

# LED TV Installation manual



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www.samsung.com/register

Model

Serial No.

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

# Instruction

This TV is provided with interactive functionality through a set-back box (SBB/STB) connected to the TV, and with other TVs in a computer-controlled system for hotels and other hospitality businesses.

Interactive: When the TV is powered-up initially, it sends a command to identify the SBB/STB; if identified, the TV switches to ONLINE mode and full control is through the SBB/STB.

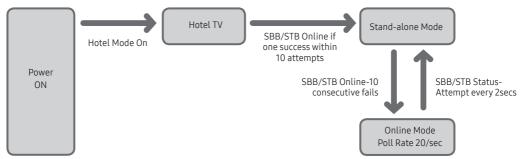
If the TV is in ONLINE mode, it stops receiving IR(Samsung remote) commands and acts according to interface protocol.

Stand-Alone: If SBB/STB is not identified, the TV should be switched to STAND-ALONE mode with restricted operation.

# **Operational Modes**

When this TV (in Hotel mode) is operated with a SBB/STB, it is in one of two states :

• ONLINE or STAND-ALONE. In the STAND-ALONE state, the TV will act as a Hotel TV, but without active communication. This is to prevent quests from trying to cheat the system by disconnecting the SBB/STB.



To set the details for Stand-alone or interactive mode, refer to pages 28-33(Setting the hotel option data: Stand-alone mode and Interactive mode)

- Some operations may be restricted to prevents quests from "cheating" the TV system.
- No main menu(Interactive mode) or Channel Menu, Plug & Play in Main Menu (Stand-Alone mode)
- Limited Volume and Panel key lock or unlock

# Still image warning

Avoid displaying still images (like jpeg picture files) or still image element (like TV Program logo, panorama or 4:3 image format, stock or news bar at screen bottom etc.) on the screen. Constant displaying of still picture can cause uneven wear of screen phosphor, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

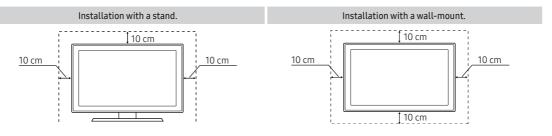
- Avoid displaying the same TV channel for long periods.
- · Always try do display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout. Refer to the relevant user manual section for details.

# Securing the Installation Space

Keep required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - Using parts provided by another manufacturer may result in a problem with the product or injuries due to the product falling.
- The appearance may differ, depending on the product.



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### Accessories

- 🖎 Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.
- The items' colour and shapes may vary depending on the model.
- Remote Control & Batteries (AAA x 2)
- Samsung Smart Control (sold separately) (32 inch TVs or larger)
- · Quick Setup Guide
- CI Card Adapter

- Hotel Mount Kit (32 inch TVs or larger)
- Power Cord / Data Cable
- Owner's Instructions Safety Guide (Not available in all locations)
- Cable Holder



Wall mount Adapter

- The stand and stand screw may not be included, depending on the model.
- ♠ The Data Cable may not be included, depending on the SI Vendor.



### Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

### (Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



### Correct disposal of batteries in this product

# (Applicable in the European Union and other European countries with separate battery return systems.)



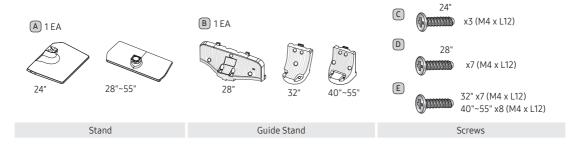
This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hq, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

# **Installing the LED TV Stand**

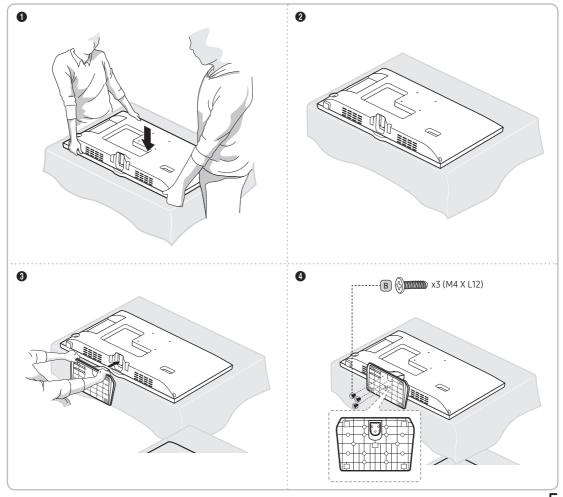
The 32" and larger LED TVs have swivel stands. You can set these stands so that the TVs swivel 20 degrees left and right or 90 degrees left and right.

