you have a home theater connected to the TV.

#### • Link Blu-ray Player

Listen to the audio from a Blu-ray player through the home theater that is connected to the TV.

This is available only if you have selected a Blu-ray player in Step 3 and you have a home theater connected to the TV.

#### Source Setup

Change the TV's input source of your selected external device.

• Synced TV power

#### When set to On, the connected set-top-box turns off when you turn the TV off.

- This is available only if you have selected a set-top-box in Step 3. You can only sync TV power to a set-top-box.
- Rename

Rename the registered external device. The name can be up to 15 characters long.

• Delete

Remove the external device from the list of registered devices. The device is de-registered and you will no longer be able to control it with the Universal Remote function.

# Controlling the TV with a Keyboard

#### MENU > System > Device Manager > Keyboard Settings (Try Now

Connecting a keyboard makes it easy to control most of the functions on the TV.

Certain models do not support USB HID class keyboards.

## **Connecting a Keyboard**

## **Connecting a USB Keyboard**

Plug the keyboard cable into the One Connect's USB port. A connection message appears on the screen.

## Connecting a Bluetooth Keyboard (ry Now

1. Place the Bluetooth keyboard into standby status.

Refer to the keyboard manual for information about putting the keyboard into standby status.

- Select System > Device Manager > Keyboard Settings > Add Bluetooth Keyboard. The Add Bluetooth Keyboard screen appears and the TV automatically scans for available keyboards.
  - If your keyboard was not detected, position the keyboard close to the TV, and then select Refresh. The TV scans for available keyboards again.
- 3. Select the Bluetooth keyboard from the scan list, and then select **Pair and connect**. A number appears on the screen.
- 4. Enter the number using the Bluetooth keyboard. This pairs the Bluetooth keyboard to the TV.
  - Select **Yes** to change the keyboard's options or **No** to leave them as they are. Refer to the "Input Languages, Keyboard Type, and Switch Language Key" section for more information.

## Using the Keyboard

Use the following remote features with the USB or Bluetooth keyboard connected to the TV.

- Arrow Keys (moving the focus), Windows Key (MENU Button), Menu List Key (TOOLS Button), Enter Key (Select/run item), ESC (RETURN Button), Number Keys (Number Buttons)
- F1 (▲), F2 (Ⅰ), F3 (☉), F4 (□), F5 (♥), F6 (SOURCE Button), F7 (CH List), F8 (𝖾 Button), F9/F10 (Volume Buttons), F11 / F12 (Channel Buttons)
- Page Up/Page Down: Scroll web browser pages up/down.

## Changing Keyboards (Try Now

Select System > Device Manager > Keyboard Settings > Select Keyboard. Designate which keyboard to use.

Only one keyboard can be used at a time.

## Input Languages, Keyboard Type, and Switch Language Key

Select System > Device Manager > Keyboard Settings > Keyboard Options. The following options are available: Try Now

• Keyboard Language

If the keyboard supports multiple languages, choose the language you want to use from the displayed list.

• Keyboard Type

Match the Keyboard Type to the language selected in Keyboard Language.

The Keyboard Type list varies depending on which language was selected under Keyboard Language.

Switch Input Language

If the keyboard supports multiple languages, choose the key you want to use to switch between languages.

# Controlling the TV with a Mouse

#### MENU > System > Device Manager > Mouse Settings (ry Now

Connecting a mouse makes it easy to control most of the functions on the TV.

Certain models do not support USB HID class mice.

## **Connecting a Mouse**

## **Connecting a USB Mouse**

Plug the mouse cable into the One Connect's USB port. A connection message appears on the screen.

## Connecting a Bluetooth Mouse Try Now

1. Place the Bluetooth mouse in standby status.

Refer to the mouse manual for information about putting the mouse into standby status.

- Select System > Device Manager > Mouse Settings > Add Bluetooth Mouse. The Add Bluetooth Mouse screen appears and the TV automatically scans for available mice.
- *3.* Select the Bluetooth mouse from the scanned list, and then select **Pair and connect**. This pairs the Bluetooth mouse to the TV.

## Using the Mouse

Once a USB or Bluetooth mouse is connected to the TV, a pointer appears on the TV's screen. You can use this pointer to control the TV in the same way you use a pointer on a computer.

• Selecting and Running an Item

Left-click using the mouse.

• Showing Tools Buttons

Right-clicking displays the Tools buttons on the screen so that you can easily use the TV's functions.

The Tools buttons may vary depending on the function your are using.

• Scrolling the TV Menu or Screen

Move the mouse wheel up or down. This scrolls the TV menu or screen up/down.

• Exiting the TV Menu or Feature

Click the X button. This closes the menu.

The X button appears on the TV menu when a mouse is being used. Left-clicking once while using a feature displays the X button on the current screen.

## Changing Mice Try Now

Select System > Device Manager > Mouse Settings > Select Mouse. Designate which mouse to use.

Only one mouse can be used at a time.

## Changing Mouse Buttons and Pointer Speed (Try Now

Select System > Device Manager > Mouse Settings > Mouse Options. The following options are available:

• Primary Button

Choose which button (left or right) to use to select and run items.

• Pointer Speed

Adjust the movement speed of the pointer that appears on the screen.

# **Entering Text Using QWERTY**

A QWERTY 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.

## **Using Additional Functions**

Select **O** on the OWERTY keyboard screen. The following options are available:

Recommended text

Enable/disable the Recommended Text feature Enabling the **Recommended text** feature allows you to quickly enter text starting with the characters you typed in by displaying recommended words. 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. The word is memorized so that you can enter the same text again more easily.

#### Reset recommended text data

Delete both the recommended words and the memorized words to clear the list.

• Predict Next Letter

Enable/disable the Text Prediction feature. Enabling the Text Prediction feature eliminates the need to find and select individual character keys. 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".

This feature is limited to words that have previously been added to the dictionary.

# **Establishing a Wired Internet Connection**

Connecting the TV to the Internet gives you access to online services and SMART features, and lets you update the TV's software quickly and easily through the Internet.

## Using Cat 7 LAN Cables

We recommend using Cat 7 LAN cables to link your TV to the Internet Access Points.

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

There are three ways to connect the TV to your Internet Access Points. Using Cat 7 cables, connect the TV to the Access Points as shown in one of the following illustrations.

External Modem



• ① IP Router + ② External Modem



• Wall-mounted LAN Outlet



## **Connecting to a Wired Internet Network Automatically**

## MENU > Network > Network Settings (Try Now

Automatically connect to an available network.

- 1. Set the Network type to Wired, and then select Connect.
- 2. The TV attempts to connect to an available network. Once it is successful, you will see a confirmation message. Select **OK**. If the attempt fails, try again, or connect manually.

## **Connecting to a Wired Internet Network Manually**

#### MENU > Network > Network Settings

With networks that require a static IP address, you will need to enter the IP address, subnet mask, gateway, and DNS values manually to connect to the network. To get these values, contact your Internet Service Provider (ISP).

- Refer to the "Dynamic versus Static IP Addresses" section for more information on dynamic IP and static IP addresses.
- 1. Set the Network type to Wired, and then select Connect.



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

| Network Setting<br>Connection verification |                        |       |       |
|--|------------------------|-------|-------|
|  | <b></b> ו              |       |       |
| Wired network co                           | onnection test is stop | pped. |       |
| Change Network                             | Settings               | Retry | Close |

3. In the IP Settings screen, set IP Setting to Enter Manually.

| 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        |  |
| ОК          | Cancel         |  |

- 4. Select IP Address. When the IP Address entry window appears, enter three digits into each field on the IP Address line. If the value has less than three digits, add leading zeroes. For example, to enter 10, enter 010. After three digits have been entered in a field, the highlight automatically jumps to the next field.
  - On a standard remote, enter numbers by pressing the number buttons. On the Samsung Smart Control, press the KEYPAD button. The On-Screen Remote appears. Use the On-Screen Remote to enter numbers. After you have filled in all four fields, press the touch pad on the Samsung Smart Control or the G button on the standard remote again.
- 5. Repeat the process for Subnet Mask, Gateway, and DNS Server.
- 6. When done, select OK.
- 7. The TV attempts to connect to the network again using the settings you entered. Once it has established the connection, it displays a confirmation message. Select OK.
  - Interpretation The network connection speed may differ depending on the DNS server settings.
  - 🖉 For details on the DNS server settings, contact your Internet service provider (ISP).

# **Establishing a Wireless Internet Connection**

Connecting the TV to the Internet gives you access to online services and SMART features, and lets you update the TV's software quickly and easily through the Internet.



## **Connecting to a Wireless Internet Network Automatically**

#### MENU > Network > Network Settings

Connect the TV to the Internet via a wireless router. Make sure you have the wireless router's SSID (name) and password settings before attempting to connect. The password can be found on the wireless router's configuration screen.

- 1. On the **Network Settings** screen, set **Network type** to **Wireless**. The TV automatically displays a list of available wireless networks.
- 2. Select a network. If the network you want doesn't appear in the list, select Add Network, and enter the network's SSID (name) manually.
- *3.* Using the on-screen keyboard that appears, enter the password. When finished, select **Done**. If the selected network is not security-enabled, the TV will by-pass the on-screen keyboard and attempt to connect right away.
  - To select a character on the on-screen keyboard, highlight the character and then select it.
     Select Caps to view capital letters. Select the 123#& key to view additional characters.
  - To view the password as you enter it, select Show Password.
- 4. The TV attempts to connect to the network. Once a connection is established, the TV displays a confirmation message. Select **OK**. If the attempt fails, try again or connect manually

## **Connecting to a Wireless Internet Network Manually**

#### MENU > Network > Network Settings

With networks that require a static IP address, you will need to enter the IP address, subnet mask, gateway, and DNS values manually to connect to the network. 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" section for more information on dynamic IP and static IP addresses.
- 1. On the Network Settings screen, set **Network type** to **Wireless**. The TV automatically displays a list of available wireless networks.

| Network Settings<br>Select your network type. |          |   |
|---|----------|---|
| Network type                                  | Wireless | ((     ))   |
| Wireless network                              |          |   |
| AP0000  |          | You can connect your TV to                            |
| AP0001  |          | the internet. Please select which wireless network to |
| Add Network                                   |          | use.  |
| Refresh WPS (PBC)                             |          |   |

- 2. Select a network. If the network you want doesn't appear in the list, select Add Network, and enter the network's SSID (name) manually.
- *3.* Using the on-screen keyboard that appears, enter the password. When finished, select **Done**. If the selected network is not security-enabled, the TV will by-pass the on-screen keyboard and attempt to connect right away.
  - To select a character on the on-screen keyboard, highlight the character and then select it.
     Select Caps to view capital letters. Select the 123#& key to view additional characters.
  - To view the security password as you enter it, select Show Password.
- Select Stop when the TV attempts to connect to the network. Once the network connection has been interrupted, select IP Settings.

| Network Settings                             |       |
|--|-------|
| Connection verification cancelled.           |       |
| <b>a</b> bc1234                              |       |
| Wireless network connection test is stopped. |       |
|  |       |
| Change Network IP Settings Retry             | Close |

5. In the IP Settings screen, set IP Setting to Enter Manually.

| IP Settings                          |                               |  |
|--------------------------------------|-------------------------------|--|
| IP Setting                           | Enter Manually                |  |
| IP Address<br>Subnet Mask<br>Gateway | 0.0.0.0<br>0.0.0.0<br>0.0.0.0 |  |
| DNS Setting<br>DNS Server            | Enter Manually<br>0.0.0.0     |  |
| ОК                                   | Cancel                        |  |

- 6. Select IP Address. When the IP Address entry window appears, enter three digits into each field on the IP Address line. If the value has less than three digits, add leading zeroes. For example, to enter 10, enter 010. After three digits have been entered in a field, the highlight automatically jumps to the next field.
  - On a standard remote, enter numbers by pressing the number buttons. On the Samsung Smart Control, press the KEYPAD button. The On-Screen Remote appears. Use the On-Screen Remote to enter numbers. After you have filled in all four fields, press the touch pad on the Samsung Smart Control or the G button on the standard remote again.
- 7. Repeat the process for Subnet Mask, Gateway, and DNS Server.
- 8. When done, select OK.
- *9.* The TV attempts to connect to the network again using the entered settings. Once it has established the connection, it displays a confirmation message. Select OK.
  - Network connection speeds may differ depending on the DNS server settings.
  - 🖉 For details on the correct DNS server settings, contact your Internet service provider (ISP).

## Connecting to a Wireless Internet Network with WPS

#### MENU > Network > Network Settings

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.

- Your router must support WPS to use the WPS functionality.
- On the Network Settings screen, set Network type to Wireless. The TV automatically displays a list of available wireless networks.
- 2. Select WPS (PBC), and then press the router's WPS or PBC button within two minutes.
- The TV automatically acquires the SSID and password settings, and then connects to the network. Once a connection is established, the TV displays a connection message. Select OK.

# **Troubleshooting Internet Connectivity Issues**

If you are not able to connect the TV to the Internet, read the information below.

## **Troubleshooting Wired Internet Connectivity Issues**

### 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 (ry Now

Do the following or configure the IP Settings manually.

- 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

Do the following:

- 1. Check all IP Settings.
- 2. Ensure that the DHCP server is enabled on the router. Then, unplug the router and plug it 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 values in IP Settings.
- 3. If the problem persists, contact your Internet Service Provider.

## Network setup is complete, but unable to connect to the Internet (ry Now

If the problem persists, contact your Internet Service Provider.

## **Troubleshooting Wireless Internet Connectivity Issues**

#### Wireless network connection failed, Try Now Try Now

Selected wireless router not found. Go to Network Settings and select the correct router.

#### Unable to connect to a wireless router (ry Now (ry Now

Check the following:

- 1. Check if the router is turned on. If it is, turn it off and on again.
- 2. Enter the correct password if required.

#### IP auto setting failed (ry Now

Do the following or configure the IP Settings manually.

- 1. Make sure that the DHCP server is enabled on the router. Then, unplug the router and plug it back in.
- 2. Enter the correct password if required.
- 3. If this does not work, contact your Internet Service Provider for more information.

#### Unable to connect to the network (Try Now

Do the following:

- 1. Check all IP Settings.
- 2. Enter the correct password 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 values in IP Settings.
- 3. If the problem persists, contact your Internet Service Provider.

Network setup is complete, but unable to connect to the Internet (ry Now

If the problem persists, contact your Internet Service Provider.

## **Checking the Internet Connection Status**

#### MENU > Network > Network Status (ry Now)

| Network           |                  |
|-------------------|------------------|
| Network Status    |                  |
| Network Settings  |                  |
| Wi-Fi Direct      |                  |
| AllShare Settings |                  |
| Device Name       | [TV]Samsung L··· |
|                   |                  |
|                   |                  |
|                   |                  |

Vour TV's menu may differ from the image above, depending on the model.

View the current network and Internet status.

# Using Multiple Functions on a Single Screen (Multi-Link Screen)

#### MENU > Picture > Open Multi-Link Screen (ry Now

Multi-Link Screen allows you to search the Web, use apps, and much more simultaneously while watching TV.

- Before using Multi-Link Screen, make sure the TV is connected to the Internet. Using Multi-Link Screen requires an Internet connection.
- (In the U.S.A and Canada) Before using Smart Hub with Multi-Link Screen, go to On TV Settings (Smart Hub > On TV Settings > On TV Setup) and finish configuring Smart Hub if you haven't done so already.
- (For other countries) If you launch Multi-Link Screen, but have not yet configured Smart Hub, a pop-up window appears. In the pop-up window, select Set Up Smart Hub. You must configure Smart Hub before you can use Multi-Link Screen.

## Launching Multi-Link Screen

Press M.SCREEN on the Samsung Smart Control to launch Multi-Link Screen.

## **Using Multi-Link Screen**

- UHD and FHD contents and channels cannot be viewed simultaneously.
- Launching Smart Hub while using Multi-Link Screen automatically terminates Multi-Link Screen.
- Certain TV features and apps may not be supported by Multi-Link Screen. If this is the case, exit from Multi-Link Screen and then use the feature.

## **Selecting a Feature**

- Press the Samsung Smart Control's M.SCREEN button while Multi-Link Screen is running. The Options menu appears.
- 2. Select a feature from the Options menu. This initializes the selected feature.
  - Features supported by Multi-Link Screen vary depending on your country.

#### Changing the Channel/Volume

- 1. Place the pointer or focus over the screen on which you want to change the channel or adjust the volume.
- 2. Use the channel buttons to change the channel or the volume buttons to adjust the volume.

## Pairing Bluetooth Headphones

# Pairing Bluetooth headphones to the TV lets you to hear the audio from a different screen through the headphones.

- Compatibility issues may occur with Mobile headphones, which may not work.
- Sync issues may occur, depending on the video and audio and on the devices used.
- The headphones and the TV may disconnect, depending on the distance between them.
- You can't use Bluetooth headphones and SoundShare Settings (Sound > Speaker Settings > SoundShare Settings) features simultaneously.
- 1. Put the Bluetooth headphones in the pairing-ready status.

 ${f \mathbb{Z}}$  Refer to the headphones' manual for instructions on enabling the pairing-ready status.

- Press the Samsung Smart Control's M.SCREEN button while Multi-Link Screen is running. The Options menu appears.
- 3. Select Settings from the Options menu.
- 4. Select **Connect Bluetooth Headphones** from the **Settings** menu. The TV displays the Bluetoothpairing window, and then automatically scans for available headphones.
  - If the scan fails to locate your headphones, try placing the headphones closer to the TV, and then select **Refresh**.
- 5. Select your headphones from the list of scanned headphones, and then select **Pairing & Connection** to pair the headphones and the TV.

## Selecting the Audio-Source Screen

You can listen to audio from one screen through the speakers and audio from a different screen through the Bluetooth headphones.

- 1. Press the Samsung Smart Control's M.SCREEN button while Multi-Link Screen is running. The Options menu appears.
- 2. Select Settings from the Options.
- 3. Select Speaker Settings from the Settings menu.
- 4. Select a screen for TV Speaker and another for Bluetooth Headphone.
  - The same screen cannot be selected for both TV Speaker and Bluetooth Headphone.
  - Auto is only supported by the TV speaker. Bluetooth headphones are not supported.

# **Smart Hub**

#### MENU > Smart Hub > Open Smart Hub

With Smart Hub, you can surf the web, download apps, 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.

- Some of the Smart Hub services are for pay services. To use a for pay service, you must have an account with the service provider or a Samsung Apps TV account. Refer to the "Using Smart Hub with a Samsung Account" section for more information.
- The TV must be connected to the Internet to access Smart Hub.
- Some Smart Hub features may not be available depending on the service provider, language, or region.
- To use Smart Hub, you must agree to the end user agreement and privacy policy. Otherwise, you will not be able to access the features and services associated with them. You can view the entire text of the Terms & Policy by navigating to Smart Hub > Terms & Policy. If you want to stop using Smart Hub, you can cancel the agreement. (Try Now)

## **Testing Smart Hub connections**

#### MENU > Support > Self Diagnosis > Smart Hub Connection Test

If Smart Hub is not functioning, navigate to Support > Self Diagnosis > Smart Hub Connection Test. Diagnose the problem by checking the internet connection, your ISP, the Samsung server and the Samsung Apps panels.

After completing the test, if Smart Hub continues to have problems, contact your Internet Service Provider or a Samsung Contact Centre.

## **Opening the First Screen Settings**

Press the 🕫 button while watching TV to open the First Screen Settings.

On the **First Screen Settings**, search through favorite apps, channels or sources and access previously run or frequently used functions.

You can configure the TV to automatically open the First Screen Settings when it turns on. Navigate to Smart Hub > First Screen Settings, and set Auto Start to On.

## Setting your favorite item

- 1. Press the 😝 button to open the First Screen Settings, and move to a desired item.
- 2. Tap and hold the touchpad. The Options menu appears.
- 3. In the Options menu, select Add to Favorites to add the selected item to the favorite list, which will move top of the list.
  - To delete a favorite item, select it and tap and hold the touchpad to display the context menu. Then, select **Remove from Favorites**.

## **Deleting browsing history**

- 1. Press the 😝 button to open the First Screen Settings, and select Delete All. You will be asked to confirm your selection.
- 2. Select Yes on the screen. Your browsing history is deleted completely.
  - Mowever, the Favorites list items will not be deleted.
  - You can also delete your browsing history by selecting **Delete All** in the **Smart Hub** > **First Screen Settings** menu.

## Moving to the Panel Screen

Press the 🕫 button to open the First Screen Settings, and select the Panel icon. On the Panel screen for each service panel, the following are available:

• 🙉 Games

This function is only available in the U.S.A. and Canada.

Navigate to Smart Hub > Games to confirm the optimizing game apps for Smart TV and detailed information on Smart hub. This makes it easier to download and play games. In addition, you can manage games that you have downloaded or purchased with your Samsung account.

#### • **SAMSUNG APPS**

You can enjoy variety of free and for pay news, sports, weather, and gaming apps on the TV as you would on a smart phone or tablet.

• 🕲 On TV

This function is only available in the U.S.A. and Canada.

You can view the current programs on TV at a glance and view Program Recommendations by Channel or by Time for programs that will be broadcast later. In addition, you can watch recorded videos.

#### • Discrete Section Provide A section 1 and 1 and

This function is only available in the U.S.A. and Canada.

You can buy or rent movies and TV shows online and stream them to your TV using apps downloaded via Smart Hub.

#### Ø MULTIMEDIA

You can play back photo, video, and music files from an external storage device or watch recorded videos.

• 🗐 NewsON

This function is not available in the U.S.A. and Canada.

**NewsON** provides real-world news and weather information all in on place - no need for a newspaper, smartphone, or computer.

• 🔞 SOCCER

This function is not available in the U.S.A. and Canada.

The **SOCCER** panel offers a variety of information about world soccer matches, featuring videos, news, matchups, and ratings.

## Using the Smart Hub Tutorial

#### MENU > Support > Smart Hub Tutorial

Select Support > Smart Hub Tutorial. This will familiarize yourself with the basics of Smart Hub and panels.

# Using Smart Hub with a Samsung Account



Your TV's menu may differ from the image above, depending on the model.

## **Creating a Samsung Account**

#### MENU > Smart Hub > Samsung Account

Some of the Smart Hub services are for pay services. To use a for pay service, you must have an account with the service provider or a Samsung Apps TV account (a Samsung account).

You can create a Samsung account using your email address as your ID.

- To create a Samsung account, you must be over 14 years old.
- To create a Samsung account, you must agree to the Samsung account end user agreement and privacy policy. Otherwise, you cannot create a Samsung account. You can view the entire content of the agreement by navigating to Smart Hub > Samsung Account > Terms and Conditions, Privacy Policy.
- You can also create a Samsung account at http://content.samsung.com. Once you have an account, you can use the same ID on both the TV and the Samsung website.

## Creating a Samsung Account Using the Create Samsung Account Menu

- Press the MENU button on your remote, and then select Smart Hub > Samsung Account > Create Account > Create Samsung Account. The Terms and Conditions screen appears.
- 2. On the Samsung Smart Control, press the touch pad to agree to the Terms and Conditions, and then press the touch pad again. On a standard remote, press the 🖃 button to agree, and then press 🕞 again.
  - If you want to reveiw the Terms and Conditions, select the View Details buttons.
- 3. Select the Email field. The keyboard pop-up appears. Enter your e-mail address. On the Samsung Smart Control use the directional buttons to move from character to character, or use the Motion Sensor pointer. Press the touch pad to select a character. Select the Caps button on the left to enter capital letters. Select the 123#& button to view and select additional symbols. Select .com at the bottom of the keyboard to enter the .com button. On a standard remote, use the directional keys to move from character to character and press the Image button to select a character.
- 4. When finished, select **Done** on the keyboard. The **Create Account** screen reappears.
- 5. Enter a password, your first name, and last name in the same fashion.
  - If you want your account to be password protected, select "Password (Security: High)" in the field below the Password field. If you don't, select "No password required". You still need to create a password, however. Other functions in your account require that you enter a password.
  - Leave "Sign me in automatically" checked if you want the TV to log you in to your account automatically when you turn the TV on.
- 6. Select the Date of Birth field, and then select numbers pressing the up or down directional buttons, or, on a standard remote, using the number pad. Move from month to day to year by pressing the left or right directional buttons. Press the **RETURN** button on the remote when done.
- 7. After you have finished with all the fields, select Next. The Image Selection screen appears.
- 8. Select an image to use to identify your account. The Account Created screen appears. Press the touch pad or press the 🕞 button. You are signed in to your Samsung account.
  - If you have an existing account saved on the TV, you must be logged out of the account to create new accounts on the TV.

## Creating a Samsung Account using a Facebook Account

If you have a Facebook account, you can use the account to create a Samsung account.

- Press the MENU button on your remote, select Smart Hub > Samsung Account. And then select Log In. The Sign In screen appears.
- 2. Select ⊕, and then select Create with Facebook on the Sign In screen.
- 3. Enter your Facebook ID and password and select Sign In.
- 4. The Terms and Conditions screen appears.
- 5. On the Samsung Smart Control press the touch pad to agree to the Terms and Conditions, and then press the touch pad again. On a standard remote, press the 🖼 button to agree, and then press the 🖼 button again.
- 6. Follow the directions on the Create Account screen to create a Samsung account.
- 7. Once a Samsung account is created, you are automatically signed in.
  - If you create a Samsung account using your Facebook account, they are automatically linked.

## Signing in to a Samsung Account

#### MENU > Smart Hub > Samsung Account > Log In

- 1. Press the MENU button on your remote, and then select Smart Hub > Samsung Account > Log In.
- 2. On the Log In screen, select your account. And then select Sign In on the Sign In screen.
- *3.* If you don't need to enter a password, login proceeds. If you need to enter a password, the on-screen keyboard appears. Enter your password. When finished, select **Done**.