# **Stand Components**

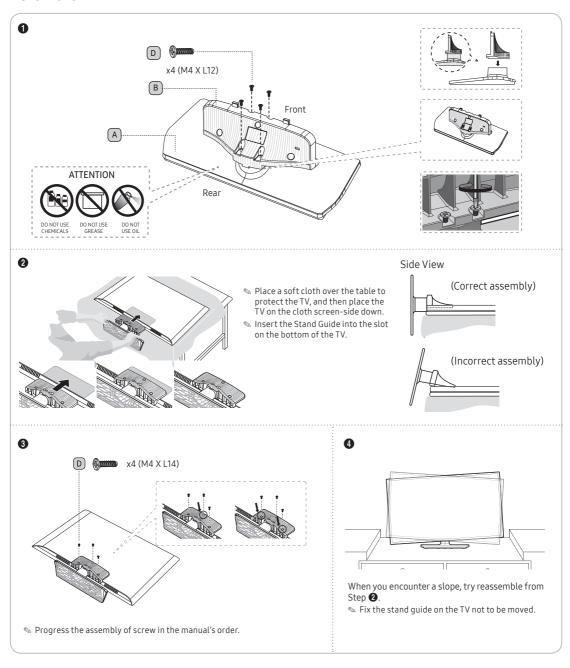
When installing the stand, use the provided components and parts.



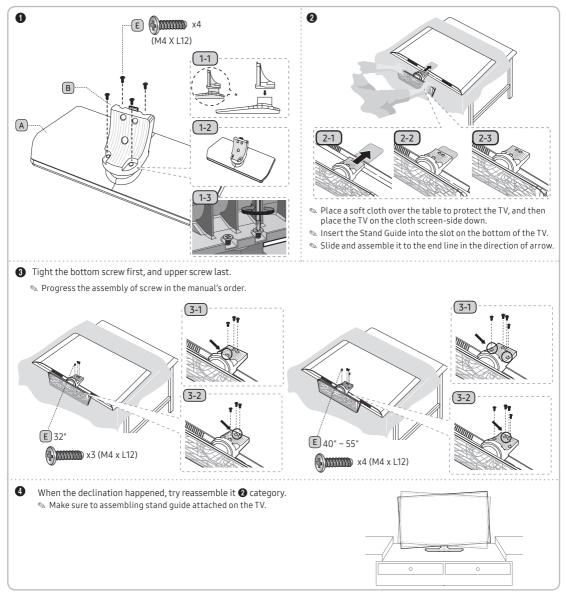
# HG24EE690



# HG28EE690



# HG32EE690 / HG40EE690 / HG49EE690 / HG55EE690



### NOTE

- Make sure to distinguish between the front and back of each component when assembling them.
- Make sure that at least two persons lift and move the TV.

# Assembling the swivel (32 inch TVs or larger)

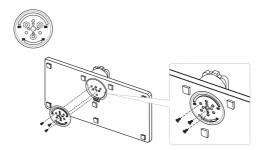
**▲** WARNING:

If you configure the TV to swivel, you must attach it securely to the floor, a desk, a dresser top, etc. as described in the installation instructions.

The 32" and larger LED TVs have swivel stands. You can configure these stands so that the TVs swivel 20 degrees left and right, 60 degrees left and right, or 90 degrees left and right using the BRACKET HOLDER SWIVEL.

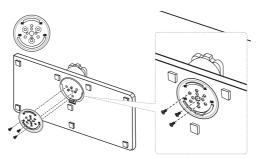
# 20° Swivel

To configure the TV so that it swivels 20° left and right, insert the prong on the bottom of the stand through the curved hole in the Bracket Holder Swivel marked 20°. Then, fix the Bracket Holder Swivel to the stand using the three supplied screws as shown below.



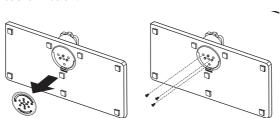
# 60° Swivel

To configure the TV so that it swivels 60° left and right, insert the prong on the bottom of the stand through the curved hole in the Bracket Holder Swivel marked 60°. Then, fix the Bracket Holder Swivel to the stand using the three supplied screws as shown below.



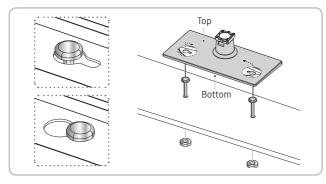
### 90° Swivel

To configure the TV so that it swivels 90° left and right, remove the Bracket Holder Swivel, and then screw the three supplied screws into the stand as shown below.



# Hotel Mount Kit





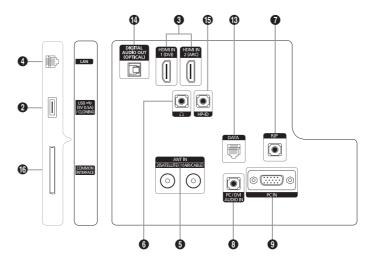
Affix the stand to a flat surface such as a dresser top, desk top, or entertainment centre as shown.



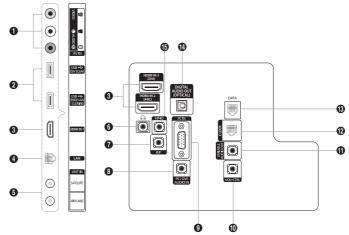
**WARNING**: To prevent injury, you must attach this TV securely to the floor, a table, a dresser top, etc. with the Hotel Mount Kit as described in these instructions.