## Linking Your Samsung Account to External Service Accounts

#### MENU > Smart Hub > Samsung Account > Link Service Accounts

Linking your Samsung account to an external service accounts lets you automatically log in to the linked account when you log into your Samsung account. For example, you can download the Facebook application – which lets you access Facebook from your TV – and then link your Facebook account to your Samsung account. Logging into your Samsung account then automatically logs you into your Facebook account as well and lets you access it directly from the TV.

To use Link Service Accounts, you must first log into your Samsung account.

### Linking a Service Account

- 1. Log in to your Samsung Account.
- Navigate to Smart Hub > Samsung Account, and then select Link Service Accounts. The accounts you can link to your Samsung account are displayed.
- 3. Select an account from the list. The Link to other accounts window appears on the screen.
- 4. Enter the current ID and password of the account to log in and select OK.
- 5. When the login is complete, the account is linked to the Samsung account.

## **Disconnecting a Linked Account**

- Navigate to Smart Hub > Samsung Account, select Link Service Accounts. Select an account to unlink.
- 2. A confirmation dialog box appears. Select Yes to unlink the account.

## Changing and Adding Information to a Samsung Account

#### MENU > Smart Hub > Samsung Account

Using the Samsung Account menu, you can manage your Samsung account.

- 🖉 To change the account information, you must be logged in to your Samsung account.
- 1. Navigate to Smart Hub > Samsung Account, and then select Edit Profile. The keyboard appears.
- 2. Enter your password, and then selec **Done**. The Edit Profile screen appears.

The Edit Profile screen lets you do the following:

• Change Your Profile Image

Select Edit Profile Picture to change your profile image.

#### Register Your Face to your Samsung Account

Select **Register Face** to register your face to your Samsung account. The registered face is used by the **Face recognition** Sign-in method.

Choose a Samsung Account Sign-in Method

Select Sign-in Method and choose a sign-in method from the drop down that appears.

• Turn Auto Login On or Off

Select Sign me in automatically. Auto Login automatically logs you in to your Samsung account when you turn the TV on. A check mark indicates that Auto Login is on.

• Enter Basic User Information

You can enter your first name, last name, and date of birth.

Add a Credit Card to Your Samsung Account

Select Add Card to add a credit card to your Samsung Account. Adding a credit card to your account makes it easier to purchase online movies and TV shows. Follow the easy directions on the screen.

• Subscribe to the Samsung e-Newsletter

You can receive emails containing information about Samsung products, new service announcements, special offers, and events.

## **Deleting a Samsung Account from the TV**

#### MENU > Smart Hub > Samsung Account > Remove Accounts from TV

Navigate to Smart Hub > Samsung Account and select Remove Accounts from TV. The account and password information for the currently signed in account is deleted from the TV. The account information for any external accounts linked to the signed in account is also deleted from the TV.

Only the information for the current signed in account is deleted. Account information for all other accounts saved on the TV remain.

# Using the Games Panel

This function is only available in the U.S.A. and Canada.



✓ Usability depends on your specific model and local region.

Navigate to Smart Hub > Games to confirm the optimizing game apps for Smart TV and detailed information on Smart hub. This makes it easier to download and play games. In addition, you can manage games that you have downloaded or purchased with your Samsung account.

- The TV must be connected to the Internet for you to use the Games Panel.
- Z To purchase or remove games on the Games panel, you must be logged in to your Samsung Account.

## Using Supported Features via the Pop-Up Menu

On the My Page or All Games panel, move the focus to a desired game, and then press and hold the touch pad. On a standard remote, press and hold the 🕞 button. A drop down list appears with the following functions.

Download/Remove

Downloads games to the TV or removes games from the TV.

• View detail

Displays detailed information for the selected game.
## Installing and Running a Game

#### **Quickly Installing Games**

- 1. On the **Games** panel, select **All Games** and select a game from the list, then press and hold the touch pad or the I button. The Options drop down list appears.
  - On the All Games screen, select the 🖻 button. The screen will display only games that are compatible with the controller you chose.
  - On the All Games screen, select the 🖻 button, and then select a sorting criteria. The games are sorted according to the criteria.
- 2. In the pop-up list, select Download. If you are on the Information screen, select Download.
- *3.* If the game is free, the game you selected is installed on the TV. If the game is not free, follow the directions on the screen to pay for and download the game.
- You can stop a game download by selecting the Cancel button.
- When the TV's internal memory is insufficient, you can install a game on a USB device.
- You can play a game installed on a USB device only when the USB device is connected to the TV.
   If the USB device is disconnected during game playing, the game is terminated.
- You can play the game installed on the USB device on a PC or another TV.

#### Installing a Game from the Detailed Game Information Screen

- 1. On the Games panel screen, select a game you want to install. If you cannot find a desired game, select All Games.
  - On the All Games screen, select the button on the top right of the screen. The screen displays only games that are compatible with the controller you chose.
  - On the All Games screen, select the button in the upper right side of the screen, and then select a sorting criteria. The games are sorted according to the criteria you selected.
- 2. The Information screen for that game appears displaying information about the game and images and a video from the game. Select the **Download** button to download the game.
- *3.* If the game is free, the game you selected is installed on the TV. If the game is not free, follow the directions on the screen to pay for and download the game.

#### Launching a Game

To run an installed game, select Play on the game's detailed game information screen.

## Managing Downloaded or Purchased Games

#### In Smart Hub, move to the Games panel and select My Page at the bottom of the screen.

- On the My Page screen, select the button on the top right of the screen. The screen displays only games that are compatible with the controller you chose.
- On the My Page screen, select the 🗉 button in the upper right side of the screen, and then select a sorting criteria. The games are sorted according to the criteria you selected.

#### Updating a Game

#### Select Update Game at top of the My Page screen to update games installed on the TV.

- Update Game appears only when there is a game that needs to be updated.
- To update games automatically, select the button at the top of **My Page**, and then set **Auto Update Games** to **On**. Games will now be updated automatically when an update becomes available.

#### **Removing a Game**

- 1. Press the solution at top of the My Page screen, and then select Delete.
- Select a game you want to remove by highlighting the game, and then pressing the touch pad or
   button. Repeat to select additional games to remove. To select all games, select Select All.
- *3.* To deselect a game, highlight it again, and then press the touch pad or 🖼 button. When the selection is complete, select Delete.

#### Rating/Sharing/Reviewing a Game

You can rate or share a game through a social network service or send a review to the developer on the detailed information screen.

Nou can rate / share / review a game only if the game has installed on the TV.

## Using the SAMSUNG APPS Panel



& Usability depends on your specific model and local region.

Smart Hub offers a variety of free news, sports, weather, and gaming apps you can install directly to and enjoy on your TV. The first line on the screen contains apps recommended by Samsung. These apps were automatically downloaded to your TV when you set up Smart Hub. The lines of apps below the first line contain some apps that were automatically downloaded to your TV and other apps you have selected and downloaded.

- Vour TV must be connected to the Internet for you to use SAMSUNG APPS.
- When Smart Hub is launched for the first time, the default apps are automatically installed. The default apps may differ depending on the region.

# Using Supported Features via the Pop-Up Menu - Downloaded Apps

Move the focus to an app in the second row or below, and then press and hold the touch pad. On a standard remote, press and hold the 🖼 button. The Tools menu appears displaying the following functions.

• Move

Lets you relocate an app on the screen.

• Delete

Lets you remove a selected app from your TV.

• Multi Delete

Lets you remove multiple apps from the TV.

• View Details

Displays detailed information about a selected app.

Change View

Lets you change how the apps are sorted on the screen, by Custom or Most Played.

Lock/Unlock

Lets you lock or unlock an app.

• Update Apps

Displays a list of apps that have updates available. You can select which apps to update.

# Using Supported Features via the Pop-Up Menu - Recommended Apps

Move the focus to a recommended app in the top row, and then press and hold the touch pad. On a standard remote, press and hold the G button. A drop down list appears with the following functions.

View Details

Displays detailed information for a selected app.

• Update Apps

Lets you update the apps when updates are available.

Lock/Unlock

Lets you lock or unlock an app.

## Installing an App

#### **Quick Installation**

- 1. On the SAMSUNG APPS screen, select Most Popular, What's new, or Categories.
  - Most Popular and What's new show the most popular and new Samsung apps, respectively. To view the entire app list by genre, select Categories. When the Categories screen appears, select a category icon to view the apps in that category.
- 2. Move the focus to an app, and then press and hold the touch pad. On a standard remote, press and hold the 🖼 button. A pop-up menu appears.

#### 3. On the pop-up menu, select Download.

- Most apps are free to install.
- While an app is being installed, the progress bar appears at the bottom of the app icon so that you can monitor the progress of the installation.
- 4. The selected app is installed on the TV.
  - You can view installed apps on the SAMSUNG APPS screen.

#### Installing an App from the Detailed App Information Screen

- 1. On the SAMSUNG APPS screen, select Most Popular, What's new, or Categories.
  - The Most Popular and What's new show the most popular and new Samsung apps, respectively. To view the entire app list by genre, select Categories. When the Categories screen appears, select a category icon to view the apps in that category.
- 2. Select an app from the list. Detailed information about your selection appears on the screen.
- 3. Select Download to install the selected app on the TV.
  - Most apps are free to install.
  - While an app is being installed, the progress bar appears at the bottom of the app icon so that you can monitor the progress of the installation.
- 4. When the installation is complete, the **Download** button changes to **Open**.
  - You can view installed apps on the SAMSUNG APPS screen.

#### **Additional Notes**

- Mhen the TV's internal memory is insufficient, you can install an app on a USB device.
- You can view icons for the apps saved on the USB device on the Apps screen only when the device is connected to the TV. You can use an app installed on a USB device only when the USB device is connected to the TV. If the USB device is disconnected while the app is running, the app is terminated.
- You can use the app installed on the USB device on a PC or another TV.

#### Launching an App

Select an app on the **SAMSUNG APPS** screen, and then press the touch pad. On a standard remote, press the 🕞 button. You can also start an app from its Detail screen.

#### App Screen Icons

The icons below appear on the Apps screen and indicate the following:

- 🕥 : The app supports motion control.
- 0 : The app supports voice control.
- **I**: The app is installed on a USB device.
- The app supports a pointer that can move by the Samsung Smart Control.

## **Default Apps**

Default apps download to your TV automatically during set up.

#### e-Manual

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

#### **WebBrowser**

WebBrowser is an Internet browsing app. Using WebBrowser, you can surf the Internet on the TV in the same manner as you would using a PC - even while watching a TV program using PIP. Use a keyboard and mouse for a more convenient web browsing experience.

The browsing page may differ from that on a PC.

## Relocating an App on the Apps Screen.

- 1. On the SAMSUNG APPS screen, select to the app you want to move.
- 2. Press and hold the touch pad. On a standard remote, press and hold the 🖼 button. A pop-up menu appears.
- 3. On the pop-up menu, select Move.
  - You may be asked to change the view to Custom.
- 4. Highlight an app you want to move. Move the app to a desired location use the arrows buttons.
- 5. When the app is in it's new location, press the touch pad or press the 🖼 button.
  - You cannot move Recommended Apps.

## Deleting an App from the TV

 ${\mathbb Z}$  If an app is deleted, the data related to the app is also deleted.

#### **Deleting an App**

- 1. On the SAMSUNG APPS screen, move to the app you want to remove.
- 2. Press and hold the touch pad. On a standard remote, press and hold the 🖼 button. A pop-up menu appears.
- 3. On the pop-up menu, select **Delete**. A removal confirmation window appears.
- 4. Select Yes. The selected app is deleted.

#### **Removing Multiple Apps**

- 1. On the SAMSUNG APPS screen, move to an app you want to remove.
- 2. Press and hold the touch pad. On a standard remote, press and hold the 🖼 button. A pop-up menu appears.
- 3. On the pop-up menu, select Multi Delete. A check box appears on the app icons.
- 4. Select all the apps you want to delete. A check mark appears on each app you select. When done, select **Delete** at the bottom of the page. A removal confirmation window appears.
- 5. Select Yes. The selected apps are deleted.

## Rating/Reviewing an App

On the detailed app information screen, you can rate an app or send a review to the app developer.

To rate or review an app, you must log into your Samsung account. You can only rate or review with a TV purchasing apps and games.

## **Updating Apps**

- 1. On the SAMSUNG APPS screen, select an app.
- 2. Press and hold the touch pad. On a standard remote, press and hold the 🖼 button. A pop-up menu appears.
- *3.* On the pop-up menu, select **Update Apps**. A pop-up window listing all the apps with available updates.
- 4. Select the apps you want to update, and then select **Update**. All the selected apps are updated to the latest version.
  - ✓ You can choose all the apps listed in the Update window at once by selecting Select All.

#### Setting Auto App Update

To update apps automatically, navigate to Smart Hub > Apps Settings and set Auto Update to On. The apps will then be updated automatically when an update becomes available.

## **Using Other App Features and Functions**

#### MENU > Smart Hub > Apps Settings

You can configure additional app features and functions.

#### **Enabling Automatic Tickers**

Configure selected tickers to display automatically when the TV is turned on. A ticker is a service that displays stock values, news, weather updates, etc. on the screen in real-time. Enabling the Ticker service brings you up-to-the-minute information while you watch TV.

- To use this feature, make sure that an app supporting the Auto Ticker function is installed on the TV.
- Navigate to Smart Hub > Apps Settings and select Auto Ticker. The apps supporting Ticker Autorun installed on the TV will appear.
- 2. Select apps from the list that you want to run automatically when the TV is turned on.

#### **Setting Push Notification**

The Push notification function lets publishers of some apps installed on the TV send alarm messages containing news about their apps, modification information, etc. The messages are displayed on your screen as you watch TV.

- 1. Navigate to Smart Hub > Apps Settings > Push Notification Settings, and then set Push Notification to On.
- 2. On the Push Notification screen, select the apps you want push notifications for.
  - The Push Notification app lists only the apps that support Push Notification Settings.

#### Using Channel Bound Apps.

A Channel-Bound App is an app that is linked to a particular channel. These apps provide services for or information about programs on the linked channel while you are watching the programs.

#### Navigate to Smart Hub > Apps Settings and set Channel-Bound Apps to On.

Vou can use this feature only when an app supporting **Channel-Bound Apps** is installed on the TV.

## Using the On TV Panel

This function is only available in the U.S.A. and Canada.



& Usability depends on your specific model and local region.

On TV displays your current program live in a small window, a list of recommended programs currently on other channels, and a list of of recommended programs that will air later. You can use these lists to change the channel and watch another program. You can also use these lists to view more information about recommended programs running later, including how much time is left until they air. In addition, you can set up a Schedule Viewing of a program that hasn't aired.

To view a program recommended by **On TV**, select the image. The TV changes the channel and displays the program you selected.

- Availability of recommended content depends on the specific model and area.
- You must connect the TV to the Internet to use On TV.
- The channels or programs recommended by **On TV** may differ from the actual channels or programs depending on the broadcast information provider.

You can use the following features by selecting the buttons at the bottom of the screen.

• Viewing the Program Schedule of Digital Channels

Select **Guide** at the bottom of the screen to view the program schedule of each digital channel. You can check the program schedule and even set up a Schedule Viewing. For more information about **Guide**, refer to the "Using the Guide" section.

🖉 The Guide provides information only about digital channels. Analog channels are not supported.

#### • Program Recommendations by Time

Select **Timeline View** at the bottom of the screen to view program recommendations for different times of the day.

Popular Videos

Select **Trending** at the bottom of the screen to see what is the most trendy or popular content on Twitter, and then set up a Schedule Viewing to view or record that content.

## Using Supported Features via the Pop-Up Menu

Move the focus to a desired program, and then press and hold the touch pad or press and hold the I button. The following options are available:

- 🖉 Available options may differ depending on the selected program.
- Viewing Detailed Information

Lets you view detailed information about the program you selected.

Reserving

Lets you set up a Scheduled Viewing for the program you selected.

## **Viewing Detailed Program Information**

- 1. Move the focus to a desired program, and then press and hold the touch pad or press and hold the 🕞 button. A context-sensitive menu appears.
- 2. On the context-sensitive menu, select View details. Detailed information about the selected program screen appears.

Select a program from the list to see more information about the program and to access the following options:

• Moving to a Channel

Jumps to the selected program's channel.

Reserving

Lets you set up a Schedule or Schedule Recording for the program.

Recording is not supported in the U.S.A and Canada.

• Viewing Related Content

View a list of content related to the program. If you select an item from the list, the detailed information screen of the selected item appears.

• Rate

Lets you rate the program.

• Sharing

You can share information about the selected program via an SNS.

## **Configuring On TV Settings**

#### MENU > Smart Hub > On TV Settings > On TV Setup

Lets you select the source of your TV programs and the source of the program information that appears on the On TV screen (the signal source, cable company provider, etc.). Follow the Instructions that appear on your TV screen when you start this function. On TV Setup is only available if you have not set up Smart Hub.

#### **Receiving Recommended Content Notification**

You can configure the TV to display a notification when a frequently watched program is broadcast. Navigate to Smart Hub > On TV Settings and set Automatic Notifications to On.

#### **Changing Recommendation Type**

Lets you choose the kind of program notifications you will see. Select **Preference** to see notifications for shows you watch often or **Popularity** to see notifications for popular shows. You must enable Automatic Notifications for this function to work. See Automatic Notifications above.

Navigate to Smart Hub > On TV Settings, select Recommendation Type and set it to a desired type.

#### **Removing Adult Content from the Recommended List**

Enabling Block Adult Content prevents the On TV screen from listing TV programs with adult content. Navigate to Smart Hub > On TV Settings and set Block Adult Content to On.

## Using the MOVIES & TV SHOWS Panel

This function is only available in the U.S.A. and Canada.



Usability depends on your specific model and local region.

The MOVIES & TV SHOWS screen lets you buy or rent movies and TV shows online and stream them to your TV using apps you downloaded via Smart Hub. This is called Video on Demand or VOD. To make browsing for VOD content easier, the MOVIES & TV SHOWS screen displays recommended movies and TV shows and displays multiple VOD content sources so you can browse and watch all you want in one place.

- All the MOVIES & TV SHOWS options may not be available depending on the content you are trying to access or your region.
- The TV must be connected to the Internet for you to use MOVIES & TV SHOWS.
- Select O on the screen to change the recommended content list.

The following options are available at the bottom of the MOVIES & TV SHOWS screen:

• Favorites

View the movies and TV programs registered as Favorites.

- To view another account's favorites content list in the Favorites menu, select the Subtrom at the top of the screen and select an account.
- Featured

View movies or TV programs grouped according to various themes such as movies of an actor/ actress who went to Hollywood, acted in a TV series, and so on.

#### • Movies

View movies by release date, popularity, or genre.

• TV Shows

Search TV shows by air date, popularity, or genre.

• Trailers

View movie trailers for upcoming movies.

• Trending

#### View movies and TV programs that are the most trendy or popular on Twitter.

- 🖉 To sort the content items in each menu, select the 🗉 button and then choose a sorting criteria.
- Depending on the selected menu, the <a>button</a> may not appear.
- Pressing the button in the content list page under the MOVIES & TV SHOWS, Movies or TV Shows menu allows you to add content to Favorites. The Favorites menu list can be used to remove content from bookmarks. Note that the button may not be displayed depending on the selected menu.

## Using Supported Features via the Pop-Up Menu

On the **MOVIES & TV SHOWS** screen, select a movie or TV program, and then press and hold the touch pad. On a standard remote, press and hold the 🖼 button. A list with the following options appears:

- Available options may differ depending on the selected content.
- Play Content Now

The pop-up window displays the names of one or more content providers. Select a content provider to play your selected movie or TV program now.

If the app for the content provider you selected is not installed on your TV, a pop-up window appears. In the pop-up window, select to display the app's information page or to install the app immediately. Note that you can also install the app from the app's information page.

#### • Add to/Remove from Favorites

Add the selected content to Favorites or delete it from Favorites.

To view movies and TV programs you have registered as favorites, log into your Samsung account, navigate to the Movies & TV Shows screen, and then select Favorites at the bottom of the screen.

## Watching a Movie/TV Program

- If you are using MOVIES & TV SHOWS for the first time, or you have not logged into your Samsung account, the MOVIES & TV SHOWS screen displays only new and popular movies and TV shows. To view a custom recommended list, you must have used MOVIES & TV SHOWS for a period of time and you must first log into your Samsung account.
- In addition, if you have been using MOVIES & TV SHOWS for a period of time, you can also view your frequently played content list.
- 1. On MOVIES & TV SHOWS screen, select a movie or TV program you want to watch. Detailed information about your selection appears on the screen.
- 2. On the detailed information screen, select a provider app icon to play the content. The selected app is launched, and you can view detailed information about the content in the app.
  - If the app for the content provider you selected is not installed on your TV, a pop-up window appears. In the pop-up window, select to display the app's information page or to install the app immediately. Note that you can also install the app from the app's information page.
- 3. You can play the content by selecting Play or Start in the detailed information screen.
  - If the selected content is free, you can instantly watch the content. If the content is for-pay content, you must first purchase the content in the app (In-App Purchase).
  - The purchasing procedures in each app may differ depending on the app. You may need to log into the service or site that provides the app, or enter payment information.

## Preventing Children from Watching Adult Content

#### MENU > Smart Hub > VOD Rating Lock

You can lock content rated as adult so that children cannot access it.

#### Navigate to Smart Hub and set VOD Rating Lock to On.

To turn the VOD Rating Lock on or off, the security password is required.

## **Adding Content to Favorites**

- 1. On MOVIES & TV SHOWS screen, select a movie or TV program that you want to add to Favorites. Detailed information about your selection appears on the screen.
- 2. Select the Dutton on the detailed information screen. The content is added to Favorites.
  - Select Favorites on the bottom of the MOVIES & TV SHOWS screen to view your favorite content list.
  - Select the button at the top of the content list in each menu to add multiple items to Favorites at once.

## **Rating and Sharing a Purchased Content**

#### **Rating Content**

- 1. Select content on the MOVIES & TV SHOWS screen. Detailed information about your selection appears on the screen.
- 2. Select the **\*\*\*\*\*** button on the detailed information screen. A pop-up window appears.
- 3. In the pop-up window, you can set the star score by using the  $\langle$  and  $\rangle$  buttons.

#### Writing a Content Review on an SNS (Social Networking Site)

- 1. Select content on the MOVIES & TV SHOWS screen. Detailed information about your selection appears on the screen.
- 2. Select either the for v button in the detailed information screen. The login page of the selected SNS appears.
  - If you have linked your Samsung account to your SNS account, you are automatically logged into the SNS when you log into your Samsung account. For information about linking your Samsung account to an SNS account, refer to the "Linking Your Samsung Account to External Service Accounts" section.
- 3. On the SNS login screen, enter your SNS ID and password to log into the SNS.
  - If you have linked your Samsung account to the SNS account, you can skip this step.
- 4. In the pop-up window, type the article you want to post to the SNS, and then select **Post**. The article is posted to the SNS.

# Using the Multimedia Panel (Playing Photos, Videos, and Music)



Usability depends on your specific model and local region.

The Multimedia Panel lets you play media content saved on USB devices, smartphones, cameras, computers, or in a Storage Service site on the TV.

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

## Playing Media Content Saved on a USB Device

- 1. Select USB Drive on the MULTIMEDIA panel. The USB devices connected to the TV are listed.
- 2. Select the device you want to connect to. The folders and files in the selected USB are listed.
- 3. Select the media content you want to play from the list. The media content plays.
  - Alternatively, navigate to the media content you want to play, and then press the > button to play the content.
- 4. To exit, press the **button** or **RETURN** button.
- If you connect a USB device to the TV while watching the TV, the New Device Connected pop-up appears. Select All, Music, Videos, or Photos, and then press the touch pad. On a standard remote, press the button. The folders and files on the USB device are listed.
- Alternatively, if you select a USB device on the **Source** screen, a pop-up window appears on the screen displaying the folders and files of the USB device.

#### Safely Removing a USB Device

- 1. Press the SOURCE button. The Source screen appears.
- 2. Navigate to the USB device you want to remove. Press and hold the touch pad on the Samsung Smart Control or the 🕞 button on a standard remote. An options list window appears.
- 3. Select Remove USB in the list.

## Playing Multimedia Content Saved on a Computer/Mobile Device

- To view a guide about Computer connections, select Connect to a PC on the MULTIMEDIA panel.
- To view a guide about Smartphone or tablet connections, select Connect to a Mobile Device on the MULTIMEDIA panel.

#### Allowing Connections with a Computer/Mobile Device

To play multimedia content located on a computer or mobile device on the TV, you need to:

- First, establish the connection to the computer or device.
- Then, allow the connection with the computer/mobile device on the TV.

For information about establishing connections, see the "Connecting to a Computer" and "Connecting To a Mobile Device" sections.

To allow a connection with a computer or mobile device, follow these steps:

- 1. Select Network Device on the MULTIMEDIA panel. The devices connected to the TV are listed.
- Select Options, and then Multimedia device settings. The devices connected to the TV are listed with their settings.
  - Alternatively, select Multimedia Device Settings from the Network menu to see the list of the devices connected to the TV with their settings.
- *3.* Allow the connection with the device you want to connect to the TV. You can only play media files from devices that have been allowed to connect to the TV.
- If a computer or mobile device asks that it be allowed to connect, the connection allowance confirmation window appears on the TV so that you can easily connect it.
- You can connect to a computer or mobile device on any DLNA DMC device, such as this TV. The DLNA DMC function enables you to connect a mobile device to the TV, search for multimedia content and control play operations on the TV.

#### When Connected Through DLNA Using Your Home Network

- To connect a computer through DLNA using your home network, refer to the "Connecting to a Computer" section.
- To connect a mobile device through DLNA using your home network, refer to the "Connecting To a Mobile Device" section.
- You may experience compatibility issues when attempting to play media files via a third-party DLNA server.
- The content shared by a computer or a mobile device may not play depending on the encoding type and file format of the content. In addition, some functions may not be available.
- The multimedia content may not play smoothly depending on the network status. If this occurs, transfer the content to a USB storage device, and then play content from the device.
- 1. Select Network Device on the MULTIMEDIA panel. The devices connected to the TV are listed.
- 2. Select a device connected through DLNA using your home network, the folders and files shared by the selected device are listed.
- 3. Select the media content you want to play from the list. The media content plays.
  - Alternatively, move to the media content you want to play, and then press the button to play the content.

#### When Connected Through Samsung Link

- To connect a computer through Samsung Link, refer to the "Connecting to a Computer" section.
- 🖉 To connect a mobile device through Samsung Link, refer to the "Connecting To a Mobile Device" section.
- The content shared by a computer or a mobile device may not play depending on the encoding type and file format of the content. In addition, some functions may not be available.
- The multimedia content may not play smoothly depending on the network status. If this occurs, transfer the content to a USB storage device, and then play content from the device.
- Navigate to the Smart Hub > Samsung Account menu, and then select Log In to sign in to your the Samsung account.
- 2. Select Storage Service on the MULTIMEDIA panel. The devices connected to the TV are listed.
- 3. Select a device connected through Samsung Link. The folders and files shared by the selected device are listed.
- 4. Select the media content you want to play from the list. The media content plays.
  - Alternatively, move to the media content you want to play, and then press the button to play the content.

#### Playing Media Content Saved in a Storage Service

Storage Services such as Dropbox and SkyDrive save user content such as photos, videos, and music files on a remote server accessible through the Internet. When your TV is connected to the Internet, you can view or play the media content saved in a Storage Service on the TV.

- To play the content in a Storage Service, you must log in to your Samsung account and link the Samsung account to the Storage Service account. For the information about linking your Samsung account to a Storage Service account, refer to the "Linking Your Samsung Account to External Service Accounts" section.
- 1. Navigate to the Smart Hub > Samsung Account menu, and then select Log In to sign in to your the Samsung account.
- Select Storage Service on the MULTIMEDIA panel. The devices linked with your Samsung account appear.
- 3. Select a desired Storage Service. The folders and files in the selected Storage Service are listed.
- 4. Select the media content you want to play from the list. The media content plays.
  - Alternatively, move to the media content you want to play, and then press the button to play the content.

## **Buttons and Functions Available While Viewing Photos**

The TV displays the buttons below when you press the touch pad - or the 🖃 button on a standard remote - while viewing photos from a multimedia source. The playback buttons disappear if the **RETURN** button is pressed.

• Pause / Play

Start or stop the slideshow. Using slideshow, you can play all the photos in a folder one by one.

• Previous / Next

View the previous or the next photo.

• Settings

The following functions are available when you select the Settings button.

| Function           | Description   |
|--------------------|---|
| Slideshow Settings | Speed: Set the slideshow speed.<br>Effects: Apply transition effects for the slide show.  |
| Rotate             | Rotate the photo.   |
| Zoom               | Zoom in by up to a factor of 4.   |
| Picture Mode       | Change the Picture Mode setting.  |
| Background Music   | <ul> <li>Listen to background music while viewing photos.</li> <li></li></ul>   |
| Sound Mode         | Change the Sound Mode setting.<br>This option is supported only when background music is playing.   |
| Select Speakers    | Choose the speakers to play the background music through. Only available if you have a home theater or receiver connected to the TV.  |
| Send               | <ul> <li>This function is the same as the 'Copy' function of a computer. Using this function, you can send the current photo to another storage device.</li> <li>To see a list of the storage devices supported by this feature, refer to "Compatible Storage Devices for File Transfers".</li> </ul> |
| Information        | View detailed information about the current photo.  |

## **Buttons and Functions Available While Viewing Videos**

The TV displays the buttons listed below when you press the touch pad - or the 🖃 button on a standard remote - while viewing videos from a multimedia source. The playback buttons disappear if the **RETURN** button is pressed.

Pause / Play

Pause or play the video.

When the video is paused, you can use the following functions. The TV does not play audio when the video is paused or when you are using the Step or Slow Motion functions described below.

- Step: Whenever you press the **u** button, it scans the paused video one frame at a time.
- Slow Motion: Select the >> button to play the video in slow playback speed (1/8, 1/4, 1/2).
- Rewind / Fast Forward

Rewind or fast forward the video. Repeatedly select the button to make the rewind/fast forward speed up to 3 times faster. To restore normal playback speed, select the > button.

• Previous / Next

Select the *I* button twice to play the previous video. Selecting *I* once starts the current video from the beginning.

To play the next video, select the >> button.

#### • Settings

The following functions are available when you select the Settings button.

| Function        | Description  |
|-----------------|--|
| Select Scene    | <ul> <li>Thumbnails: Select a scene and play the video from the scene.</li> <li></li></ul>   |
| Subtitle        | Control the subtitles of the video.<br>Language: Turn the subtitles on or off.<br>Sync: When the video and the subtitles are not synchronized, you can adjust the<br>synchronization.<br>Reset Sync: Reset the subtitle synchronization adjustment to 0.<br>Size: Choose the font size for the subtitles.<br>Encoding: If the subtitles are not working, you can change the encoding language. |
| Repeat          | Set the repeat mode. Repeat One repeats the current video only. Repeat All repeats all videos contained in the folder.   |
| Rotate          | Rotate the video.  |
| Picture Size    | Change the picture size. The supported video sizes are determined by the video content.  |
| Picture Mode    | Change the Picture Mode setting.   |
| Sound Mode      | Change the Sound Mode setting.   |
| Select Speakers | Choose the speakers to play the audio through. Only available if you have a home theater or receiver connected to the TV.  |
| Audio Language  | Choose a desired audio language. This option works only when the video supports multi-track sound.   |
| Information     | View detailed information about the video.   |

## **Buttons and Functions Available While Playing Music**

The TV displays the buttons listed below when you press the touch pad - or the 🖃 button on a standard remote - while playing music files from a multimedia source. The playback buttons disappear if the **RETURN** button is pressed.

• Pause / Play

Pause or resume the music.

• Rewind / Fast Forward

Rewind or fast forward the music file. Repeatedly select the button to make the rewind/fast forward speed up to 3 times faster. To restore normal playback speed, select **>**.

• Previous / Next

Select the **I** button twice to play the previous music file. Selecting **I** once starts the current music file from the beginning.

To play the next music file, select the >>> button.

Repeat

Set the repeat mode. **Repeat One** repeats the current music file only. **Repeat All** repeats all music files contained in the folder.

• Shuffle

Play the music files in random order.

Select Speakers

Choose the speakers to play the audio through. Only available if you have a home theater or receiver connected to the TV.

Sound Mode

Change the Sound Mode setting.

## Listening to Music in HD Quality

#### Use MULTIMEDIA on the Smart Hub screen to play HD music in HD native quality.

- & Standard audio signals are sampled at 48 kHz while HD audio signals are sampled at 96 kHz.
- Some S/PDIF receivers may not be compatible. For such incompatible receivers, deactivate **HD Audio** mode and use normal audio mode instead.
- The HD audio signals available on the TV are not available on external audio players connected via HDMI, Bluetooth, or Wi-Fi networks.
- 1. Navigate to Sound > Additional Settings, and set HD Audio to On.
- 2. Select Smart Hub to open the Smart Hub.
- 3. Navigate to Smart Hub > MULTIMEDIA, and specify the file to play in HD quality.
- MD music files have the HD icon next to them in the playlist.
- ✓ Navigate to the music file and select ► to play it.
- Setting HD Audio mode to Off during the playback will stop playing the HD music.
- Playing an HD music file while the Multi-Link Screen is running will automatically terminate the Multi-Link Screen.

## Functions on the Media Content List Screen

On the media content list screen of a storage device, the following functions are provided.

• Filter

Filters the media content so only one type of content - photo, video, or music - is displayed.

• Sort By

Sorts the content list. The sort criteria change depending on the type of content you have selected.

This function is not available when Filter is set to All.

• Options

Displays viewing and playing options. The options displayed vary, depending on the type of content you have selected. Not all options listed below are displayed at the same time.

This function is not available when Filter is set to All.

The following options are available when you select the Options button.

| Function        | Description   |
|-----------------|---|
| Slide Show      | Start the slide show.<br>Available for photos only. If Sort By is set to Folder, this function is not available.  |
| Play Selected   | Play only content you want from the media content list.   |
| Send            | <ul> <li>This function is the same as the 'Copy' function of a computer. Using this function, you can send media content to another storage device.</li> <li> I to see a list of the storage devices supported by this feature, refer to "Compatible Storage Devices for File Transfers". </li> </ul> |
| Encoding        | If the media content's title will not display properly, you can change the encoding language.   |
| Rename Playlist | You can change the name of the playlist you created.  |
| Delete Playlist | Delete a playlist that you created.   |
| Add to Playlist | Add a file to a playlist that you created or create a new playlist.   |
| Index           | For quick access to a content item in a large list, use the Index function. Select a format and then a character. The TV jumps to the section of the list that begins with the character you selected.  |
|                 | You can set the <b>Index</b> to sort and search by date, number, or English alphabet, in descending or ascending order.   |

## Using the NewsON Panel

This function is not available in the U.S.A. and Canada.



Usability depends on your specific model and local region.

**NewsON** provides real-world news and weather information all in on place - no need for a newspaper, smartphone, or computer.

You can find daily information on a wide variety of topics in a smart and convenient way, updated in real time. NewsON brings you the latest headlines, top stories, popular issues, and weather forecasts.

#### News

News articles are updated in real time. Simply select an article on the screen. The selected article will be displayed on the screen in detail.

For longer articles, press the **A** or **v** button on the remote control to scroll the screen.

To move to a different article, press the < or > button on the remote control.

## Weather

Weather information is provided for major cities of your country. Select a weather-related item on the screen. The selected item will be displayed in detail.

## Using the SOCCER Panel

This function is not available in the U.S.A. and Canada.



The screen shown may vary depending on the model.

The **SOCCER** panel offers a variety of information about world soccer matches, featuring videos, news, matchups, and ratings. Adding a favorite team to the Favorite list allows easy access to information about team.

- Before you use the SOCCER panel, check if the TV is connected to the Internet. An Internet connection is required to access the SOCCER panel.
- To view the Quick Guide, select the 2 button.

Move to the navigation bar at the bottom of the screen to access the following options:

• Game highlights

Select Videos to view game highlights of your favorite soccer team.

Hot news

Select News to check the latest news from various information sources around the world.

• Matchup schedules

Select Matchups to check the matchup schedule and game records of your favorite team. Also, if the game is in progress or has ended, you can check detailed information about the game.

• Team and player rankings

Select Rankings to view team standings or a player's stats (goals, assists).

• Setting your favorite team

Select Edit teams, and add a team you support to the favorite list.

## Setting Your Favorite Team

Once you set a favorite team, the **SOCCER** panel will be rearranged to offer information on your favorite team.

- If you have never set a favorite team, select Set your favorite team!! and simply add a team to the list.
- You can add up to 6 teams to the list.
- 1. Select Edit teams on the SOCCER panel.
- 2. Select +.
- 3. Select a league to which the selected team belongs.
- 4. Select the team.
  - If you have added multiple teams to the list, select the button on the SOCCER panel to move to the next team section.

#### Modifying the Favorite Team List

- 1. Select Edit teams on the SOCCER panel.
- 2. Select a favorite team to change.
- 3. Select the league to which the favorite team belongs.
- 4. Select the team. The team yo₩u selected replaces the current team.

#### **Deleting favorite teams**

- 1. Select Edit teams on the SOCCER panel.
- 2. Select Options > Delete.
- 3. Select all of the teams you want to remove.
- 4. Select Delete to remove all the selected teams from the list.
  - On the Edit teams screen, you can also delete teams. Select the team you want to delete, and then press and hold the 🖼 button or the touch pad.

## Controlling the TV with Your Voice (Voice Control)

#### MENU > System > Voice Control (Try Now)

This function may not be available depending on the country or region.

You can access and select certain menu options and functions using voice commands. For more effective voice recognition, speak slowly and clearly in the language specified in the System > Voice Control > Language option.

• Interactive and Imperative Voice Control

Voice Control has two modes: Interactive voice control and Imperative voice control. Interactive voice control lets you give "conversational" instructions to the TV. Imperative voice control requires you to use pre-defined commands. To use Interactive voice control, you must set up Smart Hub, set the clock, and agree to the user's agreement on the use of terms. If you try to use Interactive voice control without completing all of these requirements, the TV displays a notification pop-up. If the pop-up appears, follow the on-screen instructions and complete the necessary settings. Imperative voice control is available regardless of the Interactive voice control settings.

- Please read through the instructions before using Voice Control. For more information, refer to "Read Before Using Voice, Motion, or Face Recognition".
- If you use the Voice Control function interactively at least once, the TV will change the on-screen menu name from Voice Control to Voice Interaction.

## **Using Imperative Voice Control**

- 1. Press the VOICE button on the Samsung Smart Control. When the microphone icon appears on the screen, you can use the Voice Control function.
- 2. Say a command. You can use Voice Control to operate the TV when you are watching a TV program or other videos.
  - Say the command 4 to 6 inches from the microphone on the Samsung Smart Control. Voice commands may not be recognized properly if you speak too softly or loudly. The optimal volume for voice commands is between 75 dB and 80dB.

#### Using the Voice Recognition Tutorial Try Now

#### MENU > Support > Voice Recognition Tutorial

The tutorial lets you familiarize yourself with the basics of using Voice Control. Run Voice Recognition Tutorial from the Support menu, or run Voice Control and say "Quick Guide".

#### Learning Voice Control Basics

• Moving the focus

Say "Focus Left", "Focus Right", "Focus Up", or "Focus Down" to move the focus. These commands can only be used in situations when the focus can be moved.

• Selecting an item

Say "Select" to confirm the selection.

• View available Voice Commands:

Say "View commands". A list of basic voice commands available in context is shown.

• View all Voice Commands:

Say "Help" to display a complete list of voice commands by category. Say the name of a category.

• Deactivating Voice Control

Say "Close Voice Recognition", or press the VOICE button. This terminates Voice Control.

The TV recognizes predefined voice commands only. These voice commands may differ from the manual depending on the version of the TV.

#### Changing the Voice Control Language (Try Now

#### MENU > System > Voice Control > Language

Navigate to **System** > **Voice Control** > **Language**, and then select a preferred language from the list. Now you can use Voice Control in the specified language.

Interactive Voice Control is not available in some languages. If the language you wanted initially is not available, choose a different language.

## **Using Interactive Voice Control**

Interactive voice control allows you to set up a Schedule Viewing, access VODs (Videos on Demand), search for and launch applications, and execute various other functions using specified voice commands without having to remember specific commands or keywords. Saying "Schedule Viewing \*\*\*(Title)", for example, instructs the TV to schedule a program for later viewing.

If you use the Interactive Voice Control function at least once, the TV will change the on-screen menu name from Voice Control to Voice Interaction.

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

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

"Run \*\*\*(Title)" / "Play \*\*\*(Title)" / "Watch \*\*\*(Title)"

• When you want to find a specific program or content item

"\*\*\*(Title)" / "Find \*\*\*(title)")

• When you want to watch a program featuring a specific actor:

"\*\*\*(cast member)" / "Search for movies with \*\*\*(cast member)"

• When you want to reserve and record a program or cancel a scheduled program.

"Schedule Viewing \*\*\*(Title)" / "Schedule Recording \*\*\*(Title)" / "Record \*\*\*(Title)" / "Cancel scheduled item"

Recording is not supported in the U.S.A and Canada.

When you want to know specific information:

"What's the weather in \*\*\*(place name)?" / "What is the \*\*\*(company) stock price?" / "Show me the \*\*\*(team) score."

• When you want program recommendations:

"Do you have any recommendations?" / "Anything interesting on tonight?" / "Show me Comedies (genre) on now."

• When you want to watch a program of a specific genre:

"action movie (genre)" / "Find an action movie (genre)."

• When you want to operate the TV:

"\*\*\*(channel name)" / "Channel \*\*\*(Number)" / "Volume \*\*\*(level)"

- When you want to install or remove an app:
   "More information \*\*\*(Title)" / "Install \*\*\*(app name)" / "Delete \*\*\*(app name)"
- When you play an app for the camera, such as skype, or for fitness:
   "Camera" / "Fitness" / "Skype"
- When you want to play for game:

"Play \*\*\*(Game title)"

• When you log in or out on Samsung Account:

"Sign In \*\*\*(User name)" / "Sign Out \*\*\*(User name)"

#### Enabling/Disabling TV Voice (ry Now

Enable/disable the TV's voice responses to your Voice Control commands. Navigate to System > Voice Control menu, and then select TV Voice.

#### Selecting a Gender for the TV Voice (Try Now

Navigate to System > Voice Control > Voice Gender, and select a gender for the TV voice.

## Controlling the TV using Motions (Motion Control)

#### MENU > System > Motion Control (ry Now)

Motion Control lets you change channels, adjust the volume, and control the pointer while searching the web using Smart Hub.

- Please note that not all apps support Motion Control.
- Please read through the instructions before using Motion Control. For more information, refer to "Read Before Using Voice, Motion, or Face Recognition".

## **Testing Ambient Illumination Using the TV Camera**

#### MENU > System > Motion Control > Motion Control Environment Test (ry Now

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

- Stand 5 to 11.5 feet (1.5 to 3.5m) from the TV screen. Initiate the Motion Control Environment Test, and then select Start. If the TV screen is reflecting light or there are objects moving in the background, the TV may not recognize the motion of your hand.
- 2. Face the TV camera, and follow the onscreen instructions. Raise your hand from a comfortable position with the index finger fully extended upwards, and then move your hand left or right slowly. A pointer appears on the screen when the TV recognizes the action. If recognition fails, change the hand position and try again.

## Checking Ambient Noise and Illumination (Voice & Motion Control Environment Check)

#### MENU > Support > Self Diagnosis > Voice & Motion Control Environment Check (ry Now

Navigate to **Support** > **Self Diagnosis** and select **Voice & Motion Control Environment Check**. This function tests the ambient noise and brightness levels surrounding the TV camera and microphone to ensure if they are suitable for voice and motion control use.
# **Activating Motion Control**

#### MENU > System > Motion Control > Motion Control (ry Now

To enable Motion Control, face the TV camera and raise your hand from a comfortable position with your index finger fully extended upwards, and then move your hand slowly left or right. When your hand is successfully recognized by the TV camera, Motion Control is activated and a pointer appears on the screen.

- When Motion Control is activated, a pop-up window appears and guides you through the basics of using Motion Control.
- Moving your hand out of the range of the TV camera deactivates Motion Control. To reactivate Motion Control, simply move your hand toward the TV camera within 3 seconds.
- Motion Control may be terminated if your index finger is not fully extended or you move it to fast.

## Using the Motion Control Tutorial

#### MENU > Support > Motion Control Tutorial (Try Now

The tutorial lets you familiarize yourself with the basics of using Motion Control. From the **Support** menu, run **Motion Control Tutorial**.

If Motion Control is activated, a pop-up window appears and guides you through the basics of using Motion Control.

## Learning Motion Control Basics

The following basic motion control commands are available:

• Moving the pointer



Moving your hand moves the pointer accordingly.

Selecting an item



Fold down and raise your index finger to select items. This is the equivalent of clicking a mouse button. You can select a TV menu or run a function. Keeping your index finger lowered is like holding down a remote control button.

• Returning to the previous menu



Make a circle with your hand in the counterclockwise direction to return to the previous menu.

• Moving from one Smart Hub panel to another

Move your hand from left to right or from right to left as you would turn a book page. You can move directly from one Smart Hub panel to another. (Example: SAMSUNG APPS panel  $\rightarrow$  On TV panel)

• Displaying the Context-sensitive Menu on Smart Hub



Fold your index finger down for 1 second and then raise it. This displays the context-sensitive menu that is available for the selected item.

• Zooming the picture on the screen in or out



Facing the camera, raise both hands, and then raise the index finger on both hands. Two pointers appear on the screen when the TV recognizes the hands. Fold the index fingers of both hands down, and then horizontally widen or close your hands. This lets you zoom the picture on the screen in or out when the TV is displaying a web page, map, or photo.

• Panning a Zoomed-in Picture



To pan a zoomed-in picture, fold the index finger on one hand down, move the hand in the desired direction, and then raise the index finger.

• Rotating a Picture



Facing the camera, raise both hands, and then raise the index finger on both hands. Two pointers appear on the screen when the TV recognizes the hands. Fold the index fingers of both hands down, and then make a circle with your hands in clockwise or counterclockwise direction. You can rotate the picture when a video or photo is displayed on the screen.

• Using Like function



On Facebook, without activating Motion Control, face the camera, and then raise and hold a thumb up for 2 seconds. This automatically adds the Facebook 'Like' icon. Available only in Facebook.

### Showing and Hiding Animated Motion Guide Try Now

Navigate to System > Motion Control, and then select Animated Motion Guide from the menu. The TV will now display an animated guide when Motion Control is activated.

## Adjusting Pointer Speed (ry Now

Navigate to System > Motion Control > Pointer Speed, and then select a pointer speed.

# **Motion Control Screen Layout**

## Motion Control Layout on the TV Screen

Activating Motion Control while watching the TV activates the following screen icons. These icons appear when you move the pointer to where they are positioned or when you initiate functions that need them.



| lcon                | Description  |
|---------------------|--|
| + /                 | Adjusts the volume.  |
| ⋈⇔◀                 | Mutes or unmutes the TV.   |
| <b>^</b> / <b>∨</b> | Changes the channel.   |
|                     | Launches Smart Hub.  |
|                     | You can split the TV screen and use a variety of functions simultaneously such<br>as watching a TV program, surfing the web, and watching a video. For more<br>information, refer to the "Using Multiple Functions on a Single Screen (Multi-Link<br>Screen)". |
| 9                   | Press this button to search for information through the search window in various services.   |
|                     | The On-Screen Remote Control appears. For more information, refer to the "Displaying and Using the On-Screen Remote" section.  |
| Ð                   | Changes the source.  |
| <b>U</b>            | Turns the TV off   |

## Motion Control Layout on the Smart Hub Screen

Activating Motion Control while using Smart Hub activates the following screen icons. These icons appear when you move the pointer to where they are positioned or when you initiate functions that need them.



| lcon                    | Description   |
|-------------------------|---|
| + /                     | Adjusts the volume. Only available for On TV.   |
| ⋈⇔◀                     | Mutes or unmutes the TV. Only available for On TV.  |
| <u>~</u> / <del>\</del> | Changes the channel. Only available for On TV.  |
| <b>つ</b>                | Returns to the previous menu.   |
| Q                       | Select this button to search for information through the search window in various services.                                   |
|                         | The On-Screen Remote Control appears. For more information, refer to the "Displaying and Using the On-Screen Remote" section. |
| Ð                       | Changes the source.   |
| U                       | Turns the TV off  |

## **Displaying Hidden Icons When Using Smart Hub**

When using Motion Control with Smart Hub, the icons will disappear automatically after 2 seconds of inactivity. To display the hidden icons, move the pointer to one of the three edge areas shown below (marked in blue) and then hold it there for 1 second. The icons will reappear on the screen.



| lcon | Description |
|------|-------------|
| 1    |             |
| 2    |             |
| 3    |             |

# **Using Face Recognition**

Users can register their faces using the TV camera, and sign in to their Samsung accounts using the Face Recognition function. Only one face can be registered per account. Depending on the ambient illumination level and/or shadows over a face, the TV may have difficulty recognizing it.

To use the Face Recognition feature, you need to install a sold-separately camera on the TV. Make sure that the TV is connected to the Internet when installing the camera so that it can download the software required for Face Recognition.

- Please read through the instructions before using Face Recognition. For more information, refer to "Read Before Using Voice, Motion, or Face Recognition".
- ▲ When connecting the TV camera to 2014 Samsung TV models, make sure to connect it to the specified USB port of the TV. Other USB ports do not support the TV camera or Face Recognition.

## **Registering Your Face to Your Samsung Account**

To register your face to your Samsung Account, follow the steps below. To create a Samsung Account if you do not already have one, refer to "Creating a Samsung Account".

- 1. Sign in to your Samsung Account (Smart Hub > Samsung Account > Sign In).
- 2. Navigate to Smart Hub > Samsung Account > Edit Profile. The On-Screen Keyboard appears.
- 3. Enter your account password. When finished, select Done.
- 4. On the Edit Profile screen, select Register Face.
- 5. On the Face Registration screen, align your face within the red circle. When the circle turns green, the TV has recognized your face.
  - Your 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.
  - E For stronger security, check the box to require a password when signing in using Face Recognition.
- 6. Select Take Picture.
- 7. The TV displays your picture. Select OK to accept, Retry to take another picture, or Cancel.
- 8. After you have selected OK, the Edit Profile screen re-appears. Select Done.
  - After you accept your picture, the Sign in Method changes automatically to Face Recognition on the Edit Profile screen.
  - To remove your picture, select Remove Face on the Edit Profile screen.

# Changing Your Login Method to Face Recognition

To change your log in method to Face Recognition, follow these steps:

- 1. Sign in to your Samsung Account (Smart Hub > Samsung Account > Sign In).
- Navigate to Smart Hub > Samsung Account > Edit Profile. The on-screen keyboard appears. Enter your password, and then select Done.
- *3.* On the Edit Profile screen, select **Sign-in Method**. In the drop down list that appears, select **Face Recognition**.
- 4. Select Done.

## Signing in to a Samsung Account Using Face Recognition

To log in using Face Recognition, follow these steps:

- 1. Navigate to Smart Hub > Samsung Account, and then select Sign In.
- 2. Select your Samsung account.
- *3.* If you have set the Samsung account sign in option to Face Recognition, the TV automatically recognizes your face. If recognition fails, try again.
  - If you checked the Password Required box when you set up Face Recognition, you must also enter your password to log in.
  - Vour 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 in to Smart Hub automatically. If the TV recognizes two or more registered faces, a list of corresponding accounts appears. Select the appropriate account. If the TV detects an unregistered face, it displays "Unregistered" on the screen.

# **Digital Broadcast Information at a Glance**

#### MENU > Broadcasting > Guide (Try Now) (Try Now)

The Guide provides an overview of each digital channel's program lineup. You can check the program schedules and set up a Schedule Viewing.

Press the GUIDE button on the remote to launch the Guide.

Me information in the Guide is for digital channels only. Analog channels are not supported.

## Using the Guide

To access the Guide functions, press and hold the touch pad. On a standard remote, press and hold the 🕞 button. A popup window listing the following functions appears.

### **Channel Filter**

Channel filter lets you filter the channels in the **Guide** by the following categories: Added Ch., and Favorites 1 - Favorites 5.

## Navigating the Program Schedule

You can move the Guide by 2 hours in either direction each time you press the « or » button. You can only view programs scheduled after the current time.

### Schedule Manager

This displays the schedule manager. For information about the Schedule Manager, see "Setting Up a Schedule Viewing".

## **Edit Favorite Channels**

Edit favorites lets you designate a channel you have selected in the Guide as a favorite.

#### To use Edit Favorite Channels:

- 1. Highlight a channel you want to add to your favorites in the Guide.
- Press the TOOLS button on the standard remote or press and hold the touch pad on the Samsung Smart Control. The Guide functions pop-up window appears.
- 3. Select Edit Favorite Channels. The Edit Favorites window appears.
- 4. Select the Favorites list you want to put the channel into.

# **Viewing Detailed Information**

Recording is not supported in the U.S.A and Canada.

You can view detailed information about a selected program. The program information may differ depending on the broadcast signal and may not be available at all for certain programs.

- Select a current program on another channel, and then View Details to Watch or Record the program.
- Select an upcoming program, and then select View Details to set up a Schedule Viewing or Schedule Recording.
- For more information about watching or Schedule Viewing refer to "Setting Up a Schedule Viewing".

For more information on Schedule Recording, refer to "Recording Programs".

# **Checking Current Program Info**

Recording is not supported in the U.S.A and Canada.

To get information about a show, press INFO on the standard remote. On the Samsung Smart Control, press the KEYPAD button, and then select INFO on the On-Screen Remote.

- To view the program info, you must first set the TV's clock. Go to Clock (System > Time > Clock).
- The program information may vary depending on the type of incoming signal and may not be available at all for certain programs.

Select the current program in the Program Info window to instantly record the program.

Use the  $\langle$  and  $\rangle$  buttons to view information about upcoming programs. Select a program to set up a Schedule Viewing or Schedule Recording for that program.

For more information on Schedule Viewing, refer to "Setting Up a Schedule Viewing".

For more information on Schedule Recording, refer to "Recording Programs".

## Changing the broadcast signal

#### MENU > Broadcasting > Antenna (ry Now)

You can choose the appropriate DTV mode for your viewing environment. Choose Air or Cable. Air is suitable for homes equipped with a separate, over-the-air antenna. Cable is suitable for homes that have subscribed to a local cable-service or satellite-service provider.

Do not use this function if your TV is connected to a cable or satellite box.

# **Digital Channel Signal Info and Strength**

#### MENU > Support > Self Diagnosis > Signal Information (ry Now

Select **Support** > **Self Diagnosis** > **Signal Information**. This displays the digital channel's signal information and strength.

- If your TV is attached to a separate, over-the-air antenna, you can use the signal strength information to adjust the antenna for increased signal strength and improved HD channel reception.
- Signal information is only available for digital channels.

# **Recording Programs**

This function is not available in the U.S.A. and Canada.

You can record current and upcoming programs using a USB device instead of a video recorder.

However, this is only available for digital channels. The  $\bigcirc$  icon appears next to programs and channels for which a Schedule Recording has been set.

- We recommend a USB hard disk drive with a minimum speed of 5,400rpm for TV recording. USB memory sticks are not supported.
- Read all precautions before using the recording feature.

# Formatting a USB Recording Device

#### > MULTIMEDIA > USB Drive

To record programs on a USB device connected to the TV, the device must first be formatted for the TV. Use the **Format Device** option to prepare the USB device.

- Formatting a USB device erases all data contained on the device. Back up data you want to retain before proceeding. Samsung will not be held responsible for damaged or lost files.
- 1. Press the 🕸 button to launch Smart Hub, and then choose USB Drive from the bottom of the MULTIMEDIA screen. A list of connected devices appears.
- 2. Select the USB device to use. A pop-up window appears.
- 3. Select Yes. This will bring up the Format Device screen and allow you to format the device for TV recordings.
- 4. Once formatting is complete, the USB device is tested to see if it has been properly formatted. You will be able to start using the device after the test is completed. If the device fails the test, it means that this device cannot be used to record TV programs.

## Managing USB Recording Devices

To access functions that let you manage USB recording devices, follow these steps:

- 1. Press the putton to launch Smart Hub, and then choose USB Drive from the bottom of the MULTIMEDIA screen. A list of connected devices appears.
- 2. Select a USB recording device from the list. The list of recordings contained on the device appears.
- 3. Select **Options** from the top of the screen, and then **Manage Device**. The **Manage Device** screen appears.

The following options are available on the Manage Device screen:

• Format Device

Formats the USB device for TV recordings.

• Check Device

Check the malfunctions of USB device. If the USB have a problem, try to recover.

• Device Performance Test

Tests the performance of the USB device. This test tells you whether the USB device can be used for TV recordings.

• Default Recording Device

If there are multiple USB recording devices connected to the TV, use this option to specify the default device.

# **Recording Programs**

You can record current and upcoming programs.

#### **Instant Recording**

Press the • button to begin recording the current program right away.

### Using the Instant and Schedule Recording options from the Guide

Select a current program from the **Guide**, and then select **INFO** on the On-Screen Remote. You can instantly start recording the program. Alternatively, select a program that will air in the future.

### Using the Instant and Schedule Recording options from Program Info

Press the INFO on the On-Screen Remote to display information about the current program. In the information screen, select a program that is currently airing to start recording it right away. Alternatively, press the  $\langle , \rangle$  buttons and select a program that will air in the future to record it.

### Using Schedule Recording to Record on a Specified Date and Time

- 1. Select Broadcasting > Schedule Manager.
- Select Schedule from the Schedule Manager to bring up a pop-up menu. Select Schedule Recording.
- *3.* Specify the Antenna, Channel, Repeat, Start Time, and End Time options for the program you want to record, and then select OK to finish.

# Buttons and Functions Available While Recording a Program

Press the 📑 button while recording a program. The following buttons and the recording progress bar appear on the screen.

#### • Information

Displays detailed information about the program being recorded.

The program information may differ depending on the broadcasting signal and may not be available at all for certain programs.

• REC Time

Lets you select the recording time.

• Stop Recording / Go to Live TV

Stops recording. / Shifts viewing to live TV.

• Rewind / Fast forward

Repeatedly select the Rewind or Fast Forward button to speed up rewind or fast forward to maximum speed in 5 steps. To restore normal playback speed, select Play.

You cannot use Fast forward while watching a program that is currently being broadcast.

• Pause / Play

Lets you pause or resume the video.

Channel List

Displays the channel list.

• Tools

Launches the Tools menu. The Tools menu provides functions that you can use while watching a recorded program.

# Managing the Schedule Recording List

#### MENU > Broadcasting > Schedule Manager

You can change the settings of scheduled recording sessions or cancel scheduled sessions altogether.

### **Deleting Schedule Recording Sessions**

You can delete scheduled recording sessions.

- 1. Select Broadcasting > Schedule Manager.
- 2. Select a session from the Schedule Manager. A pop-up window appears.
- 3. Select Delete. This cancels the selected recording session.

## **Editing Schedule Recording Sessions**

You can change the settings of scheduled recording sessions.

- 1. Select Broadcasting > Schedule Manager.
- 2. Select a session from the Schedule Manager. A pop-up window appears.
- 3. Select Edit, and then change the settings of the selected session.
- 4. Once finished, select OK. This applies the changes you made to the selected recording session.

# **Viewing Recorded Programs**

#### > MULTIMEDIA > USB Drive

Recorded broadcasts can be viewed using the USB Drive option at the bottom of the MULTIMEDIA screen.

- 1. Press the 🕸 button to launch Smart Hub, and then choose USB Drive from the bottom of the MULTIMEDIA screen.
- 2. Select a USB recording device. A list of recordings appears.
- 3. Select a recording file from the list or select the ► button on the On-Screen Remote or press the
  ► button on the standard remote to play the selected file.

## Buttons and Features Available while playing Recordings

On a Standard remote, press the 🖃 button. On the Samsung Smart Control, press the touch pad. The following buttons appear. Pressing the **RETURN** button hides the buttons.

- Buttons that appear are different depending on the file being played.
- Zoom

If the video was recorded in Soccer Mode, you can pause the current file (recorded program), and then select and Zoom in on one of 9 sections of the paused picture.

- Press the A button for easier use.
- You can only use this function for programs recorded in Soccer Mode.
- Stop

Stop the files being played (recorded programs) and then move the stored files.

• Pause / Play

Pause the file (recorded program) or resume playing the file if paused.

When the video is paused, you can use the following functions. However, there is no audio while the video is paused.

- Step: Select the u button, to scan through a video one frame at a time.
- Slow Motion: Select the >> button to play the video back at 1/4 the normal speed.

#### • Rewind / Fast forward

Rewind or fast forward the recorded program. Repeatedly select the Rewind or Fast Forward button to speed up rewind or fast forward to maximum speed in 5 steps. To restore normal playback speed, press the > button.

You cannot use Fast forward while watching a program that is currently being broadcast.

#### • Previous / Next

To play the previous file (recorded program), press **I** twice on the standard remote or select **I** on the On-Screen Remote. Pressing **I** once reloads the current video from the beginning.

To play the next file (recorded program), press the **>>** button on the standard remote or select **>>** on the On-Screen Remote.

This function is not available when the program is recorded in soccer mode.

#### Highlight Player

You can select Highlight Player and view highlights of the current recording.

You can only use this function when highlights of a program which was recorded in Soccer Mode have been saved.

#### • Live TV

This function lets you watch a live program in the PIP window while watching a recorded video on the main screen.

- Switching channels is not supported.
- You can only use this function for programs recorded in Soccer Mode.

#### • Tools

| Function          | Description  |
|-------------------|--|
| Search            | Search Titles: Select and play a different file located in the same folder.<br>Search Time bar: Press left/right button to scan through the file in 1-minute increments or enter a specific time value to jump to that point in the video. |
| Caption           | Turn the subtitles On or Off.  |
| Repeat Mode       | Changes the repeat mode. Choose Repeat One to play the current file repeatedly or Repeat All to play all files in the same folder repeatedly.  |
| Picture Size      | Use to change the size of the screen. The supported picture sizes vary depending on the video.   |
| Picture Mode      | Use to change the picture mode.  |
| Sound Mode        | Use to change the sound mode.  |
| Select Speakers   | Choose the speakers to play the audio through. Only available if you have a home theater or receiver connected to the TV.  |
| Multi-Track Sound | Use to select a different audio language. This option is only available with files that support multi-track sound.   |
| Information       | Displays detailed information about the current file.  |

# Managing Recorded Files

#### > MULTIMEDIA > USB Drive

Select USB Drive on the MULTIMEDIA screen to lock/unlock, rename, delete, and generally manage recorded files.

- 1. Press the *button* to launch Smart Hub, and then choose USB Drive from the MULTIMEDIA screen.
- 2. Select a USB recording device. A list of recordings appears.

## **Saved File List Features**

• Sorting the Saved File List

Sorting with **Sort By**: Select **Sort By** at the top of the screen, and then select a viewing mode. The list is sorted based on the selected viewing mode.

Grouping with Filter: Select Filter at the top of the screen, and then select a filter. The list is refreshed to show only files that match the selected filter.

• Options

| Function      | Description   |
|---------------|---|
| Play Selected | Select files from the file list to create a playlist, and then select Play. The TV plays the files you selected.<br>If the View mode is set to Folder view, only the files contained in the same folder can be selected. To add files from other folders to the playlist, change the View mode. |
| Lock          | Locking files prevents them from being deleted. Select the files, and then select Lock. This locks all selected files.  |
| Unlock        | Use this option to unlock any locked files. Select the files, and then select Unlock. This unlocks all selected files.  |
| Delete        | Deletes recorded files. Select the files, and then select Delete. This deletes all selected files, except files that are locked.  |
| Rename        | Renames a file. Enter the new name using the On-Screen Keyboard. When finished, select Done. The new name can be up to 29 characters long.  |
| Index         | When searching through a large number of media items, select a character. Media items starting with that character appear.  |
| Manage Device | Used to manage USB recording devices connected to the TV. Refer to the "Managing USB Recording Devices" section for more information.   |

# Setting Up a Schedule Viewing

Configure the TV to show a specific channel or program at a specific time and date. The  $\bigcirc$  icon appears next to programs that have been configured for a Schedule Viewing.

To set up a Schedule Viewing, you must first set the TV's clock. Go to Clock (System > Time > Clock).

# **Digital Channel Schedule Viewing**

You can set up Schedule Viewing for programs on digital channels on the following screens:

- The Guide Screen
- The Program Info Screen

#### The Guide Screen

To set up a scheduled viewing on the Guide screen, follow these steps:

- 1. Press the GUIDE button on your remote.
- 2. On the Guide screen, use your remote control to highlight, and then select a program you would like to view.
- *3.* On the Information Screen that appears, select **Schedule Viewing**. The program is scheduled for viewing. The **Guide** screen re-appears.

## The Program Info Screen

Recording is not supported in the U.S.A and Canada.

To set up a Schedule Viewing or Schedule Recording on the INFO screen, follow these steps:

- 1. Change the channel to the channel that will be broadcasting the program you want to schedule.
- Press INFO on the standard remote. On the Samsung Smart Control, press the KEYPAD button, and then select the INFO button on the On-Screen Remote.
- 3. Move right to see program information for later broadcasts. The program information for the programs that will be broadcast later on that channel is displayed on the screen.
- 4. Highlight and then select the program you want to schedule or record. The Information screen appears.
- 5. Select Schedule Viewing or Schedule Recording. The program is scheduled for viewing or recording. Press the RETURN button on your remote.

# Analog Channel Schedule Viewing

#### MENU > Broadcasting > Schedule Manager (Try Now

When you set up a scheduled viewing for an analog channel, you need to know the channel, day or days of the week the program is airing, and the time the program is airing.

To set up a schedule viewing for an analog station, follow theses steps:

- 1. Press the MENU button, and then select Broadcasting > Schedule Manager.
- 2. On the Schedule Manager screen, select Schedule. The Schedule Viewing screen appears.
- 3. On the Schedule Viewing screen, select the Antenna connection (Air or Cable), and then move to the Channel field.
  - If you only receive your TV broadcasts through Air or Cable, the Antenna connection field displays only Air or only Cable.
- 4. Highlight the Channel filed, and then select it. Scroll it up or down, find the desired channel, and then select it. Move to the Repeat field.
- Highlight the Repeat filed, and then select it. Select Once, Manual, Sat~Sun, Mon~Fri, or Everyday. If you select manual, you must also highlight and select the days you want.
- 6. Move to the Time field, and then select it. Set the hours by using the Up/Down directional buttons to move the numbers up or down. Do the same for the am/pm and minutes fields.
- 7. When done entering the time, press RETURN.
- 8. Select OK at the bottom of the Schedule Viewing screen.

# **Canceling a Schedule Viewing**

To cancel a specific scheduled viewing, follow these steps:

- 1. Press the MENU button, and then select Broadcasting > Schedule Manager.
- 2. On the Scheduled screen, select the scheduled viewing. A pop-up menu appears.
- 3. Select Delete to cancel.
- 4. Select Yes on the "Remove this show" pop-up. The scheduled viewing is removed.

# **Editing a Schedule Viewing**

To edit the time, days, or channel of a Schedule Viewing, follow these steps:

- 1. Press the MENU button, and then select Broadcasting > Schedule Manager.
- 2. On the Scheduled screen, select the scheduled viewing. A pop-up menu appears.
- 3. Select Edit.
- 4. Change the time, days, or channel in the way described in Analog Channel Schedule Viewing. Select OK when done.

# **Using Timeshift**

This function is not available in the U.S.A. and Canada.

Timeshift lets you pause and rewind live TV as you would a DVD. Timeshift is only available for digital channels. Activating Timeshift disables the **Broadcasting** option.

- To use Timeshift, you must connect a USB recording device to the TV. Refer to the "Formatting a USB Recording Device" section for more information.
- We recommend a USB hard disk drive with a minimum speed of 5,400rpm for use with the TV's Timeshift feature. USB memory sticks are not supported.
- Read all precautions before using the Timeshift function.

Press > while watching TV to activate the Timeshift function. The TV displays a progress bar and the following buttons at the top of the screen:

• Information

Displays detailed information about the current program.

- The program information may vary depending on the type of incoming signal and may not be available at all for certain programs.
- This button is only available when you are watching a live program.
- Go to Live TV / Stop Timeshift

Shift to live TV or exit Timeshift.

• Pause

Pauses the screen.

The following features are available while the screen is paused. However, there is no audio while the video is paused.

- Step: Select the **u** button, to scan through a video one frame at a time.
- Slow Playback: Select the « / » to play the video back at 1/4 the normal speed.
- Rewind / Fast forward

Repeatedly select the Rewind or Fast Forward button to speed up rewind or fast forward up to 5 times. To restore the normal playback speed, select ►.

You cannot use Fast forward while watching a program that is currently being broadcast.

Channel List

Displays the channel list.

• Tools

Launches the Tools menu.

# Using the Channel List

#### MENU > Broadcasting > Channel List (ry Now

Press and hold the **GUIDE** button while watching TV to bring up the **Channel List** and change the channel or check programs on other digital channels.

Select a channel from the **Channel List** to jump to it right away. To quickly scroll through the list, use the channel up/down buttons. This moves the focus one page at a time.

The Channel List screen contains the following icons:

- 🔺 : An analog channel
- 🔍 : A favorite channel
- 🗎 : A locked channel
- Using Options

Press the  $\triangleleft$  button, and then select **Options**. The following options are available:

| Function       | Description   |
|----------------|---|
| Antenna        | Choose Air or Cable as the DTV mode. Air is suitable for homes equipped with separate, over-the-air antennas. Cable is suitable for homes that subscribe to a local cable-service or satellite-service provider.            |
| Category       | Channels stored in the TV are grouped into the following categories: Added Ch.,<br>Recently Viewed, and Mostly Viewed. Choose a category.<br>Recently Viewed and Mostly Viewed are only available if they contain channels. |
| Genre          | Sort the list so that it includes channels of a selected genre only. You can only use Genre if you have set the channel mode in the Channel List to Added Ch. and only if the added channels contain genre information.     |
| Edit Favorites | Designate favorite channels. Refer to the "Creating a Personal Favorites List" section for more information.  |

#### • Viewing the Added Channels or Favorites Lists

In the Channel List, press the > button, and then select Added Ch. or Favorites. Favorites will only appear if you have registered at least one favorite channel. For more information, refer to "Creating a Personal Favorites List".

# Registering, Removing, and Editing Channels

#### MENU > Broadcasting > Edit Channel (ry Now)

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

- 🔺 : An analog channel
- 💙 : A favorite channel
- 의 : A locked channel

# **Registering and Removing Channels**

#### MENU > Broadcasting > Edit Channel

### **Removing Registered Channels**

Removing a registered channel from the channel index removes it from the list of channels you can access using the CH.LIST buttons on your remote. Removing channels appearing in the Recently Viewed or Mostly Viewed list clears the channels from those lists only and does not remove them from the index.

- 1. Move the highlight to a channel, and then select it to remove it. Repeat to select additional channels.
- 2. To unselect a channel, move the highlight to the channel, and then select it.
- *3.* To select all channels, select **Options**, and then select **Select All** from the list. You can also select **Deselect All**.
- 4. After you have made your selections, select Delete.

## Adding Back Removed Channels

You restore channels to the index of channels by adding them back. Removed channels are displayed in gray in the All list only. In addition, the Add option is only available for removed channels.

- 1. Select Options to display a list of options. Select Category from the list, and then select All.
- 2. Move the highlight to a channel you want to add. Repeat to select additional channels.
- 3. To unselect a channel, move the highlight to the channel, and then select it.
- 4. To select all channels, select **Options**, and then select **Select All** from the list. You can also select **Deselect All**.
- 5. After you have made your selections, select Add.

## **Editing Registered Channels**

#### MENU > Broadcasting > Edit Channel

Select **Options** at the bottom left of the screen to access the following options. The available options may vary depending on the broadcast signal.

• Select All

Selects all channels displayed on the Edit Channel screen.

• Antenna

Choose Air or Cable as the DTV mode.

• Category

Channels stored in the TV are grouped into the following categories: All, Added Ch., Recently Viewed, and Mostly Viewed.

Edit Favorites

Designate favorite channels. For more information, refer to "Creating a Personal Favorites List".

Rename Channel

Rename analog channels. The new name can be up to 5 characters long.

• Information

View detailed information about the current program.

# **Program Rating Lock**

#### MENU > Broadcasting > Program Rating Lock

The **Program Rating Lock** feature lets you block programs based on their ratings. This is useful for controlling what children watch on TV. Program Rating Lock does not block programs originating from external sources, such as Blu-ray players, DVD players, or USB files.

Every time you access the **Program Rating Lock** feature, you must enter the security PIN. You must also enter this PIN to watch a blocked program. The default PIN is 0000. To change the PIN, go to **System** > **Change PIN**.

The Program Rating Lock is available only in TV mode.

## **Blocking Programs Using the TV Rating**

To block content, select a rating category to lock. All programs at that level and higher are blocked and require the PIN to watch. To unblock a category, select the lock icon. To unblock all the categories in a row, select the lock under ALL.

#### Categories on the left:

- TV-Y: Young children
- TV-Y7: Children 7 and over
- TV-G: General audience
- TV-PG: Parental guidance
- TV-14: Viewers 14 and over
- TV-MA: Mature audience

#### Categories on the top:

- ALL: Lock all TV ratings.
- FV: Fantasy violence
- V: Violence
- S: Sexual situations
- L: Adult Language
- D: Sexually Suggestive Dialog

## Blocking based on Movie Rating (MPAA)

Block movies based on their MPAA rating. This applies to all material with supplied ratings in the USA.

#### From the MPAA:

"The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children."

Select a lock beside one of the rating categories to block that category and all higher categories. To unblock a category, select the lock icon.

- G: General audience (no restrictions).
- PG: Parental guidance suggested.
- PG-13: Parents strongly cautioned.
- R: Restricted. Children under 17 should be accompanied by an adult.
- NC-17: No children under age 17.
- X: Adults only.
- NR: Not rated.

## Blocking Based on Canadian English Rating

Block material based on its English Canadian rating. This applies to all rated material viewed on English-Canadian TV channels.

Select a lock beside one of the rating categories to block that category and all higher categories. To unblock a category, select the lock icon.

- C: Programming intended for children under age 8
- C8+: Programming generally considered acceptable for children 8 years and over to watch on their own
- G: General programming, suitable for all audiences.
- PG: Parental Guidance
- 14+: Programming containing themes or content which may not be suitable for viewers under the age of 14
- 18+: Adult programming

## Blocking Based on Canadian French Rating

Block material based on its French Canadian rating. This applies to all rated material viewed on French-Canadian TV channels.

Select a lock beside one of the rating categories to block that category and all higher categories. To unblock a category, select the lock icon.

G: General

8 ans+: Programming acceptable for children 8 years and over to watch on their own

- 13 ans+: Programming that may not be suitable for children under the age of 13
- 16 ans+: Programming not suitable for children under the age of 16
- 18 ans+: Programming restricted to adults

## Blocking Based on Downloadable U.S. Rating

Block material based on its **Downloadable U.S. Rating**. This rating system only applies to material originating from US DTV channels.

Parental restriction information is automatically downloaded while you watch DTV channels. This download may take several seconds. If the information is unavailable from the broadcasting station, the **Downloadable U.S. Rating** menu is deactivated.

Parental restriction levels differ depending on the broadcasting station. The default menu name and the **Downloadable U.S. Rating** name changes depending on the downloaded information.

Even when the on-screen display is set to another language, the **Downloadable U.S. Rating** menu appears only in English.

Select a lock beside one of the rating categories to block that category and all higher categories. To unblock a category, select the lock icon.

## Watching Blocked / Restricted Programs

To watch a blocked program, enter the PIN when requested.

When initially showing a restricted program or movie, the screen is blank because the **Program Rating Lock** blocks it. Enter the PIN to unblock the program when a message appears requesting the code.

# **Creating a Personal Favorites List**

#### MENU > Broadcasting > Edit Favorites (Try Now

You can designate frequently watched channels as favorite channels. Favorite channels are highlighted in the Edit Channel and Channel List screens with the V symbol. You can create up to 5 favorite channel lists.

## **Registering Channels as a Favorites**

MENU > Broadcasting > Edit Favorites

### Registering the Current Channel as a Favorite

To register the current channel as a favorite:

- 1. While watching a TV channel, press the **TOOLS** button on the standard remote. On the Samsung Smart Control, press the **KEYPAD** button, and then select **TOOLS** on the On-Screen Remote.
- 2. Select Edit Favorites from the list.
- 3. In the popup window that appears, select the Favorites lists you want, and then select OK.

You can select more than one Favorites list.

4. Select OK again. The TV has added the current channel to the Favorites list(s) you selected.

## **Registering Multiple Channels as Favorites**

To register multiple channels as favorites at the same time:

- 1. Press the MENU button, and then select Broadcasting > Edit Favorites.
- 2. Select Category on the screen.
- 3. Press the touch pad repeatedly on the Samsung Smart Control or the 🖼 button repeatedly on the standard remote to cycle through the Added Ch., Recently Viewed, and Mostly Viewed categories until the screen displays the category list you want. These lists are displayed in the center of the screen.

Recently Viewed and Mostly Viewed are only available if they contain channels.

- 4. Select the channels that you want to add to your Favorites list(s) from the list in the screen.
- 5. Select Change Fav. on the screen.
- 6. Press the touch pad repeatedly on the Samsung Smart Control or the 🖼 button repeatedly on the standard remote to cycle through the Favorites list until the list you want appears.
- 7. Select Add on the screen. The TV adds the channels you selected to the Favorites list you chose.

## Selecting from Favorite List Channels Only

To flip through Favorite list channels only and select a channel using the channel up/down buttons:

- You can select a Favorites list only if it contains at least one favorite channel.
- 1. Press the MENU button, and then select Broadcasting > Channel List. The Channel List appears.
- 2. Press the > button. A Favorites list appears.
- 3. Press the **<** or **>** button to view other Favorites list.
- 4. Highlight a channel from the selected Favorites list using the channel up/down buttons, and then select it. The channel changes.

# **Editing a Favorites List**

#### MENU > Broadcasting > Edit Favorites

You can rename and edit Favorites lists.

# **Edit Favorites Screen Menu Items**

#### Select Options on the Edit Favorites screen to access the following options:

Copy to Favorites

Copy channels from one favorite channels list to another. Refer to the "Copying Channels from One Favorites list to Another" section for more information.

- You can use **Copy to Favorites** only if you have registered one or more channels to at least one Favorites list.
- Rename Favorites

Rename an existing favorite channels list. Refer to the "Renaming a Favorites List" section for more information.

🖉 You can use Rename only if you have registered one or more channels to at least one Favorites list.

• Antenna

Choose between Air and Cable.

• Edit Channel

Lets you manage the channels saved on the TV. For more information, refer to "Registering, Removing, and Editing Channels".

• Information

View detailed information about the current program.

## **Removing Registered Channels from a Favorites List**

To remove channels from a favorite list:

- 1. Select Change Fav..
- 2. Press the touch pad repeatedly on the Samsung Smart Control or the 🖼 button repeatedly on the standard remote to change the Favorites list on the screen to the Favorites list you want to use.
- 3. Select the channels you want to remove from the selected Favorites list.
- 4. Select Delete. The channels are removed.

## **Rearranging a Favorites List**

To rearrange the order of the channels in a favorite channels list:

- 1. Select Change Fav. at the screen.
- 2. Press the touch pad repeatedly on the Samsung Smart Control or the 🕞 button repeatedly on the standard remote to change the Favorites list displayed to the Favorites list you want to use.
- 3. In the selected Favorites list, choose the channels you want to rearrange.
  - The TV will move the channels you selected as a group and rearrange them so they are displayed one after another in their new location.
- 4. Select Change order. The Change Order highlight appears highlighting the channel you chose that is closest to the top of the screen.
- Press the ∧/∨ arrow buttons to relocate the channels you selected. Press the touch pad on the Samsung Smart Control or the dutton on the standard remote to set the channels into their new location in the list.

### **Renaming a Favorites List**

To rename an existing favorite channels list:

- 1. Select **Options** on the screen. A list of Options appears.
- 2. Select Rename Favorites from the list. A popup window appears.
- *3.* In the popup window, select the Favorites list whose name you want to change. The on-screen keyboard appears.
- 4. On the keyboard, select the Clear button on the right. The current name displayed in the text entry field disappears.
- 5. Using the keyboard, enter a new name. The new name can be up to 20 characters long.
- 6. When finished, select **Done**. The list of favorite lists appears displaying the renamed list. Select **OK**.

## Copying Channels from One Favorites list to Another

To copy channels from one favorite channels list to another:

- 1. Select Change Fav.
- 2. Press the touch pad repeatedly on the Samsung Smart Control or the repeatedly button repeatedly on the standard remote to change the displayed Favorites list to the Favorites list that contains the channels you want to copy.
- 3. Select Options on the screen. A list of Options appears.
- 4. Select Copy to Favorites from the list. A popup window appears.

Copy to Favorites is only available if there are channels in at least one Favorites list.

- 5. In the popup list, select the Favorites lists you want to copy the selected channels to.
- 6. When done, select OK. The TV copies the channels. Select OK again.

# Making Sports Programs More Realistic with Soccer Mode

#### MENU > System > Soccer Mode

This function is not available in the U.S.A and Canada.

Soccer Mode enables the optimal picture and sound settings for sports events, making them appear and sound as if you are there. In addition, if a recording device is connected to the TV when you are using Soccer Mode, you can use both the video recording and time shift functions at the same time while watching the sports game, as well as watching the highlights extracted from the recorded sports game automatically or manually.

- For more information about recording a program and using a recording device, refer to the "Recording Programs" section.
- E For more information about the Timeshift feature, refer to the "Using Timeshift" section.
- When the Soccer Mode is On, the Data Service is not available.

# **Enabling Soccer Mode**

#### MENU > System > Soccer Mode > Soccer Mode

Go to System > Soccer Mode and then set Soccer Mode to On. The picture and sound modes of the TV are automatically optimized for sports events.

- Enabling Soccer Mode changes the Picture Mode to Stadium and the Sound Mode to Stadium, and disables some Picture and Sound menus.
- Press the 🛞 button to turn Soccer Mode on or off.

## **Extracting Highlights Automatically**

#### MENU > System > Soccer Mode > Auto Highlights

Select System > Soccer Mode, and then set Auto Highlights to On. You can configure the TV to extract highlights of a soccer match automatically.

However, Auto Highlights is not available with these TV operations:

- Switching the input signal using the SOURCE button.
- Launching the 3D
- When Voice Description is set to On
- Auto Highlights performance depends on the characteristics of the transmitted signal.
- It is advisable to use Auto Highlights only while watching a soccer game. Using this for other sporting events may display irrelevant picture frames.
# Functions Available While Watching Sports in Soccer Mode

Press the I button. The following buttons appear.

• Zoom

Pause the current video and select and zoom into one of the 9 blocks of the still picture. You can pan out of the zoomed-in picture using the  $\land$ ,  $\lor$ ,  $\checkmark$ ,  $\checkmark$  and  $\gt$  buttons.

- Select or press the A button to launch the Zoom function easily.
- You cannot use this function when watching 3D channels or when PIP or MULTIMEDIA is active.

#### • Save as Highlight

#### Save a video from 10 seconds before pressing the Save as a Highlight button to 10 seconds after.

- Select or press the **B** to launch the Save as Highlight function easily.
- You can only use this function when a recording is in progress.
- You can set the TV to automatically save highlights without user intervention. Select System > Soccer Mode, and then set Auto Highlights to On.

#### • Stop Recording / Go to Live TV

When you are watching a live program, you can stop a recording by pressing this button. When you are watching a recorded program, you can switch to a live program by pressing this button.

You can only use this function when a recording is in progress.

#### Record

Instantly record the game you are currently watching on the TV.

 ${f \ell}$  You can only use this function when the recording function is supported.

#### Rewind

Rewind the current video. Repeatedly select this button to increase the rewind speed up to max 5 steps.

You can only use this function when a recording is in progress.

#### • Pause / Play

Pause or resume the video.

You can only use this function when a recording is in progress.

• Fast forward

Fast forward the current video. Repeatedly select this button to increase the fast forward speed up to max 5 steps.



Highlight Player

Display the **Highlight Player** screen and play the automatically or manually saved highlights in the recorded file. However, **Highlights Player** is not available with these TV operations:

- Switching the input signal using the SOURCE button
- Launching the 3D
- When Voice Description is set to On
- You can only use this function when a recording is in progress.

#### • Watch Live TV at the same time

Watch a current program in a PIP window while watching a recorded program. To exit PIP mode, press the button again. However, Watch Live TV at the same time is not available with these TV operations:

- Switching the input signal using the SOURCE button
- Launching the 3D
- When Voice Description is set to On
- You can only use this function when a recording is in progress.
- This button is only available while you are watching a recorded program.
- Information

#### View detailed information about the current program.

- This button is only available while you are watching a live program.
- SOCIAL TV

Launch an SNS app.

# Viewing a game recorded in Soccer Mode

#### You can view a recorded game using the USB Drive option on the MULTIMEDIA screen.

- E For more information, refer to "Viewing Recorded Programs".
- Availability depends on your specific model and area.

# **TV-Viewing Support Features**

# **Showing Captions**

#### MENU > System > Accessibility > Caption (ry Now

#### You can watch TV broadcasts with captions.

- Leven if enabled, captions will not be displayed by programs that do not support captions.
- Press and hold the 🛱 button on the Samsung Smart Control to turn the Caption function on or off.

#### Enabling Captions (ry Now

#### Select System > Accessibility > Caption > Caption

The TV cannot control or modify DVD or Blu-ray subtitles. To control DVD or Blu-ray subtitles, use the subtitle feature of the DVD or Blu-ray player and the player's remote control.

#### Selecting the Caption Language Try Now

Select System > Accessibility > Caption > Caption Mode to display a list of subtitle modes. The list of modes may vary depending on the broadcast.

• Default / CC1 ~ CC4 / Text1 ~ Text4

(Analog channels only) The analog caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcast signal, the analog caption function may or may not work with digital channels.)

#### • Default / Service1 ~ Service6 / CC1 ~ CC4 / Text1 ~ Text4

(Digital channels only) The digital caption function works with digital channels. Service1 - Service6 may not be available in digital caption mode depending on the broadcast.

#### Changing the Font Color, Caption Size, and Font Opacity Try Now

Change the font color, background color, and size settings.

Select System > Accessibility > Caption > Digital Caption Options and then choose the setting to change.

• Size

Use to change the font size. Size is not supported by analog channels.

• Font Style

Choose the font style for the subtitles.

• Font Color

Use to change the font color.

Background Color

Use to change the caption's background color.

Window Color

Use to select the color of the digital caption window.

• Font Opacity

Use to change the caption's opacity.

Background Opacity

Use to change the background's opacity.

Window Opacity

Use to select the transparency level of the digital caption window.

• Edge Type

Use to select outline type of the digital captions.

Edge Color

Use to select the color outline of the digital captions.

• Return to Default

This restores all caption display options to **Default**. Setting to **Default** applies the TV station's transmitted settings.

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

# Enabling the Audio Guide for the Visually Impaired

#### MENU > System > Accessibility > Video Description (ry Now

Select **System** > **Accessibility** > **Video Description**. Activates the audio guide for the visually impaired. This function is only available with broadcasts that provide this service.

Press and hold the 🛱 button on the Samsung Smart Control to turn on or off Video Description. Availability depends on the specific area.

### **PIP Broadcast Viewing**

#### MENU > Picture > PIP (ry Now

Use the PIP ("Picture-In-Picture") function to watch TV in a small window within the main screen while also watching content from a DVD player, Blu-ray player, computer, or a different external device on the main screen.

Select **Picture** > **PIP** to display the PIP settings screen. The PIP settings screen contains the following options:

• PIP Setting

Activates/deactivates PIP.

Antenna

Choose Air or Cable as the digital channel mode.

• Channel

Select the PIP sub-picture channel.

• Size

Select the PIP sub-picture size.

• Position

Select the PIP sub-picture position.

Select Sound

Select the audio source.

#### Choose a broadcast.

- You cannot use PIP while using Smart Hub or the 3D function.
- Turning off the TV automatically disables PIP.
- Playing a game or using the karaoke feature on the main screen can result in lower PIP picture quality.
- For PIP to work, the main screen's source must be Component or HDMI and the input resolution must be less Full HD (FHD 1080p). The PIP sub-screen supports digital channels only.

# Scanning for Available Channels

#### MENU > Broadcasting > Auto Program (Try Now)

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

- Do not use this function if your TV is connected to a cable or satellite box.
- If the TV has saved channels, Auto Program deletes the existing list, and then saves the newly scanned channels.
- 1. Select Broadcasting > Auto Program.
- Select Start when prompted. This initiates the Auto Program function. The process can take up to 30 minutes to complete.

### Selecting the Broadcast Audio Language

#### MENU > Broadcasting > Audio Options (Try Now)

Configure the program's audio language. Audio Options functions differently for analog and digital channels.

On the Samsung Smart Control, press the KEYPAD button, and then select INFO to view the current broadcast's audio signal information. On the standard remote, press the INFO button.

#### Selecting the Broadcast Audio Language (Digital)

Selecting a Language (Try Now

Select Audio Options > Preferred Language, and then choose a language. Digital broadcasts contain audio signals in multiple languages. Digital programs that include the language you selected in Preferred Language are automatically played using that language. If the language you selected is not supported by the broadcast signal, the TV will use the default audio language broadcast by the TV station.

#### Selecting the Broadcast Audio Language (Analog)

Listening to Multi-Track Sound (Try Now)

Select Audio Options > 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. However, this option is automatically set to mono if the broadcast signal or program does not support stereo.

- On the Samsung Smart Control, press the KEYPAD button, and then select Info to view the current broadcast's audio signal information. On the standard remote, press the INFO button
- While watching TV, press the KEYPAD button on the Samsung Smart Control, select TOOLS on the On-Screen Remote, and then select Multi-Track Sound. On the standard remote, press the TOOLS button, and then select Multi-Track Sound.

# Fine-Tuning the Screen

#### MENU > Broadcasting > Channel Settings > Fine Tune (ry Now

Available for analog broadcasts only.

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.

- 1. Select Broadcasting > Channel Settings > Fine Tune. An adjustment bar appears on the screen.

### **Remove Scrambled Channels**

#### MENU > Broadcasting > Channel Settings > Clear Scrambled Channel

Remove scrambled channels from your auto-programed channel list.

# Changing the Picture Mode and Adjusting the Picture Quality

# Choosing the Right Picture Mode for the Viewing Environment

#### MENU > Picture > Picture Mode (ry Now)

The following picture modes utilize different contrast and brightness settings to provide the best viewing experience for the environment.

- Navigate to Edit Name, if you use the PC setting for PC or DVI PC, you can only available Standard and Entertain.
- Dynamic

If the ambient lighting is too bright and makes the screen blurry, use this mode to make the picture clearer.

• Standard

This is the default mode suitable for most environments.

Natural

This mode is useful for reducing eye strain.

Movie

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

• Entertain

Sharpens images for a more dynamic viewing experience.

This mode is only available when you use a PC setting for PC or DVI PC on Edit Name.

# Adjusting the Picture Quality for Each Picture Mode

#### MENU > Picture

Select one of the settings below from the **Picture** menu to display the slide bar for the selected setting. Adjust the value by pressing the  $\langle$  or  $\rangle$  button on your remote. Choose a different setting by pressing the  $\wedge$  or  $\vee$  button. Adjusted values are applied to the current source and picture mode.

The Color and Tint (G/R) settings cannot be adjusted when the TV is connected to a computer via an HDMI to DVI cable.

Choose a Picture Mode - Dynamic, Standard, Natural, Movie - and then adjust the settings.

Backlight (Try Now

Adjusts the brightness of individual pixels. Decreasing the brightness reduces power consumption.

Contrast Try Now

Adjusts the screen contrast.

Brightness (Try Now

Adjusts the overall brightness.

Sharpness (Try Now

Sharpens or dulls the edges of objects.

Color Try Now

Adjusts the overall color saturation.

• Tint (G/R) (Try Now

Adjusts the ratio of green to red. Increase the green value to saturate the greens and the red value to saturate the reds.

Adjusted values are saved by the TV for the current source and picture mode, and remain in effect each time the source and picture mode is selected. Consequently, the TV can have different picture settings for each external source.

#### Applying the Current Picture Settings to Other Input Sources (Try Now

#### MENU > Picture > Apply Picture Mode

You can apply the picture quality setting that you configured for the TV to all external devices connected to the TV or to the current source only.

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

### Fine-Tuning Each Picture Mode (Advanced Settings)

#### MENU > Picture > Advanced Settings (ry Now

Select **Picture** > **Advanced Settings** to fine-tune how images are displayed on the TV screen for each **Picture Mode**.

- Advanced Settings is only available when the 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.

#### Choose a Picture Mode and then adjust the settings.

Dynamic Contrast (Try Now)

Automatically adjusts the screen contrast. Use this option to achieve the optimal contrast setting.

Black Tone Try Now

Adjusts the black color depth.

Flesh Tone (Try Now)

Darkens or lightens skin tones.

RGB Only Mode Try Now

Adjusts the red, green, and blue levels individually.

#### Color Space (ry Now)

Adjusts the range of colors (the color space) that the TV can display. Auto automatically adjusts the color space depending on the input signal. Native applies a range that is wider than the input signal. Custom allows you to adjust the color space manually.

#### White Balance (Try Now)

You can adjust the color temperature of the picture to make white objects look white, and the overall picture appear natural.

**2 Point**: Lets you adjust red, green, and blue luminosity with the offset menu and brightness with the gain menu. To restore the default values, select **Reset**.

**10 Point:** Divides red, green, and blue into 10 sections each, and lets you modify the white balance by adjusting the brightness of each section. Select the section to adjust in the Level field.

You can use the 10 Point function only when the Picture Mode is set to Movie. Some external devices may not support this function.

#### Gamma (Try Now

Adjusts the primary color intensity.

#### Motion Lighting (ry Now)

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

- This feature is only available when the Picture Mode is set to Standard and is not available in 3D mode.
- Adjusting the Contrast, Brightness, and other picture quality settings deactivates Motion Lighting.

# Adjusting the Picture for Easier Viewing (Picture Options)

#### MENU > Picture > Picture Options (ry Now

Select Picture > Picture Options to make additional adjustments for a better viewing experience.

When the TV is connected to a computer via an HDMI-DVI cable, only Color Tone can be adjusted.

Choose a Picture Mode and then adjust the settings.

Color Tone Try Now

Adjusts the color tone. The setting is applied on an individual **Picture Mode** basis. When you select a new **Picture Mode**, the TV applies the Color Tone you selected for that mode automatically.

If the Picture Mode is set to Dynamic, you will only be able to choose Cool or Standard.

Digital Clean View (ry Now

Reduces static and ghosting caused by a weak signal. Selecting Auto Visualization displays the signal strength on the screen. Green indicates the best possible signal.

This function is only available for analog channels.

MPEG Noise Filter (Try Now)

Reduces MPEG noise and improves video quality.

HDMI Black Level (Try Now

Some external devices connected to the TV via an HDMI cable can have issues such as low black level, low contrast, and dull colors. Use HDMI Black Level to adjust the black level to compensate.

HDMI Black Level is only available when you are viewing content from an external device connected to the TV via an HDMI connection.

#### Film Mode (Try Now

#### Optimizes the picture quality for movies. Select this mode for watching movies.

This feature is only available when you are watching a TV broadcast or when the input signal is AV, Component (480i, 1080i), or HDMI (1080i).

#### Auto Motion Plus (ry Now

Removes blurring and judder from scenes with rapid movement. If you select **Custom**, you can configure Blur Reduction and Judder Reduction manually and set **LED Clear Motion** on for a sharper LED image.

- If you have Auto Motion Plus on, and then bring up the INFO screen, the INFO screen displays the resolution and frequency of the incoming video signal (60Hz). This frequency is not the same as the frequency of the picture the TV is displaying when Auto Motion Plus is on.
- If LED Clear Motion is On at 60Hz video signal, the screen may flicker.

#### • Smart LED

This controls the brightness of individual areas on screen to maximize contrast automatically. This function is not supported depending on the region or model.

#### Cinema Black (ry Now

In Movie mode, this feature dims the upper and lower zones of the video image to provide a more immersive viewing experience.

# Viewing in 3D

#### MENU > Picture > 3D (Try Now)

The 3D option lets you view 3D media content and broadcasts. You will need to wear Samsung 3D Active Glasses to play 3D content. IR-type Samsung 3D Active Glasses and third-party 3D glasses are not supported.

- Carefully read the health and safety information concerning 3D viewing before viewing 3D content. Refer to the "3D Precautions" section for more information.
- Whether 3D video is displayed in true HD is usually determined by the quality and format of the video.

# **Starting 3D**

- 1. Press the 3D button on your remote control or select the 3D On-Screen Remote.
- 2. Play 3D content.
- 3. Put on the Samsung 3D glasses, and then turn the glasses on. 3D viewing is enabled.

The ideal viewing distance is three times the height of the screen or more. 3D images may not appear if you do not adhere to the recommended viewing angle or distance.

The 3D feature may not work properly if there is another 3D product or an electronic device running nearby. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.

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 stop.

There are several restrictions when using 3D TV:

- Launching Smart Hub automatically disables 3D mode.
- PIP cannot be used.
- Certain Picture options are disabled.

# Changing the 3D Mode

#### MENU > Picture > 3D > 3D Mode (ry Now

- Press the 3D button on your remote to start the 3D function, and then select 3D Mode under Picture > 3D.
- 2. Choose from the 3D modes that appear on the screen. The supported 3D Modes may vary depending on the 3D content.
  - **3D Mode** is automatically configured for most 3D content.

# The following 3D Modes are available. However, mode availability may vary depending on the 3D content's format.

- The supported resolutions vary for each mode. Refer to the "Supported Resolutions for 3D Modes" section for more information.
- 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.

• 🚺 (Vertical Line)

Switches between left and right images one vertical line at a time.

• 🚺 (Pixel)

Switches between left and right images one pixel at a time.

• 🚹 (Frame)

Switches between left and right images one frame at a time.

#### When the TV is connected to a computer:

- The (Horizontal Line), (Vertical Line), and (Pixel) settings can only be selected when the computer's resolution is set to 1920x1800, or the computer is connected to the TV via an HDMI-DVI cable.
- The (Frame) setting can only be selected when the computer's resolution is set to 1920x1080 and the frequency to 60Hz.

# Adjusting the 3D Effect

#### MENU > Picture > 3D

Configure the viewpoint, depth, and other 3D settings for a custom viewing experience.

- All 3D effects with the exception of **3D Auto View** can only be used while watching 3D content.
- Adjusting the 3D Viewpoint Try Now

Select Picture > 3D > 3D Perspective. Use the adjustment bar shown on the screen to adjust the viewpoint.

Adjusting the 3D Depth (Try Now)

Select Picture > 3D > Depth. Use the adjustment bar shown on the screen to adjust the depth.

This option cannot be used if 3D mode is set to <sup>1</sup> (L/R) or <sup>1</sup> (T/B).

Reversing the Left/Right 3D Images (Try Now)

Select Picture > 3D > L/R Change. Use to reverse the left and right images.

Displaying 3D Content in 2D (Try Now)

Select Picture > 3D > 3D  $\rightarrow$  2D. Use to enable 2D viewing of 3D content.

🖉 🛛 This function is not available if 3D mode is set to 🔛 (Normal) or 🍱 (Off).

#### • Automatically Turning on 3D if 3d Content is Detected

Select Picture > 3D > 3D Auto View. Use 3D Auto View to set the TV to activate 3D mode automatically when 3D content or a 3D broadcast is detected.

If **3D Auto View** is set to **Message Notice**, a window confirming 3D activation will be displayed. 3D is activated once confirmed.

3D is not displayed while certain applications are running. To watch the TV in 3D mode, exit the application.

# **Picture Support Functions**

# **PIP Broadcast Viewing**

#### MENU > Picture > PIP (Try Now)

Watch video from an external device such as a Blu-ray player on the main screen while viewing a TV broadcast in a picture-in-picture window.

Select **Picture** > **PIP** to display the PIP settings window. The PIP settings window contains the following options:

• PIP

Activates/deactivates PIP.

Antenna

Choose Air or Cable as the input source for the PIP sub-picture window.

• 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.

#### Choose a broadcast.

- PIP cannot be used while Smart Hub or 3D is active.
- Iurning off the TV automatically disables PIP.
- Playing a game or using the karaoke feature on the main screen can result in a lower PIP picture quality.
- For PIP to work, the main screen's source must be Component or HDMI and the input resolution must be less than FHD (Full HD). The PIP sub-screen supports digital channels only.

# **Changing the Picture Size and Position**

#### Choosing the Right Screen Size (Try Now

#### MENU > Picture > Picture Size > Picture Size

Most TV programs and videos are displayed in full screen, but some programs and videos are displayed in sizes that are larger or smaller. You can change the screen size for such programs and videos so that the picture fits the screen better.

- Supported screen sizes vary depending on the input signal. Refer to the "Picture Sizes and Input Signals" section for more information about supported screen sizes.
- The **Picture Size** option is not available with images in the 3840 x 2160p resolution because the supported screen size is fixed.
- 16:9

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

• Zoom1

Magnify 16:9 pictures vertically. A magnified picture can be moved up and down.

• Zoom2

Magnify Zoom1 picture even more. 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%.

#### Adjusting the Screen Position (Try Now

#### MENU > Picture > Picture Size > Position

#### Adjusts the screen position.

- This option is only available with Size set to Zoom1, Zoom2, Wide Fit, or Screen Fit. When the TV is tuned to a digital channel, the screen position cannot be adjusted if the Picture Size is set to Screen Fit.
- The **Picture Size** option is not available with images in the 3840 x 2160p resolution because the supported screen size is fixed.
- 1. To adjust the screen's position, select **Picture > Picture Size > Position**. A popup window appears.
- 2. Select Position again from the popup window.
- Press the ∧, ∨, < or > button to move the screen. When done, select Position and then Close. Select Reset to reset the screen position.

# Listening to Audio Only with the Screen Turned Off (Picture Off)

#### MENU > Picture > Picture Off (ry Now

Turns off the screen and plays audio through the speakers only. To turn the screen back on, press any button other than the power and volume buttons.

### **Resetting the Picture Mode Settings**

#### MENU > Picture > Reset Picture (Try Now

Use this option to reset the current **Picture Mode** to its factory settings. This does not affect the settings of other Picture Modes.

# **Changing the Sound Mode and Using Sound Effects**

# **Choosing the Right Sound Mode for the Environment**

#### MENU > Sound > Sound Mode (Try Now)

Sound modes apply preset adjustments to the sound output, optimized for different viewing and listening circumstances.

- The sound modes cannot be used when you are listening to audio through external speakers.
- 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 mode increases the overall intensity of high-frequency sounds for a better listening experience. It is designed for hearing-impaired listeners.

# **Using Sound Effects**

#### MENU > Sound > Sound Effect (ry Now

Use sound effects to alter how the TV projects sound.

- Sound effects can only be used if the Sound Mode is set to Standard.
- In the sound effects cannot be used when you are listening to audio through external speakers.

Choose a **Sound Effect** and then adjust the settings.

Virtual Surround (ry Now)

Produces sound that will make you feel like you are sitting in a movie theater or concert hall.

Dialog Clarity Try Now

Increases voice intensity to make dialog clearer.

Equalizer Try Now

Lets you adjust the speaker balance and make bandwidth adjustments. Select **Reset** to reset the settings.

# **Customizing Sound (Sound Customizer)**

#### MENU > Sound > Sound Customizer (Try Now

**Sound Customizer** lets you calibrate the TV for optimal sound quality based on your hearing capabilities and the ambient conditions.

# **Customizing Sound**

MENU > Sound > Sound Customizer > Add Custom Sound (ry Now

- 1. Select Add Custom Sound.
- 2. On the Add Custom Sound screen, read the instructions, and then select Start.
- 3. Select Preview, listen to the Preview tone, and then select Next.
- 4. A 6-step test will start. During each stage, the TV will sound a test tone at a different frequency. The tone will begin softly and increase in volume. Select Yes when you can hear the test tone. If you want to listen to it again, select No. Once the test is complete, a screen appears that lets you compare the original sound to the calibrated sound.
- 5. Select **Next**. The on-screen keyboard appears with a default profile name. Enter a name for the calibrated sound profile or accept the default name, and then select **Done**.
- 6. Select OK on the next screen. The Sound Customizer screen reappears.

You can create additional profiles by selecting Add Custom Sound on the Sound Customizer screen, and then following the instructions above from Step 2.

# Using a Custom Sound Profile

#### MENU > Sound > Sound Customizer > Custom Sound Profile (ry Now

If there are multiple Custom Sounds, simply choose the one you want to use.

- 1. Select Sound > Sound Customizer > Custom Sound Profile.
- 2. Select a Custom Sound Profile from the list.

# **Renaming and Deleting Custom Sound Profiles**

#### MENU > Sound > Sound Customizer > Manage Custom Sound (ry Now

Rename or delete custom sound profiles.

- To use Manage Custom Sound, you must have a Custom Sound Profile in the Custom Sound Profile list.
- 1. Select Sound > Sound Customizer > Custom Sound Profile.
- 2. Choose a Custom Sound Profile you want to rename or delete.
- 3. Select Sound > Sound Customizer > Manage Custom Sound. This brings up the Manage Custom Sound window.
- Select a Custom Sound Profile you want to rename or delete, and then select Rename or Delete. Selecting Rename brings up the on-screen keyboard. Use the keyboard to change the name. Delete deletes the selected Custom Sound Profile.

# Modifying a Custom Sound

#### MENU > Sound > Sound Customizer > Edit Custom Sound (ry Now

Modify the sound settings of a Custom Sound profile.

- 1. Select Sound > Sound Customizer > Edit Custom Sound, and then select the Custom Sound you want to edit from the popup window.
- 2. Select Preview to listen to the preview test tone, and then select Next.
- 3. A 6-step test will start. During each stage, select Yes when you can hear the test tone. If you want to listen to it again, select No. Once the test is complete, you can compare the original to the calibrated sound.
- 4. Select Next, and then enter a name for the calibrated sound profile.
- 5. When finished, select Done.

# **Sound Support Functions**

# **Selecting Speakers**

#### MENU > Sound > Speaker Settings > TV Sound Output (ry Now

TV Sound Output lets you choose which speakers the TV uses for audio output. Select Sound > Speaker Settings > TV Sound Output and then select the speakers from the list. To listen to audio through the TV's speakers and the speakers of a connected AV receiver or home theater simultaneously, select TV Speaker. If this causes an echo effect, choose any speaker option other than TV Speaker to mute the TV speakers, or turn off the receiver or home theater.

- Using external speakers alone disables the volume button and the mute function. In addition, certain **Sound** options are also disabled.
- TV Speaker

Listen to the TV's audio through the TV's internal speakers.

• Audio Out

Listen to the TV's audio though headphones or through the speakers of a device connected to the TV via a digital optical cable.

• Receiver

Listen to the TV's audio through the speakers of a home theater or receiver connected to the TV via  $\mathsf{HDMI}$ .

• TV Sound Connect

Listen to the TV's audio through the speakers of a Bluetooth device connected to the TV.

# Designating the TV's Installation Type

#### MENU > Sound > Speaker Settings > TV Installation Type

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

# Listening to TV Sound through Samsung Bluetooth Audio

#### MENU > Sound > Speaker Settings > SoundShare Settings

Connect the TV to a Samsung audio device for a richer, clearer sound.

- Inis option is only available for Samsung audio devices that support SoundShare or TV SoundConnect.
- Nou can't use Bluetooth headphones and SoundShare features simultaneously.

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

When listening to TV audio through a Samsung audio device, certain types of content may produce videoto-audio synching issues.

#### • Samsung Audio Device List

Displays a list of paired Samsung audio devices. Select a device to display its menu options. You can activate/deactivate the audio device or remove it from the list.

#### Add New Device

Lets you add new devices to the list of paired devices. The connection signals from new devices are ignored if Add New Device is set to Off.

# **Enabling Digital Audio Output**

#### MENU > Sound > Additional Settings (ry 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.

Audio Format Try Now

Selects the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) formats may vary depending on the input source.

Audio Delay (ry Now

This setting helps correct timing mismatches between the audio and video tracks when you are 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.

• HD Audio

Listen to the audio from the TV in HD quality.

- 🖉 🛛 Standard audio signals are sampled at 48 kHz while HD audio signals are sampled at 96 kHz.
- Some S/PDIF receivers may not be compatible. For such incompatible receivers, deactivate HD Audio mode and use normal audio mode instead.
- The HD audio signals available on the TV are not available on external audio players connected via HDMI, Bluetooth, or Wi-Fi networks.

#### Dolby Digital Comp

Set Dolby Digital compression mode.

#### Auto Volume Try Now

When you change channels, video sources, or content, **Auto Volume** automatically adjusts the TV's volume level so that the volume level remains the same for all sources. For example, if you switch from a streaming video application to a Blu-ray player or a favorite TV channel, **Auto Volume** can modify the volume up to 12db to equalize the sound.

The Auto Volume function has two settings: Normal and Night. Normal applies a normal level of volume adjustment. Night applies a slightly lower volume level and is ideal for late-night TV viewing. If you want to use the volume control of a connected source device to control the sound, deactivate the Auto Volume function. When you use the Auto Volume function with a source device, the device's volume control may not function properly.

# Listening to 3D Audio in 3D Mode

#### MENU > Sound > 3D Audio (ry Now

3D audio technology provides immersive sound that matches the pop-up effect of 3D video by using perspective in the audio depth control.

This function is only available in 3D mode.

# **Resetting All Sound Settings**

#### MENU > Sound > Reset Sound Try Now

Use to reset all sound settings to the factory defaults.

# Setting the Time and Using the Timer

# Setting the Current Time

#### MENU > System > Time > Clock (ry Now

Set the clock manually or automatically.

To view the time after the clock is set:

- Samsung Smart Control: Select the INFO button on the On-Screen Remote. (KEYPAD > INFO)
- Standard Remote: Press the Info button.
- The clock must be reset every time the power is disconnected.

#### Setting the Clock using Digital Broadcast Info

#### MENU > System > Time > Clock > Clock Mode Try Now

Set Clock Mode to Auto. The TV automatically downloads the correct time from a digital channel. To enable this option, the TV's Antenna jack must be connected to either an antenna or a cable output and must be receiving digital broadcasts. The accuracy of the time information received may vary depending on the channel and signal. If your TV is connected to a set-top-box or satellite box using HDMI or Component connections, you must set the time manually.

#### If the Clock is Wrong in Auto Mode ...

#### MENU > System > Time > Clock > Time Offset (ry Now

If the time set automatically is incorrect, you can offset the clock in 1-hour increments by as much as -/+ 12 hours. Select System > Time > Clock > Time Offset, and then offset the clock to the correct time.

- Time Offset adjusts the time through a network connection and is only available if the Clock Mode is set to Auto and the TV is connected to the Internet though a local area network.
- Time Offset adjusts the time if the TV fails to receive time information through normal digital broadcast signals.

#### Setting the Clock Manually

#### MENU > System > Time > Clock > Clock Set (ry Now)

To enter the time and date manually, follow these steps.

- 1. Set Clock Mode to Manual, and then select Clock Set.
- 2. Select Date. The date entry pop-up appears.
- 3. Use the ∧ and ∨ buttons to change the month. When done, move to the date field and then the year field and set them in the same fashion. When done, press the **RETURN** button on your remote.
- 4. Select the Time field. Use the  $\land$  and  $\checkmark$  buttons to set the hour.
- 5. When done, move to the minutes field and then the am/pm field and set them in the same fashion. When done, press the **RETURN** button on your remote.

# Using the Timers

#### Using the Sleep Timer

#### MENU > System > Time > Sleep Timer (ry Now

This function automatically shuts off the TV after a preconfigured period of time. Select System > Time > Sleep Timer. You can set the timer up to 180 minutes in 30-minute increments.

#### Turning On the TV using On Timer

#### MENU > System > Time > On Timer (Try Now)

Set the **On Timer** so that the TV turns on automatically at a chosen time. You can set up three separate **On Timer** configurations concurrently: **On Timer 1**, **On Timer 2**, and **On Timer 3**. The On Timer is only available if the **Clock** has been set.

• Setup

Select Off, Everyday, Mon~Fri, Sat~Sun, or Manual. If you select Manual, you can select the days you want the On Timer to turn on the TV by highlighting each day, and selecting it.

• Time

Set the time that the TV turns on automatically. See Manual under Setting the Time for time setting instructions.

• Volume

Specify the volume the TV will set itself to when it turns on.

Source

Select a signal source from the list. This is the source the TV will access when it turns on. If you want to use a USB device, that USB device must be connected to the TV before you start the On Timer set up. To play back media from an HDMI or Component source such as a DVD player, Bluray player, or set-top-box, you must leave the device on. It must be on and playing when the TV turns on.

Antenna

If you have set the Source to TV, select a broadcast signal source, Air or Cable.

• Channel

If you have set the Source to TV, select a channel.

Music / Photo

If you have set the **Source** to **USB**, specify a USB device folder containing music files in the music field and/or a folder containing photos in the photo field. If you select a folder that contains music files and a folder that contains photo files, the TV plays the music files and displays the photos at the same time.

To select (for example) a music folder, follow these steps:

- 1. Select the music field. The music screen appears.
- 2. If you have no folders in the USB drive and all your music files are in the root directory, highlight, and then select the Select button. The USB drive is selected and the On Timer screen reappears displaying the name of the USB drive in the music field.
- *3.* If you have folders with music on the USB drive, press the touch pad on the Samsung Smart Control or the 🖃 button on the standard remote. The TV displays all the folders on the drive.
- 4. Scroll the list of folders until the folder you want appears. Move the highlight to the Select button to the right of the folder. Press the touch pad. On a standard remote, press and hold the button. The On Timer screen reappears displaying the folder name in the music field.

🖉 If the folder you choose has sub-folders, you can select a sub-folder in the same fashion.

- 5. If you want, select a photo folder in the same way. Start by selecting the photo field.
- This feature will not function properly if the selected USB device does not contain media files or a folder has not been specified.
- The slideshow 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. The **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.

#### Turning Off the TV Using the Off Timer

#### MENU > System > Time > Off Timer (ry Now

Set the **Off Timer** to turn the TV off automatically at a specific time. You can set up three separate Off Timer configurations concurrently: **Off Timer 1**, **Off Timer 2**, and **Off Timer 3**. The Off Timer is available only if the **Clock** has been set.

Setup

Select Off, Everyday, Mon~Fri, Sat~Sun, or Manual. If you select Manual, you can select the days you want the Off Timer to turn off the TV by highlighting each day, and then selecting it.

• Time

Set the time that the TV turns off automatically.

# Using the Screen Burn Protection and Energy Saving Features

### **Preventing Screen Burn**

#### MENU > System > Auto Protection Time Try Now

Still images can leave burned-in after-images on the screen if left on the screen for a long period of time. Use Screen Burn Protection to protect the screen. Select System > Auto Protection Time and then choose a time setting from the list. If a still image is shown on the screen for longer than the time you selected, the TV will automatically activate the Screen Burn Protection function to prevent burnt-in after-images.

### **Using Energy Saving Features**

#### MENU > System > Eco Solution (ry Now)

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

Energy Saving (Try Now)

Select a brightness setting from the list to reduce the TV's power consumption.

Eco Sensor (Try Now)

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 the Min. Backlight or Min Cell Light (in applicable models). Changing the Backlight or Min Cell Light setting (in applicable models) while Eco Sensor is running automatically disables Eco Sensor.

No Signal Power Off (Try Now

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.

#### Auto Power Off (ry Now

If the TV remains on for four hours without any user input, the TV will automatically turn off to prevent overheating.

# Using Anynet+ (HDMI-CEC)

Use Anynet+ (HDMI-CEC) to control all external devices that support HDMI-CEC using just the TV's remote control. Note that Anynet+ (HDMI-CEC) only works with the TV's remote control and not with the panel keys.

- You can configure the TV's universal remote function to control using the TV's remote control third-party cable boxes, Blu-ray players, and home theaters that do not support HDMI-CEC. Refer to the "Controlling External Devices with the TV Remote - Using the Universal Remote" section for more information.
- Anynet+ cannot be used to control external devices that do not support HDMI-CEC.
- 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. If this occurs, select the Anynet+ device again.
- Anynet+ (HDMI-CEC) only works with external devices that support HDMI-CEC and only when those devices are either in standby mode or turned on.
- Anynet+ (HDMI-CEC) can control up to 12 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.
- 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.
- A home theater system that has been connected to the TV using an HDMI cable and an optical cable supports 2-channel audio only. 5.1-channel audio is, however, available for digital broadcasts with 5.1-channel audio.

# Setting Up Anynet+ (HDMI-CEC)

#### MENU > System > Anynet+ (HDMI-CEC) (Try Now

Anynet+ (HDMI-CEC) (Try Now

Enables/disables Anynet+ (HDMI-CEC). Set to Off to disable all Anynet+ related features. Set to On to enable all Anynet+ related features.

Auto Turn Off (ry Now

When set to Yes, turns off Anynet + compatible external devices when the TV is turned off.

Some Anynet + compatible devices do not support this feature.

Device search (Try Now)

Automatically search for and identify Anynet+ (HDMI-CEC) compatible external devices that are connected to the TV.

# Using Anynet+ (HDMI-CEC)

#### Selecting an External Device

- 1. On the Samsung Smart Control, press the KEYPAD button, and then select TOOLS on the On-Screen Remote. On a standard remote, press the TOOLS button. The Tools list appears.
- 2. Select Anynet+ (HDMI-CEC) from the list. The Select Device screen appears.
- *3.* 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 once started.

#### Accessing the External Device's Menu

Once the TV has switched over to the selected device, you can access the device's menu using the TV's remote control.

- 1. On the Samsung Smart Control, press the KEYPAD button, and then select TOOLS on the On-Screen Remote. On a standard remote, press the TOOLS button. The Tools list appears.
- 2. Select Anynet+ (HDMI-CEC) from the list. The following list appears.

The menu options available in Tools may differ depending on the external device.

• Anynet+ (HDMI-CEC)

Displays a list of HDMI-CEC-compliant devices connected to the TV. Select View TV to exit Anynet+ (HDMI-CEC), and start watching TV. To switch to the screen of an external device, simply select that respective device.

• (Connected Device) Menu

Display the menu of the connected device. If the target device is a DVD player, the DVD player's menu is shown.

• (Connected Device) Tools

Displays a list of frequently-used functions available for the device. If the target device is a DVD player, the DVD player's playback menu is shown.

Some external devices may not support this option.

• (Connected Device) Title Menu

Displays the title menu of the disc in the connected device. For example, if the target device is a Blu-ray player, the title menu of the disc in the player is shown.

Some external devices may not support this option.

# Using the e-Manual

# Launching the e-Manual

#### MENU > Support > e-Manual

#### The embedded e-manual contains information about your TV's key features.

- Alternatively, you can download a copy of the e-manual from Samsung's website, and read it on your computer or print it out.
- Words in yellow (e.g., **Picture Mode**) indicate a menu item and bold words in white (e.g., **Smart Hub**) indicate remote control buttons.
- Arrows are used to indicate the menu path. (Example: MENU > Picture > Picture Mode)
- On the Samsung Smart Control, press the KEYPAD button, and then select e-Manual on the On-Screen Remote. On a standard remote, press the E-MANUAL button. You can also select Support > e-Manual in the TV's menu.
- 2. Select a category from the left side of the screen. Once a selection has been made, the contents of the selected category appears on the right side of the screen.
- 3. Select an item from the list. This opens the e-manual on the corresponding page.

#### If a description doesn't fit on a single screen...

# **Additional e-Manual Features**

#### Loading Pages using Keywords

Select **Search** to bring up the search screen. Enter a search term, and then select **Done**. Select an item from the search results to load the corresponding page.

#### Loading Pages from the Index Page

Select Index to bring up the index screen. Select a topic from the list to navigate to the relevant page.

#### Using History to Load Previously Read Pages

Select **Opened page**. A list of previously read pages is shown. Select a page. The e-Manual jumps to the selected page.

### Accessing the Menu from the e-Manual

Select (Try Now) from the right side of a feature-description page to access the corresponding menu item and try out the feature right away. If you want to read the e-Manual entry on a specific screen menu feature:

- On the Samsung Smart Control, press the KEYPAD button, and then select e-Manual on the On-Screen Remote. To load the corresponding e-Manual page.
- On a standard remote, press the e-Manual button.
- The e-Manual cannot be accessed from some menu screens.

### Loading Reference Pages

Select 🖉 (Link) from the right side of a feature-description page to access the corresponding reference page.

# Updating the e-Manual to the Latest Version

You can update the e-Manual in the same way you update apps.

- 1. Press the 🗘 button, and then highlight the e-Manual item in the SAMSUNG APPS screen.
- 2. On the Samsung Smart Control, press and hold the touch pad. On a standard remote, press and hold the 🕞 button. The Tools menu appears.
- 3. Select Update Apps from the Tools menu. A popup window appears.
- 4. Select e-Manual in the popup window, and then select Update.

#### **Configuring Auto Update**

#### MENU > Smart Hub > Apps Settings

To update the e-Manual automatically, navigate to the Smart Hub > Apps Settings menu, and then set the Auto Update option to On. The e-manual is updated automatically when an update becomes available.

# Updating the TV's Software

#### MENU > Support > Software Update (ry Now

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

The TV is set to update software automatically via the internet by default. If you don't want to update it automatically, set Auto Update (Support > Software Update > Auto Update) to Off.

▲ DO NOT turn off the TV's power until the update is complete. The TV will turn off and on automatically after completing the software update. All video and audio settings return to the default settings after a software update.

# Update now

#### MENU > Support > Software Update > Update now (ry Now

Update now lets you update your TV's software in three ways:

- Online, by downloading the update from the Internet directly to your TV.
- Manually, using a USB flash drive.
- Automatically (Auto Update), while the TV is in Standby Mode.

Each method is explained below.

### Online

To update your TV using the Online method, follow these steps:

- 1. Make sure that your TV is connected to your local network and the Internet. The connection can be wired or wireless.
- 2. All video and audio settings return to their default settings after a software update. We recommend you record your current settings now so you can easily re-establish your settings when the update is complete.
- Press the MENU button, and then select Support > Software Update > Update now. The Update now pop-up appears.
- 4. The TV searches on line for the latest software version for your TV.
- If it does not find an update, the "No new updates" pop-up appears. Press the EXIT button to exit.
- 6. If the TV finds a new version, the Update Request pop-up appears.
- 7. Select OK. The TV updates the software, turns off, and then turns on automatically.
  - Do not turn off the TV during the Software Update. It may cause the TV to malfunction.
# Manually, Using a USB Flash Drive

To update your TV using the Manual method, follow these steps:

- 1. All video and audio settings return to their default settings after a software update. We recommend you record your current settings so you can easily re-establish these settings when the update is complete.
- 2. On a computer, visit www.samsung.com.
- 3. Select GET SUPPORT > Get Downloads.
- 4. Enter the product's model number into the search field. As you enter the model number, a drop down will display products that match the model number.
- 5. Click your product's model number in the drop down list.
- 6. On the page that appears, scroll down to and then click Downloads.
- 7. Click Firmware in the center of the page.
- 8. Click the ZIP button in the File column.
- 9. Click Send in the first pop-up that appears.
- 10. Click Save in the second pop-up to download, and then save the firmware file to your computer.
- 11. Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.
- 12. Copy the folder to a USB flash drive.
- 13. Insert the USB flash drive into a USB port of the TV.
- 14. In the TV's menu, go to Support > Software Update > Update now. The TV searches for the software on the USB drive. When it finds the software, the Update Request pop-up appears.
- 15. Select OK. The TV updates the software, turns off, and then turns back on automatically.
  - 🖉 Do not turn off the TV during the Software Update. It may cause the TV to malfunction.

# **Enabling Automatic Software Updates**

#### MENU > Support > Software Update > Auto Update (ry Now

If the TV is connected to the Internet, it can be updated via **Auto Update** while watching the TV. When the Background upgrade completed, the update will be applied the next time the TV is used.

This option requires an Internet connection.

If you agree to the Smart Hub terms and conditions, Auto Update will be set to On automatically. If you don't want the TV's software updated automatically, set Auto Update (Support > Software Update > Auto Update) to Off.

# Protecting the TV from Hacking and malicious code

#### MENU > System > Smart Security

When the TV is connected to the Internet, it is vulnerable to hacks and malicious code. Smart Security protects the TV and storage media connected to the TV from such threats.

Navigate to System > Smart Security and set Smart Security to On.

## Checking the TV and Connected Storage Media

#### MENU > System > Smart Security > Scan

Navigate to System > Smart Security and select Scan. This scans the TV and connected media for the presence of malicious code. If no malicious code is detected, a notification window appears on the screen.

#### If malicious code is detected...

If malicious code is found, the results of the scan will appear on the screen. This result window displays all malicious code found, and provides options to either quarantine the code or allow it to function.

- 1. Select all the malicious code you want to quarantine or allow.
- Select Block or Allow. This moves the selected malicious code to the Isolated List or Allowed List.
  - The **Isolated List** displays all quarantined and blocked malicious code. You can also relocate codes from this list to the Allowed List.
  - The Allowed List displays all allowed malicious code. You can also relocate codes from this list to the Isolated List.

## Automatically Scanning when the TV is Powered On

#### MENU > System > Smart Security > Settings > Auto Scan

Navigate to **System** > **Smart Security** > **Settings** and then set **Auto Scan** to **On**. This automatically scans the TV and connected storage media when the TV is powered on.

## Automatically Adding malicious code to the Blocked List

#### MENU > System > Smart Security > Settings > Move to Isolated List automatically

Navigate to System > Smart Security > Settings and set Move to Isolated List automatically to On. Malicious code found during the scanning process is automatically added to the Blocked List.

# **Using Other Functions**

## Setting Up a Password

#### MENU > System > Change PIN (Try Now)

Set a PIN (Personal Identification Number) to lock channels, reset the TV, and change the TV settings.

- 1. Select System > Change PIN. The PIN input window appears.
- 2. Enter a PIN. The default PIN is 0000.
- 3. Enter a new PIN and then enter it again to confirm it. The PIN change is complete.
- If you forget your PIN, you can reset it using your remote control. With the TV turned on, press the following buttons on the remote to reset the PIN to 0000: MUTE  $\rightarrow$  +  $\rightarrow$  RETURN  $\rightarrow$   $\rightarrow$  RETURN  $\rightarrow$  +  $\rightarrow$  RETURN. "+" is the Volume Up button. "-" is the Volume Down button.

## Changing the Menu Language

#### MENU > System > Menu Language (ry Now

Use this option to change the menu language. Select System > Menu Language, and then choose a language from the list.

## **Checking Notifications**

#### MENU > System > Notifications (ry Now

Select **Notifications** from the **System** menu to view the list of event messages generated by the TV. **Notifications** appear on the screen when events such as an update release for an app or Samsung Account login/logout occurs.

- Select Delete All to delete all notifications.
- Select Service Notice to check the SMART TV service notifications in a web browser.

# **Enabling Voice Guides for the Visually Impaired**

#### MENU > System > Accessibility > Voice Guide

This function is only available in the U.S.A. and Canada.

Voice guides for the menu options are available to aid the visually impaired. Enabling this option provides voice guides for focus movement, channel change, volume change, and various other TV functions.

#### Navigate to System > Accessibility > Voice Guide and set Voice Guide to On.

- Press and hold the 🛱 button on the Samsung Smart Control to turn on or off Voice Guide. Availability depends on the specific area.
- The Voice Guide is provided in the language that is specified on the Menu Language screen. (System > Menu Language). However, some languages are not supported by Voice Guide even though they are listed in the Menu Language screen.
- To change the gender of the Voice Guide's voice, navigate to System > Voice Control > TV Voice, and then change the Voice Gender option.
- If Voice Guide is set to On, motion sensor of Samsung Smart Control does not work. To use the motion sensitivity sensor, set Voice Guide to Off.

#### The Voice Guide will give information for the following functions on the TV.

- Voice Guide is not available for some sub-function or function menus. When you access one of those subfunction or function menus, the TV will tell you that Voice Guide is not available.
- Changing Channels
- Changing TV Volume
- Program Info Window (INFO)
- Channel List
- Source
- Guide
- On TV
- Voice Control
- TV Menus

#### Changing the Volume, Speed, Pitch and Level of Voice Guide

Select System > Accessibility > Voice Guide. Using the following functions, you can configure the Voice Guide feature's volume, speed, pitch and level settings.

• Volume

Change the Voice Guide's volume level. The volume of the Voice Guide is determined by this Volume setting. You cannot control the Voice Guard's volume with the TV's volume control.

The Voice Guide volume may vary occasionally, depending on the TV volume setting.

• Speed

Change the Voice Guide's tempo.

• Pitch

Tune the pitch of the Voice Guide.

• Description Level

You can adjust the Voice Guide's expertise level to better suit the user's proficiency.

## Adjusting the Menu Transparency

#### MENU > System > Accessibility > Menu Transparency (ry Now

Navigate to System > Accessibility and adjust the opacity level and the menu's transparency.

When the **High Contrast** (System > Accessibility > High Contrast) setting is set to On, the menu display is automatically set to opaque and you cannot change the **Menu Transparency** settings.

## White Text on Black Background (High Contrast)

#### MENU > System > Accessibility > High Contrast

Navigate to System > Accessibility and set High Contrast to On. This option changes major service screens to white text on a black background or changes the transparent TV menus to opaque so that text can be read more easily.

Press and hold the G button on the Samsung Smart Control to turn on or off High Contrast.

## Expanding the Smart Hub's Focus Area

#### MENU > System > Accessibility > Enlarge Try Now

Navigate to System > Accessibility and set Enlarge to On. This zooms in the focused item when you use Smart Hub and makes the item larger.

## **Enabling/Disabling Sound Feedback**

#### MENU > System > General > Sound Feedback (ry Now

Sound Feedback provides audio cues as you navigate through menus and select menu options. Sound Feedback is on by default. You can set it to Low, Medium, High, or Off.

## Locking/Unlocking the Panel Keys

#### MENU > System > General > Panel Lock (ry Now

Use to lock and unlock the TV's front panel buttons (menu, channel, and volume) and the control stick on the back of the TV. Select System > General > Panel Lock and lock/unlock the keys.

## Showing/Hiding the Samsung Logo while Booting

#### MENU > System > General > Boot Logo (Try Now

Use to enable or disable the Samsung logo display that appears when the TV starts up.

### Enabling the TV to Boot Faster

#### MENU > System > General > Samsung Instant On

Set Fast Boot on to have the TV boot up faster.

# **Evolution Kit Backup**

#### MENU > System > Evolution Kit Backup

Upgrade your Samsung TV with the 2015 Evolution Kit for more benefits. However, this upgrade requires backing up and converting existing data in your TV and apps accordingly to ensure they remain on the upgraded device.

- 1. Connect a USB storage device to the TV.
- 2. In the System menu, select Evolution Kit Backup. The Evolution Kit Backup screen appears.
- 3. Select Start. Data in the TV will be backed up to the USB storage device.
  - Do not turn the TV off or unplug the power cable of the TV during this backup.
  - Do not disconnect the USB storage device during this backup.
- 4. When complete, select Done.

# Update Recorded Program

#### MENU > System > Update Recorded Programs

To watch a previously recorded program on Samsung TV with the 2015 Evolution kit, it is necessary to convert the recorded program saved on a USB Drive to the Samsung TV format with the 2015 Evolution kit.

- 1. Connect the recording USB device to the USB HDD 5V1A terminal.
- In the System menu, select Update Recorded Programs. The Update Recorded Programs screen appears.
- 3. Select Start. Start conversion so material is properly displayed on the TV.
- 4. When complete, select Done.

# **Enabling/Disabling the Front Indicators**

#### MENU > System > General > Light Effect (ry Now

Use to turn the indicators on the front of the TV on/off. Turning the Light Effect off reduces the TV's power consumption.

- The color of the TV's light may vary depending on the model.
- Availability depends on the model.

## **Enabling Game Mode**

#### 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<sup>™</sup> or Xbox<sup>™</sup>.

- Game Mode cannot be used for normal TV viewing.
- Connect the gaming console before enabling Game Mode. Otherwise, the picture quality may suffer.
- The screen may shake a little.
- Enabling Game Mode automatically sets the Picture Mode to Standard and the Sound Mode to Movie.
- Z To use a different external device, first disconnect the game console and disable Game Mode.

# Enjoying Rich Colors and Superior Picture Quality (BD Wise)

#### MENU > System > General > BD Wise (Try Now

Connecting a Samsung DVD player, Blu-ray player, or home theater system that supports BD Wise enables the richest colors and best possible picture quality. Enabling BD Wise automatically optimizes the TV's resolution.

It is feature is only available when the external device is connected via an HDMI cable.

# Registering the TV as a DivX-Certified Device (Watching For Pay DivX Movies)

#### MENU > System > DivX® Video On Demand Try Now

#### To watch DivX DRM protected movies on the TV, you must register the TV as a DivX certified device.

- DRM stands for Digital Rights Management and is a technical security mechanism to protect the copyright of the content provider.
- You can watch movies that you have recorded or free DivX movies without registration.
- Visit the DivX website (http://www.divx.com) and log into your user account before registering the TV as a DivX-certified device. If you do not have an account, please create one.
- Select System > DivX® Video On Demand. A window with a registration code appears on the screen.
- 2. Visit the DivX website on a computer, and then click [Register Your Device] under [Support] in the top menu.
- 3. Enter the registration code shown on the TV's screen in the [Enter your registration code] field.
- 4. Enter the TV's name in the [Name your device] field, and then click [NEXT].
- 5. Click [DOWNLOAD], and then save the [device\_name.divx] file.
- 6. Transfer the [device\_name.divx] file from the computer onto a USB device, and then plug the USB device into the TV.
- 7. Run the [device\_name.divx] file on the TV to register the TV as a DivX-certified device.

# **Restoring the TV to the Factory Settings**

#### MENU > Support > Self Diagnosis > Reset Try Now

This option restores all TV settings (excluding the Internet and network settings) to the factory defaults.

- 1. Select Support > Self Diagnosis > Reset. The Security PIN entry window appears on the screen.
- 2. Enter the Security PIN, 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 Setup, refer to the user manual that came with the TV.

# Using the TV as a Display Model (exclusively for retail stores)

#### MENU > Support > Use Mode (ry Now)

Select **Support** > **Use Mode** > **Store Demo**. This turns the TV into a display model for use in a retail environment.

For all other uses, select Home Use.

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.

# **Getting Support**

The TV has several built-in systems designed for user and TV system support.

## Support through Remote Management

#### 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. You 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. These features are only available when your TV is connected to the Internet.

#### **Getting Remote Support**

Samsung Remote Support service offers you one-on-one support with a Samsung Technician who can remotely.

- Diagnose your TV
- Adjust the TV settings for you
- Reset your TV to its factory settings.
- Install recommended firmware updates

#### How Does it Work?

Having a Samsung Tech service your TV remotely is easy.



Call the Samsung Contact Center and ask for remote support.



Open the menu on your TV and go to the Support section.



Select Remote Management, and then read and agree to the service agreements. When the PIN screen appears, provide the PIN number to the agent.



The agent accesses your TV.

# Finding the Information You Need for Service

#### MENU > Support > Contact Samsung (ry Now

Use this option to display the address of the Samsung website, the call center phone number, your TV's model number, your TV's software version, the Smart Hub info, and other information you may need to get service support from a Samsung call agent or the Samsung website.

# There is a problem with the picture

# **Testing the Picture**

#### MENU > Support > Self Diagnosis > Picture Test (ry Now

Before you review the list of problems and solutions below, use Picture Test to determine if the problem is caused by the TV. The Picture Test displays a high definition picture you can examine 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 an external device. Please check the connections. If the problem persists, check the signal strength or refer to the external device's user manual.

| The Problem                              | Try this!  |  |  |
|--|--|--|--|
| Flickering and<br>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 > Energy Saving) or Eco Sensor (System > Eco Solution > Eco Sensor).  |  |  |
| Component<br>Connections/Screen<br>Color | <ul> <li>If the color on your Samsung television screen is not correct or the black and white colors are off, run Picture Test (Support &gt; Self Diagnosis &gt; Picture Test).</li> <li>If the test results indicate that the problem is not caused by the TV, do the following:</li> <li>Confirm that the One Connect's video input connectors are connected to the correct external device video output connectors.</li> <li>Check the other connections as well. If the TV is connected to an external device via a component cable, confirm that the Pb, Pr, and Y jacks are plugged into their proper connectors.</li> </ul> |  |  |
| Screen Brightness                        | <ul> <li>If the colors on your Samsung TV are correct but just a little too dark or bright, try adjusting the following settings first.</li> <li>Go to the Picture menu and adjust the Backlight/Cell Light (available on different models) Contrast, Brightness, Sharpness, Color, and Tint (G/R) settings.</li> </ul>  |  |  |
| Ghosting, Blurring, or<br>Juddering      | If you notice ghosting or blurring on the screen, use the Auto Motion Plus option (Picture > Picture Options > Auto Motion Plus) to resolve the issue.   |  |  |
| Unwanted Powering<br>Off                 | If your Samsung TV appears to turn off by itself, try disabling some of the TV's energy efficiency features. See if Sleep Timer (System > Time > Sleep Timer) has been enabled. The Sleep Timer automatically turns the TV off after a specified period of time. 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 > Mo Signal Power Off) and disable them.   |  |  |

| The Problem  | Try this!  |  |  |
|--|--|--|--|
| Problems Powering On   | When the TV is turned on, the remote control receiver flashes 5 times before the screen turns on.<br>If you are having problems powering on your Samsung television, there are a number of things to check before calling the service department. Confirm that the TV's power cord is connected correctly at both ends and that the remote control is operating normally. Make sure that the antenna cable or cable TV cable is firmly connected. If you have a cable/satellite box confirm that it is plugged in and turned on.   |  |  |
| Unable to find a<br>Channel                                      | If your TV is not connected to a cable box or satellite box, run Setup (System > Setup) or Auto Program (Broadcasting > Auto Program).   |  |  |
| The TV image does<br>not look as good as it<br>did in the store. | <ul> <li>Store displays are all tuned to digital, HD (high definition) channels.</li> <li>If you have an analog cable/set top box, upgrade to a digital set top box. Use</li> <li>HDMI or Component cables to deliver HD (high definition) picture quality.</li> <li>Many HD channels are upscaled from SD (Standard Definition) content. Look for a channel that is broadcasting true HD content.</li> <li>Cable/Satellite Subscribers: Try HD channels from the channel lineup.</li> <li>Air/Cable Antenna Connection: Try HD channels after running the Auto Program function.</li> <li>Adjust the cable/satellite box's video output resolution to 1080i or 720p.</li> </ul> |  |  |
| The picture is distorted.  | The compression of video content may cause picture distortions, especially in fast<br>moving pictures from sports programs and action movies.<br>A weak or bad quality signal can cause picture distortions. This is not an issue<br>with the TV.<br>Mobile phones used close to the TV (within 3.2 ft) may cause noise in analog and<br>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<br>or the picture is not<br>bright enough.     | Go to the Picture menu and then adjust the Picture Mode, Brightness, Sharpness,<br>and Color settings.<br>See if Energy Saving (System > Eco Solution > Energy Saving) has been enabled.<br>Try resetting the picture. (Picture > Picture Reset)   |  |  |
| There is a dotted line<br>on the edge of the<br>screen.          | If the Picture Size has been set to Screen Fit, change the setting to 16:9.<br>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.  |  |  |

# I can't hear the sound clearly

# **Testing the Sound**

#### MENU > Support > Self Diagnosis > Sound Test (ry Now

Before you review the list of problems and solutions below, make sure that the **TV Sound Output** menu item is set to **TV Speaker**, and then listen to the speakers again. If the TV still does not play audio, run the **Sound Test**. The **Sound Test** uses a built-in melody to check for sound problems. If the TV does not play sound during the Sound Test, or the sound is distorted, there may be a problem with the TV. Contact Samsung's Call Center for assistance. If the TV plays the Sound Test melody without distortion, there may be a problem with an external device. Please check the connections. If the problem persists, refer to the external device's user manual.

| The Problem  | Try this!   |  |  |
|--|---|--|--|
| There is no sound or<br>the sound is too low at<br>maximum volume. | Check the volume control of the device (cable/satellite box, DVD, Blu-ray, etc.) connected to your TV.  |  |  |
| The picture is good but there is no sound.                         | Set Sound > Speaker Settings > TV Sound Output to TV Speaker.<br>If you are using an external device, check the device's audio output option. (For<br>example, you may need to change your cable box's audio option to HDMI if the<br>box connected to your TV is using an HDMI cable.)<br>To listen to the computer sound, connect the external speaker to the computer'<br>s audio output connector.<br>If your TV has a headphone jack, make sure there is nothing plugged into it.<br>Reboot the connected device by disconnecting and then reconnecting the<br>device's power cable. |  |  |
| The speakers are making an odd sound.                              | Make sure that the audio cable is connected to the correct audio output<br>connector on the external device.<br>For antenna or cable connections, check the signal information. A low signal<br>level may cause sound distortions.<br>Run Sound Test (Support > Self Diagnosis > Sound Test).   |  |  |

# I can't see 3D images clearly.

# **Testing 3D Picture Quality**

#### MENU > Support > Self Diagnosis > 3D Picture Test

🖉 To test 3D picture quality, you must be wearing 3D glasses and the glasses and the TV must be paired.

Before you review the list of problems and solutions below, use 3D Picture Test to determine if the problem is caused by the TV. The 3D Picture Test displays a high definition picture you can examine 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 an external device. Please check the connections. If the problem persists, check the signal strength or refer to the external device's user manual.

| The Problem                               | Try this!  |  |  |
|---|--|--|--|
| The 3D glasses are not working correctly. | Make sure the glasses are powered on.<br>The 3D feature may not work properly if there is another 3D product or an<br>electronic device running nearby.<br>If there is a problem, keep other electronic devices as far away as possible from<br>the 3D Active Glasses. |  |  |
| I can't see 3D images<br>clearly          | The ideal viewing distance is three times or more the height of the screen.<br>We also recommend watching 3D content with your eyes level with the screen.   |  |  |
| The batteries in the 3D glasses are flat. | Turn off the 3D glasses when they are not in use. If you leave the 3D glasses on, the battery lifespan is shortened.   |  |  |

# There is a problem with the broadcast.

| The Problem                                  | Try this!   |  |  |
|--|---|--|--|
| The TV is not receiving all channels.        | <ul> <li>If your TV is not connected to a cable box or satellite box:</li> <li>Confirm that the coaxial cable is securely connected to the TV.</li> <li>If you are using an antenna, verify it is positioned correctly and the all the connections are secure.</li> <li>Run Setup (System &gt; Setup) or Auto Program (Broadcasting &gt; Auto Program)</li> </ul> |  |  |
| There are no captions with digital channels. | Go to Caption (System > Accessibility > Caption) and change the Caption Mode.<br>Some channels may not have caption data.   |  |  |
| The picture is distorted.                    | The compression of the video content may cause picture distortions. This is especially true with fast moving pictures from sports programs and action movies.<br>A weak signal can cause picture distortions. This is not a problem with the TV.  |  |  |

# My computer won't connect.

| The Problem                                     | Try this!  |  |  |
|---|--|--|--|
| The "Mode Not<br>Supported" message<br>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.<br>If you are using a DVI to HDMI cable, a separate audio cable is required. |  |  |

# I can't connect to the Internet.

| The Problem                                       | Try this!   |  |  |
|---|---|--|--|
| The wireless network connection failed.           | Confirm your wireless modem/router is on and connected to the Internet.<br>Reset your wireless modem/router by turning it off, waiting for 15 seconds, and<br>then turning it on again.<br>Run Network Setup (MENU > Network > Network Settings). |  |  |
| The software update over the Internet has failed. | Check the network connection status (MENU > Network > Network Status).<br>If the TV is not connected to a network, connect to a network.<br>The upgrade stops if you already have the latest software version.                                    |  |  |

# The Schedule Recording/Timeshift function isn't working.

This function is not available in the U.S.A. and Canada.

| There is something wrong with the TV.   | Try this!   |  |
|---|---|--|
| The TV cannot recognize the<br>USB device or the Format<br>Device, Check Device, or<br>Device Performance Test<br>has failed. | Refer to the USB device's manual and see if data can be stored on it.<br>Check if the USB device is in a locked state.<br>Check if the USB device was formatted when it was connected to a computer.<br>Formatting a USB device after connecting it to the TV may result in a<br>formatting failure. If <b>Device Performance Test</b> or Format Device has failed,<br>there may be a problem with the USB device or its specifications. Try using a<br>different USB device. |  |
| There is a message saying<br>I need to format the USB<br>storage device.  | Check if the USB device is in a locked state.<br>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.<br>Check if the channel is a digital channel that can be recorded. Recording will<br>automatically stop if the signal becomes too weak. The Timeshift function<br>will not work if there isn't enough storage space on the USB device.  |  |
| I get a performance test<br>failure message and then<br>Schedule Recording and the<br>Timeshift operation stops<br>working.   | This problem can occur when using a low-performance USB storage device<br>that does not support recording. A USB hard drive with a speed of 5,400rpm<br>or above is recommended. A USB memory Stick is not supported.   |  |

# Anynet+ (HDMI-CEC) isn't working.

| The Problem   | Try this!   |  |  |
|---|---|--|--|
| Anynet+ does not<br>work.   | Confirm that the device is an Anynet+ device. The Anynet+ system supports<br>Anynet+ devices only.<br>Check if the power cord of the Anynet+ device is properly connected.<br>Check the cable connections of the Anynet+ device.<br>Go to System and see if Anynet+ (HDMI-CEC) has been set to On.<br>Check whether the TV remote control is in TV mode.<br>Check whether the remote control is Anynet+ compatible.<br>Anynet+ may not function when some other functions are active, including Channel<br>Search, Smart Hub, Start Up, etc.<br>If you have disconnected and then reconnected the HDMI cable, scan for devices<br>again or turn your TV off and on. |  |  |
| I want to start<br>Anynet+.   | <ul> <li>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.</li> <li>Once you have verified that Anynet + is on:</li> <li>On the Samsung Smart Control, press the KEYPAD button, and then select the TOOLS button on the On-Screen Remote, A list appears. Select Anynet+ (HDMI-CEC) from the list, and then a device.</li> <li>On a standard remote, press the TOOLS button. A list appears. Select Anynet+ (HDMI-CEC) from the list, and then a device.</li> </ul>  |  |  |
| I want to exit Anynet+.   | Select View TV from the Anynet+ menu.<br>Select a non-Anynet+ device from the Source list.  |  |  |
| The message<br>"Connecting to<br>Anynet+ device"<br>or "Disconnecting<br>from Anynet+ device"<br>appears on the screen. | You 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<br>won't play  | You cannot use the play function when Setup is in progress.   |  |  |
| The connected device is not displayed.  | Check whether the device supports Anynet+.<br>Check whether the HDMI cable is properly connected.<br>Go to System and see if Anynet+ (HDMI-CEC) has been set to On.<br>Scan for Anynet+ devices again.<br>Anynet+ devices must be connected to the TV using an HDMI cable. Make sure the<br>device is connected to your TV with an HDMI cable. Some HDMI cables may not<br>support Anynet+.<br>If the connection is terminated because there has been a power failure or the HDMI<br>cable has been disconnected, please scan for the device again.   |  |  |
| The TV audio is not<br>being played through<br>the receiver.  | Connect an optical cable to the TV and the receiver.<br>ARC enables the TV to output digital sound via the HDMI (ARC) port.<br>However, ARC is only available when the TV is connected to an audio receiver that<br>supports ARC.   |  |  |

# I am having trouble launching/using apps.

| The Problem   | Try this!  |  |
|---|--|--|
| I launched an app,<br>but it's in English.<br>How can I change the<br>language? | Languages supported by the app may be different from the user interface language.<br>The ability to change the language depends on the service provider. |  |
| My application is not working.  | Check with the service provider.<br>Refer to the help section on the application service provider's website.   |  |

# My file won't play.

| The Problem                 | Try this!   |  |
|-----------------------------|---|--|
| Some files can't be played. | This problem may occur with high-bitrate files. Most files can be played back, but you might experience problems with high-bitrate files. |  |

# I want to reset the TV.

| Reset                  | Path                                       | Description  |
|------------------------|--|--|
| Reset Settings         | MENU > Support > Self<br>Diagnosis > Reset | Reset Picture, Sound, Channel, Smart Hub, and all other settings, except for the network settings, default settings.   |
| Resetting Smart<br>Hub | MENU > Smart Hub ><br>Smart Hub Reset      | Resets all Smart Hub settings to their factory defaults and<br>deletes all information related to Samsung accounts, linked<br>service accounts, Smart Hub service agreements, and<br>Smart Hub applications. |

# **Other Issues**

| The Problem   | Try this!  |
|---|--|
| The TV is hot.  | Watching TV for an extended period of time causes the panel to generate heat.<br>The heat from the panel is dissipated through internal vents running along the<br>top of the TV. The bottom, however, may feel hot to the touch after extended<br>use. Children watching TV need constant adult supervision to prevent them from<br>touching the TV. This heat, however, is not a defect and does not affect the TV's<br>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.<br>Black bars will appear at the top and bottom of the screen when you watch movies that have aspect ratios different from your TV.<br>Adjust the picture size options on your external device or set the TV to full screen.  |
| The "Mode Not<br>Supported" message<br>appears.                           | The output resolution of the attached device is not supported by the TV. Check the TV's supported resolutions and adjust the external device's output resolution accordingly.  |
| The Captions item in the TV menu is grayed out.                           | You cannot select the Caption menu if you have selected a source connected to the TV via HDMI or Component. To view captions, turn on the external device's caption function.  |
| The TV smells of plastic.   | This smell is normal and will dissipate over time.   |
| The Signal Information<br>option under Self<br>Diagnosis isn't activated. | Verify that the current channel is a digital channel.<br>The Signal Information is only available for digital channels.  |
| The TV is tilted to the side.   | Remove the base stand from the TV and reassemble it.   |

| The Problem  | Try this!   |  |
|--|---|--|
| The Broadcasting option has been deactivated.                                    | Broadcasting is only available when the Source is set to TV.<br>The Broadcasting menu cannot be accessed while you watch TV using a cable<br>box or satellite receiver.   |  |
| The settings are lost<br>after 30 minutes or every<br>time the TV is turned off. | If the Use Mode is set to Store Demo, the TV's audio and video settings are automatically reset every 30 minutes.<br>Change the Use Mode (Support > Use Mode) to Home Use.  |  |
| There is an intermittent loss of audio or video.                                 | Check the cable connections and reconnect them.<br>Loss of audio or video can be caused by using overly rigid or thick cables.<br>Make sure the cables are flexible enough for long term use. If you are mounting<br>the TV to a wall, we recommend using cables with 90-degree connectors.   |  |
| 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.   | <b>PIP</b> functionality is only available when you are viewing video from an HDMI or Component source on the main screen.  |  |
| A POP (TV's internal banner ad) appears on the screen.                           | Change the 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.  | Your TV utilizes high-speed switching circuits and high levels of electrical current. Depending on the TV's brightness level, the TV may seem slightly noisier than a conventional TV.<br>Your TV has undergone strict quality control procedures that meet our demanding performance and reliability requirements.<br>Some noise coming from the TV is considered normal and is not an acceptable cause for an exchange or refund. |  |

# **Read Before Using 3D Viewing Mode**

## **3D Precautions**

#### ▲ Warning

• When viewing a 3D video under a fluorescent lamp (50 Hz - 60 Hz) or 3-wavelength lamp, you may notice a small amount of screen flickering.

If this occurs, dim or turn off the light.

- Switching the input mode while watching a 3D movie may disable the 3D function on the TV.
  - As a result, the 3D glasses may not function and the movie may not be displayed properly.
- Ensure you are within the working distance of the glasses when you view a 3D video.
  - The images may not be viewable in 3D if you move outside of the working distance for 3 seconds.
  - If the 3D glasses are moved outside of their working distance, the signal from the TV will disconnect and the glasses' 3D function will turn off after several seconds. When this happens, the red LED will turn on for 3 seconds.
- If you lie on your side while watching TV with 3D active glasses, the picture may appear dark or may not be visible. The actual 3D effect may be experienced differently depending on the viewer. The 3D effect may not be visible if the visual ability of your left eye differs greatly from the visual ability of your right eye.
- If a part of the 3D glasses or lenses is defective or damaged, it cannot be repaired and the glasses should be replaced. If the glasses stop working within the warranty period, the glasses can be repaired or replaced for free. If the glasses have been damaged due to the fault of the customer or the warranty period has expired, a new pair of glasses will have to be purchased.
- The 3D glasses may not work properly due to interference from other 3D products or electronic devices that operate on the 2.4GHz frequency such as a microwave oven or Internet AP. If the 3D function malfunctions due to interference, please move all other electronic or wireless communication devices as far away from the glasses and the TV as possible.
- The vividness of the image may appear degraded if you view 3D video in a place that is exposed to direct sunlight or illumination.
- The 3D glasses may malfunction if there is an electric field or metallic object such as a steel plate nearby. Keep the glasses as far away as possible from electric fields and metallic objects.
- With SSG-3570 model glasses, the glasses may power off if you remain stationary while viewing 3D video for an extended period of time.
- With SSG-3570 model glasses, if the 3D glasses do not function immediately after you put them on when the TV is in 3D mode, take them off and then put them back on.

#### **▲** 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 other purposes such as general wear, sunglasses, protective goggles, etc.
- Some viewers may experience discomfort such as dizziness, nausea, and headaches while viewing 3D TV. If you experience any of these symptoms, stop viewing the 3D TV, remove the 3D glasses, and rest for awhile.
- Watching 3D pictures for an extended period of time may cause eye strain. If you experience any eye strain, stop viewing the 3D TV, remove the 3D glasses, and rest for awhile.
- Do not use the 3D function or 3D glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may result in injury from running into objects, tripping, and/or falling.
- Do not sleep with the 3D glasses on. You can damage or break the temples.
- The temples on your 3D glasses are not foldable. Forcing the temples to fold will damage the 3D glasses.
- With SSG-3570 model 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 would normally.

#### ▲ Safety Precautions

The following safety instructions are to ensure your personal safety and prevent property damage. Please read the following 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 3D glasses malfunction.
- Keep the components of the 3D glasses out of reach of children. Especially, ensure children do not swallow any of the components. If your child swallows 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 crack. Because the product can be easily scratched with foreign substances, make sure to dust off the cloth before using.
- Do not disassemble, or attempt to repair or modify your 3D active glasses by yourself.
- Be careful not to let the temple ends of the 3D active glasses harm your eye.
- Do not sleep with the 3D glasses on. You can break the arms.
- Use your hands to put on or remove the 3D glasses.
- For SSG-5100 model glasses, use only the specified standard batteries. When replacing the battery, insert the battery so that its polarity (+, -) is correct. Failing to do so may damage the battery or result in fire, personal injury or environmental damage caused by liquid leaking from the battery.
- For SSG-5100 model glasses, keep the used battery out of the reach of children so that they do not accidently swallow it. If your child swallows the battery, consult your doctor immediately.
- Swallowing the cylindrical (button type) battery can cause serious damage to your internal organs. If this happens, contact a doctor immediately.

# **S-Recommendation Disclaimer**

Some of the features recommended by S-Recommendation may not be available, depending on the model.

For U.S.A. only

## **S Recommendation with Voice Interaction**

For recommendations given in response to common speech commands:

Voice Interaction is limited to the official language of the country of purchase. Performance may vary based on content availability, the clarity and volume of your voice, and ambient noise levels. Strong regional accents may not be recognized.

Certain Samsung Smart TV features may not be available if you do not give your expressed consent to the collection and use of personal information.

Certain features within S Recommendation require Internet access and may not be available based on service provider, language, dialect, and region.

On TV listings are available from many major video providers and broadcasters. For a complete list of supported video providers, visit www.samsung.com/OnTV.

Your remote control may differ from the images shown in this manual.

## **S** Recommendation

For content recommendations given to fit your TV viewing preferences:

Certain Samsung Smart TV features may not be available if you do not give your expressed consent to the collection and use of personal information.

Certain features within S Recommendation require Internet access and may not be available based on service provider, language, dialect, and region.

On TV listings are available from many major video providers and broadcasters. For a complete list of supported video providers, visit www.samsung.com/ONTV.

Your remote control may differ from the images shown in this manual.

# Supported Resolutions for 3D Modes

These specifications apply to the 16:9 display ratio only.

#### HDMI

• 3D Mode: 👬 (L/R), 👬 (T/B)

| Resolution   | Frequency (Hz)         |
|--------------|------------------------|
| 1280 x 720p  | 50 / 60                |
| 1920 x 1080i | 50 / 60                |
| 1920 x 1080p | 24 / 25 / 30 / 50 / 60 |
| 3840 x 2160p | 24 / 25 / 30 / 50 / 60 |

#### • 3D Mode: 🔝 (Horizontal Line), 🔝 (Vertical Line), 🌇 (Pixel), 🔝 (Frame)

| Resolution   | Frequency (Hz) |
|--------------|----------------|
| 1280 x 720p  | 50 / 60        |
| 1920 x 1080i | 50 / 60        |
| 1920 x 1080p | 25 / 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 "Read Before Playing Photo, Video, or Music Files" section.

#### Computer via HDMI Cable.

The optimal resolution for computers connected to the TV via an HDMI cable is 1920 x 1080. If you select another resolution, the TV may not display 3D images correctly and may not be able to display the computer video in full screen.

# Supported Resolutions for UHD

| Resolution                   | Frequency (Hz)         |
|------------------------------|------------------------|
| 3840 x 2160p<br>4096 x 2160p | 24 / 25 / 30 / 50 / 60 |

# Read Before Using Voice, Motion, or Face Recognition

## Voice, Motion, and Face Recognition 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.

#### Using the TV Camera

- Under some circumstances and under certain legal conditions, the use/misuse of the TV camera
  may result in illegal actions. 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.
- When you are no longer using the camera, close the lens cover of the camera. This prevents any inadvertent or unintentional camera operation.

### **Motion Control**

- Motion Control is worked by connected to the camera. For Motion Control to work, you must be within the camera's recognition range. The camera's recognition range varies depending on the ambient light level and other factors.
- Run the Motion Control Environment Test before using Motion Control to determine the camera's recognition range.
- You may experience physical fatigue when using Motion Control for extended periods.

#### **Voice Control**

- Voice Control 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 Control Environment Test prior to using Voice Control to test the level and clarity and the ambient sound of the surrounding area.
- Voice Text Input requires that you agree to any third-party app's voice privacy policy and that you provide Samsung with your MAC address and other private information.
- Voice Text Input lets you 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.
- You must agree to the following privacy notices before using Interactive Voice Control:
  - Voice Recognition Privacy Notice and Nuance Privacy Notice

# Requirements for Using Voice, Motion, or Face Recognition

#### **Requirements for Using Voice Recognition**

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

#### **Requirements for Using Motion Recognition**

- Before using motion recognition, make sure the TV's camera has been turned on.
- You should be located between 4.9 ft and 11.5 ft 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's position to toward front. Do not point the camera directly at the sun or any other light source or obstruct its view.
- Adjust the camera's angle using the wheel on the back of the camera. Do not point the camera directly at the sun or any other light source or obstruct its view.
- For the camera to recognize movement, you must stand out from the background.
- The appropriate ambient brightness is 50 to 500 lux. (100 Lux: Bathroom, 400 Lux: Living Room)
- Avoid direct sunlight when using Motion Control.
- Run the Motion Control Environment Test to assess the camera's recognition range before using Motion Control.

#### **Requirements for using Face Recognition**

- You should be located between 4.9 ft and 13.1 ft from the camera. The actual recognition range may vary depending on the camera angle and other factors.
- The appropriate ambient brightness is 50 to 500 lux. (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.
  - Your entire face must be visible to the camera. Avoid shadows over your face. Shadows prevent the camera from recognizing faces accurately.
  - Keep your expression as neutral as possible. In addition, keep your mouth closed and as neutral as possible.
  - When you log into your Samsung account, your facial expression must be the same as the facial expression you had when you registered.

# **Read Before Using Apps**

- 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 whatsoever for any interruption of app services caused by the service provider for any reason.
- Application services may be provided in English only and available content may 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.
- Specific services may vary depending on the version of the application installed on the TV.
- An application's functionality may change in future versions of the application. If this occurs, run the application's tutorial or visit the service provider's website.
- Depending on the service provider's policies, certain applications may not support multitasking.

# **Read Before Using the WebBrowser**

- Select WebBrowser. The browsing screen may differ from the one on your computer.
- The web browser is not compatible with Java applications.
- You cannot download files. If you attempt to download a file, you will receive an error message instead.
- The web browser may not be able to access certain websites.
- Playing Flash videos may be restricted.
- E-commerce for online purchases is not supported.
- With websites that have scrollable windows, scrolling a window can result in corrupted characters.
- ActiveX is not supported.
- Certain options are not accessible in Link Browsing mode. (Switch to Pointer Browsing to activate those options.)
- Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
- The response to remote commands and the resulting on-screen display may be delayed while a webpage is loading.
- Loading a webpage may be delayed or suspended completely with certain operating systems.
- The copy and paste operations are not supported.
- When composing an email or a simple message, certain functions such as the font size and color selection may not be available.

- There is a limit to the number of bookmarks and the size of the log file that can be saved.
- The number of windows that can be opened concurrently varies depending on the search conditions and the TV model.
- The web browsing speed will vary depending on the network environment.
- Embedded videos can play with a picture-in-picture (PIP) at the same time.
- The web browser supports .mp3 audio files only.
- The web browser supports a specific file format for importing and exporting bookmarks. (Compatible Format: Netscape-bookmarkfile- 1)
- The folder tree information is not included when importing and exporting bookmarks.
- Exporting bookmarks to a USB device connected to the TV saves the bookmarks under a folder named "Samsung SmartTV Bookmark".
- If the Clock (System > Time > Clock) has not been set, the browsing history will not be saved.
- The browsing history is saved from latest to oldest, with the oldest entries being overwritten first.
- Depending on the types of video/audio codecs supported, it might not be possible to play certain video and audio files while playing Flash content.
- Video sources from PC-optimized streaming service providers may not play properly on our proprietary web browser.
- Using the on-screen QWERTY keyboard automatically disables PIP. (Except when entering a URL.)
# Read Before Playing Photo, Video, or Music Files

## Photo, Video, and Music File Use Limitations

- The TV supports MSC (Mass Storage Class) USB devices only. MSC is a class designation for mass storage devices. Types of MSC devices include external hard drives, flash card readers, and digital cameras. (USB hubs are not supported.) These kinds of devices must be connected directly to the 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 should be connect the USB [5V, 1A] port.
- The TV supports the FAT, exFAT, and NTFS file systems.
- After sorting files in the Folder view mode, the TV can display up to 1000 files per folder. If the USB device contains more than 8,000 files and folders, however, some files and folders might not be accessible.
- The PTP (pier to pier) connection mode is available only for digital cameras. If you connect a smartphone or tablet to the TV using PTP mode, the TV will not recognize it.

## **Compatible Storage Devices for File Transfers**

| Storage device containing media content | Target device   |
|---|---|
| USB Device                              | DLNA Device, SugarSync, Dropbox, SkyDrive, Mobile<br>Device |
| Camera                                  | DLNA Device   |
| DLNA Device                             | USB Device  |
| SugarSync, Dropbox, SkyDrive            | USB Device  |
| Mobile Device                           | USB Device  |

## **Supported External Subtitles**

 $\checkmark$  Certain files, depending on how they were encoded, may not play on the TV.

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

## **Supported Internal Subtitles**

Certain files, depending on how they were encoded, may not play on the TV.

| Name                      | Format |
|---------------------------|--------|
| Xsub                      | AVI    |
| SubStation Alpha          | ΜΚν    |
| Advanced SubStation Alpha | ΜΚν    |
| SubRip                    | ΜΚν    |
| VobSub                    | ΜΚν    |
| MPEG-4 Timed text         | MP4    |
| TTML in smooth streaming  | MP4    |
| SMPTE-TT Text             | MP4    |
| SMPTE-TT PNG              | MP4    |

## Supported Image Formats and Resolutions

 $\checkmark$  Certain files, depending on how they were encoded, may not play on the TV.

| File Extension  | Format | Resoltuion |
|-----------------|--------|------------|
| *.jpg<br>*.jpeg | JPEG   | 15360×8640 |
| *.png           | PNG    | 4096×4096  |
| *.bmp           | BMP    | 4096×4096  |
| *.mpo           | MPO    | 15360×8640 |

## **Supported Music Formats and Codecs**

 $\checkmark$  Certain files, depending on how they were encoded, may not play on the TV.

| File<br>Extension       | Format | Codec               | Note   |
|-------------------------|--------|---------------------|--|
| *.mp3                   | MPEG   | MPEG1 Audio Layer 3 |  |
| *.m4a<br>*.mpa<br>*.aac | MPEG4  | AAC                 |  |
| *.flac                  | FLAC   | FLAC                | Supports up to 2 channels  |
| *.0gg                   | OGG    | Vorbis              | Supports up to 2 channels  |
| *.wma                   | WMA    | WMA                 | Supports up to 10 Pro 5.1 channels<br>WMA lossless audio is not supported<br>Supports up to the M2 profile |
| *.wav                   | wav    | wav                 |  |
| *.mid<br>*.midi         | midi   | midi                | Supports type 0 and type 1<br>Search is not supported Supports<br>USB device only                          |
| *.ape                   | ape    | ape                 |  |
| *.aif<br>*.aiff         | AIFF   | AIFF                |  |
| *.m4a                   | ALAC   | ALAC                |  |

# Supported Video Codecs

 $\checkmark$  Certain files, depending on how they were encoded, may not play on the TV.

| File<br>Format          | Container                         | Video Codecs                                 | Resolution | Frame Rate<br>(fps)   | Bitrate<br>(Mbps)                                       | Audio Codec  |
|-------------------------|-----------------------------------|--|------------|---|---|--|
| *.avi                   |                                   | H.264 BP/MP/HP<br>HEVC(H.265)<br>Motion JPEG | 4096x2160  | 4096x2160:<br>MAX 30<br>3840x2160:<br>MAX 60<br>FHD: MAX 30<br>HD: MAX 60<br>MAX 30 | UHD : 80<br>FHD : 30<br>UHD : 80<br>FHD : 8<br>UHD : 80 |  |
| *.mkv<br>*.asf          |                                   | MVC  |            |   | FHD : 30  |  |
| *.wmv<br>*.mp4          | AVI                               |  |            | FHD: MAX 30<br>HD : MAX 60  |   | AC3  |
| *.mov<br>*.3gp<br>*.vro | *.mov MKV<br>*.3gp ASF            | DivX 3.11 / 4 / 5 / 6<br>MPEG4 SP/ASP        | 1920×1080  |   |   | LPCM<br>ADPCM<br>(IMA, MS)   |
| *.mpg<br>*.mpeg         | 3GP<br>MOV                        | Window Media Video<br>v9(VC1)                |            |   | 30  | AAC<br>HE-AAC<br>WMA<br>DD+<br>MPEG(MP3)<br>DTS(Core, LBR)<br>G.711(A-Law,<br>µ-Law) |
| *.ts<br>*.tp            | FLV<br>VRO                        | MPEG2  |            |   |   |  |
| *.trp<br>*.mov          | *.trp VOB<br>*.mov PS<br>* flv TS | MPEG1  |            |   |   |  |
|                         |                                   | Microsoft MPEG-4 v1, v2, v3                  |            | MAX 30  |   |  |
| -                       |                                   | Window Media Video<br>v7(WMV1), v8(WMV2)     |            |   |   |  |
|                         |                                   | H.263 Sorrenson                              |            |   |   |  |
|                         |                                   | VP6  |            |   |   |  |
|                         |                                   | MVC  |            |   |   |  |
| *.webm                  | WebM                              | VP8  | 1920x1080  | 6~30  | 20  | Vorbis   |

## **Other Restrictions**

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

## **Video Decoders**

- H.264 FHD is supported for up to Level 4.1. (does not support FMO/ASO/RS)
- H.264 UHD is supported for up to Level 5.1.
- HEVC FHD is supported for up to Level 4.1.
- HEVC UHD is supported for up to Level 5.1.
- VC1 AP L4 is not supported.
- All video codecs excluding WMV v7, v8, MSMPEG4 v3, MVC, and VP6: Below 1280x720: 60 frame max
   Above 1280x720: 30 frame max
- GMC 2 or above is not supported.
- Supports SVAF Top/Botton, Side by Side and Left/Right view sequence type(2 ES) only.
- Supports BD MVC specs only.

#### **Audio Decoders**

- WMA 10 Pro supports up to 5.1 channels. Supports up to the M2 profile.
- WMA lossless audio is not supported.
- OCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 2 channels.
- DD+ is supported for up to 5.1 channels.
- The DTS LBR codec is only available for MKV / MP4 /TS containers.

# **Read After Installing the TV**

## **Picture Sizes and Input Signals**

| Input Signal                   | Picture Size  |
|--------------------------------|---|
| Analog Channel/External Input  | 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                             |
| Digital Channel (720p)         | 16:9, Wide Fit, 4:3, Smart View 2                           |
| Digital Channel (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 (3840 x 2160p)            | Screen Fit  |
| HDMI (4096 x 2160p)            | 16:9, Screen Fit  |

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

The **Picture Size** option is not available with images in the 3840 x 2160p resolution because the supported screen size is fixed.

## Installing an Anti-Theft Lock

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

The method of using an anti-theft lock may differ for each TV model. Refer to the lock's user manual for more information.

Availability depends on the model.

## **Read Before Setting Up a Wireless Internet Connection**

#### **Wireless Internet Precautions**

- This TV supports the IEEE 802.11a/b /g /n /ac communication protocols. Samsung recommends using IEEE 802.11n. Video files stored on a device connected to the TV via DLNA may not play back smoothly.
- To use wireless Internet, 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 password using characters and numbers. This password is then needed to connect to a security-enabled AP.

## **Wireless Security Protocols**

The TV only supports the following wireless network security protocols.

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

In compliance with the newest Wi-Fi certification specifications, Samsung TVs do not support WEP or TKIP security encryption in networks running in the 802.11n mode.

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

The TV cannot connect to non-certified wireless routers.

# Read Before Connecting a Computer (Supported Resolutions)

When you connect your TV to a computer, set the computer's video card to one of the standard resolutions listed in the tables below or on the next page. The TV will automatically adjust to the resolution you choose. Note that the optimal and recommended resolution is 1920 x 1080@60Hz.

Choosing a resolution not included in the tables can result in a blank screen or just the power indicator turning on.

Refer to the user manual of your graphics card for compatible resolutions.

## IBM

| Resolution<br>(DotsxLines) | Display Format | Horizontal<br>Frequency<br>(KHz) | Vertical<br>Frequency<br>(Hz) | Clock Frequency<br>(MHz) | Polarity<br>(Horizontal/<br>Vertical) |
|----------------------------|----------------|----------------------------------|-------------------------------|--------------------------|---------------------------------------|
| 720×400                    | 70Hz           | 31,469                           | 70.087                        | 28.322                   | -/+                                   |

## MAC

| Resolution<br>(DotsxLines) | Display Format | Horizontal<br>Frequency<br>(KHz) | Vertical<br>Frequency<br>(Hz) | Clock Frequency<br>(MHz) | Polarity<br>(Horizontal/<br>Vertical) |
|----------------------------|----------------|----------------------------------|-------------------------------|--------------------------|---------------------------------------|
| 640×480                    | 67Hz           | 35,000                           | 66.667                        | 30.240                   | -/-                                   |
| 832x624                    | 75Hz           | 49,726                           | 74,551                        | 57.284                   | -/-                                   |
| 1152x870                   | 75Hz           | 68,681                           | 75.062                        | 100.000                  | -/-                                   |

# **VESA DMT**

| Resolution<br>(DotsxLines) | Display Format | Horizontal<br>Frequency<br>(KHz) | Vertical<br>Frequency<br>(Hz) | Clock Frequency<br>(MHz) | Polarity<br>(Horizontal/<br>Vertical) |
|----------------------------|----------------|----------------------------------|-------------------------------|--------------------------|---------------------------------------|
| 640×480                    | 60Hz           | 31,469                           | 59.940                        | 25,175                   | -/-                                   |
| 640×480                    | 72Hz           | 37,861                           | 72.809                        | 31,500                   | -/-                                   |
| 640×480                    | 75Hz           | 37,500                           | 75.000                        | 31,500                   | -/-                                   |
| 800×600                    | 60Hz           | 37.879                           | 60,317                        | 40.000                   | +/+                                   |
| 800×600                    | 72Hz           | 48.077                           | 72,188                        | 50.000                   | +/+                                   |
| 800×600                    | 75Hz           | 46.875                           | 75.000                        | 49.500                   | +/+                                   |
| 1024x768                   | 60Hz           | 48,363                           | 60.004                        | 65.000                   | -/-                                   |
| 1024x768                   | 70Hz           | 56.476                           | 70.069                        | 75.000                   | -/-                                   |
| 1024x768                   | 75Hz           | 60.023                           | 75.029                        | 78.750                   | +/+                                   |
| 1152x864                   | 75Hz           | 67.500                           | 75.000                        | 108.000                  | +/+                                   |
| 1280x720                   | 60Hz           | 45.000                           | 60.000                        | 74.250                   | +/+                                   |
| 1280×800                   | 60Hz           | 49.702                           | 59,810                        | 83,500                   | -/+                                   |
| 1280×1024                  | 60Hz           | 63,981                           | 60.020                        | 108.000                  | +/+                                   |
| 1280×1024                  | 75Hz           | 79.976                           | 75.025                        | 135.000                  | +/+                                   |
| 1366x768                   | 60Hz           | 47,712                           | 59,790                        | 85.500                   | +/+                                   |
| 1440×900                   | 60Hz           | 55,935                           | 59.887                        | 106,500                  | -/+                                   |
| 1600×900RB                 | 60Hz           | 60.000                           | 60.000                        | 108.000                  | +/+                                   |
| 1680×1050                  | 60Hz           | 65.290                           | 59.954                        | 146.250                  | -/+                                   |
| 1920×1080                  | 60Hz           | 67.500                           | 60.000                        | 148,500                  | +/+                                   |
| 1920×1200                  | 60Hz           | 74.556                           | 59,885                        | 193,250                  | -/+                                   |

# Supported Resolutions for Video Signals

# CEA-861

| Resolution<br>(DotsxLines) | Display<br>Format | Horizontal<br>Frequency<br>(KHz) | Vertical<br>Frequency<br>(Hz) | Clock Frequency<br>(MHz) | Polarity<br>(Horizontal/<br>Vertical) |
|----------------------------|-------------------|----------------------------------|-------------------------------|--------------------------|---------------------------------------|
| 720(1440)×480i             | 60Hz              | 15,734                           | 59,940                        | 27,000                   | -/-                                   |
| 720(1440)×576i             | 50Hz              | 15,625                           | 50,000                        | 27.000                   | -/-                                   |
| 720x480                    | 60Hz              | 31,469                           | 59,940                        | 27.000                   | -/-                                   |
| 720x576                    | 50Hz              | 31,250                           | 50,000                        | 27.000                   | -/-                                   |
| 1280x720                   | 60Hz              | 45.000                           | 60,000                        | 74.250                   | +/+                                   |
| 1280x720                   | 50Hz              | 37,500                           | 50,000                        | 74.250                   | +/+                                   |
| 1920x1080i                 | 60Hz              | 33,750                           | 60,000                        | 74.250                   | +/+                                   |
| 1920x1080i                 | 50Hz              | 28,125                           | 50,000                        | 74.250                   | +/+                                   |
| 1920×1080                  | 60Hz              | 67,500                           | 60.000                        | 148,500                  | +/+                                   |
| 1920×1080                  | 50Hz              | 56.250                           | 50,000                        | 148,500                  | +/+                                   |
| 1920×1080                  | 30Hz              | 33,750                           | 30,000                        | 74.250                   | +/+                                   |
| 1920×1080                  | 25Hz              | 28,125                           | 25,000                        | 74.250                   | +/+                                   |
| 1920×1080                  | 24Hz              | 27.000                           | 24.000                        | 74.250                   | +/+                                   |
| 3840x2160                  | 24Hz              | 54.000                           | 24.000                        | 297.000                  | +/+                                   |
| 3840x2160                  | 25Hz              | 56.250                           | 25,000                        | 297.000                  | +/+                                   |
| 3840x2160                  | 30Hz              | 67,500                           | 30,000                        | 297.000                  | +/+                                   |
| 3840x2160                  | 50Hz              | 112,500                          | 50,000                        | 594.000                  | +/+                                   |
| 3840x2160                  | 60Hz              | 135.000                          | 60.000                        | 594.000                  | +/+                                   |
| 4096x2160                  | 24Hz              | 54.000                           | 24.000                        | 297.000                  | +/+                                   |
| 4096x2160                  | 25Hz              | 56.250                           | 25,000                        | 297.000                  | +/+                                   |
| 4096x2160                  | 30Hz              | 67.500                           | 30,000                        | 297.000                  | +/+                                   |
| 4096×2160                  | 50Hz              | 112,500                          | 50,000                        | 594.000                  | +/+                                   |
| 4096×2160                  | 60Hz              | 135.000                          | 60.000                        | 594.000                  | +/+                                   |

# HDMI

| Resolution<br>(DotsxLines) | Display<br>Format | Horizontal<br>Frequency<br>(KHz) | Vertical<br>Frequency<br>(Hz) | Clock Frequency<br>(MHz) | Polarity<br>(Horizontal/<br>Vertical) |
|----------------------------|-------------------|----------------------------------|-------------------------------|--------------------------|---------------------------------------|
| 3840×2160                  | 30Hz              | 67.500                           | 30,000                        | 297.000                  | +/+                                   |
| 3840×2160                  | 25Hz              | 56.250                           | 25.000                        | 297.000                  | +/+                                   |
| 3840×2160                  | 24Hz              | 54.000                           | 24.000                        | 297.000                  | +/+                                   |
| 4096×2160                  | 24Hz              | 54.000                           | 24.000                        | 297.000                  | +/+                                   |

# License



DivX Certified® to play DivX® video up to HD 1080p, including premium content.

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# Glossary

#### • 480i/480p/720p/1080i/1080p

Generally refers to the number of effective scanning lines that determines the screen's resolution. There are two scanning methods: interlaced and progressive.

Scanning

Sequential projection of pixels to form images. The higher the number of pixels, the clearer and more vivid the images.

- Progressive

A sequential scanning method that scans every line, one after another.

Interlaced

A staggered scanning method that scans every other line until the end of the screen and then fills in the remaining lines.

Example) If the number of horizontal scan lines is 480i

Scans 240 lines from start to finish and then scans the remaining 240 lines for a total of 480 lines.

\* General differences between 480i and 480p are as follows:

|                      | 480i     | 480p    |
|----------------------|----------|---------|
| Horizontal Frequency | 15.75Khz | 31,5Khz |
| FPS                  | 30       | 60      |
| Lines on Screen      | 480      | 480     |

#### ARC (Audio Return Channel)

ARC lets the TV output digital sound to an audio device and input digital sound from the same audio device through one 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.

#### • DVI (Digital Visual Interface)

Connecting the TV's DVI connector to a computer's DVI connector via an HDMI-to-DVI cable lets you use the TV as a computer monitor. However, HDMI-to-DVI cables deliver video signals only. You must connect a set of speakers to the computer using a separate cable to hear the computer's audio.

#### HDMI (High Definition Multimedia Interface)

HDMI is a method of transmitting both video and audio signals via a single cable.

#### • 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.

#### • Ethernet

Ethernet is a LAN (Local Area Network) that uses coaxial cables standardized by the IEEE.

#### Component Connection

Component connections are mostly used for game consoles and transmit the video signal by splitting it into a luminance signal (Y) and two color signals (Pb and Pr). The connector is marked as [Component IN]\_(Pr, Pb, Y) on the back of the TV. On some devices, it is sometimes marked as Cr, Cb, Y. Cb and Cr are the digital conversions of the Pb and Pr signals.

The connectors are normally color-coded red (R), blue (B), and green (G) and offer the best picture quality possible for an analog connection.