# **Viewing the Connection Panel**

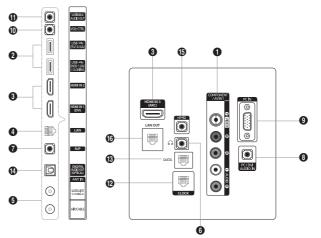
HG24EE690\*\*



HG28EE690\*\*



HG32EE690\*\* HG40EE690\*\* HG49EE690\*\* HG55EE690\*\*



- Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
- When connecting an external device, match the colour of the connection terminal to the cable.

### 1 AV IN

- Connect audio cables to "[L-AUDIO-R]" on your TV and the other ends to corresponding audio out jacks on an A/V device
- Connect RCA audio cables (optional) to "[L-AUDIO-R]" on the rear of the TV set and the other ends to corresponding audio out jacks on the external device.
- When connecting to AV IN, the colour of the AV IN [Y/VIDEO] jack (Green) does not match the colour of the video cable (Yellow).

### 2 USB (5V 0.5A), USB (HDD/1.0A) / CLONING

- Connector for software upgrades and Media Play, etc.
- Service connection.

# 3 HDMI IN / HDMI IN (ARC) / HDMI IN (DVI)

Connects to the HDMI jack of a device with an HDMI output.

- No sound connection is needed for an HDMI-HDMI connection. HDMI connections carry both audio and video.
- Use the HDMI IN (DVI) jack for a DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for the video connection and the PC/DVI AUDIO IN jacks for audio.

### **A** LAN

Connect to a wired LAN using CAT7 cable.

- **5** ANT IN (SATELLITE), (AIR/CABLE)
  - To view television channels correctly, the TV must receive a signal from one of the following sources:
  - An outdoor antenna / A cable television system

### **6** HEADPHONE JACK

Headphones may be connected to the headphone jack on your TV. While the headphones are connected, the sound from the built-in speakers is disabled.

RJP

This port is an RJP (Remote Jack Pack) communication port that enables connecting different devices to additional modules to improve device use and convenience.

### 8 PC/DVI AUDIO IN

Connects to the audio out jack of an external DVI device using a 1/8th inch stereo phone jack cable. Some DVI devices may not or should not need this connection audio.

9 PC IN

Connect to the video output jack on your computer.

**10** VOL-CTRL

Used to control the volume of the Bathroom speaker. Connect the Bathroom Wall Box and the VOLCTRL port.

WARIABLE AUDIO OUT

Used for the audio output to the Bathroom speaker. Connect the Bathroom Wall Box and the Variable port (RCA).

CLOCK

Set the time after connecting the cable of the External Clock to Clock jack. You can use the External Clock Display function.

- DATA
  - Used to support data communication between the TV and the SBB.
  - Connects using RJ-12 TV type plugs.
- (1) DIGITAL AUDIO OUT (OPTICAL)

Connects to a Digital Audio component.

### (B) HP-ID

Connect the cable to HP-ID and Headphone Jack simultaneously and connect it to separated Headphone Box. See page 23. When connecting Headphone to Headphone Box, it works same as Headphone function.

### (B) LAN OUT

Wired LAN connection port used to connect an external device such as a laptop to connect to the Internet. (However, the TV must be connected to the Internet via wired LAN.)

# **Display Modes**

You can also select one of the standard resolutions listed in the Resolution column. The TV will automatically adjust to the resolution you choose.

After connecting a computer to the TV, set the screen resolution for the TV on the computer. The optimal resolution is 1920 x 1080 @ 60 Hz. If it is set to any other than in the table below, the TV may display nothing. Set the resolution properly, referring to the user guide of the computer or its graphic card.

The resolutions in the table are recommended.

Optimal resolution is 1366 X 768 @ 60 Hz.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IDM	640 x 350	31.469	70.086	25.175	+/-
IBM	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
MAC	832 x 624	49.726	74.551	57.284	-/-
VEC A CVE	720 x 576	35.910	59.950	32.750	-/+
VESA CVT	1280 x 720	56.456	74.777	95.750	-/+
	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.500	75.000	31.500	-/-
	640 x 480	37.861	72.809	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
VESA DMT	800 x 600	48.077	72.188	50.000	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1280 x 720	45.000	60.000	74.250	+/+
	1366 x 768	47.712	60.015	85.500	+/+
VESA GTF	1280 x 720	52.500	70.000	89.040	-/+

# Optimal resolution is 1920 X 1080 @ 60 Hz.

Mode Resoluti		Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	IBM 720 x 400 31.469		70.087	28.322	-/+
	640 x 480	35.000	66.667	30.240	-/-
MAC	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
VESA DMT	1152 x 864	67.500	75.000	108.000	+/+
VESA DIVIT	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1280 x 720	45.000	60.000	74.250	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 960	60.000	60.000	108.000	+/+
	1366 x 768	47.712	60.015	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1600 x 900RB	60.000	60.000	108.000	+/+
	1680 x 1050	65.290	59.954	146.250	-/+
	1920 x 1080	67.500	60.000	148.500	+/+

When using an HDMI/DVI cable connection, you must use the HDMI IN (DVI) jack.

The interlace mode is not supported.

The set might operate abnormally if a non-standard video format is selected.

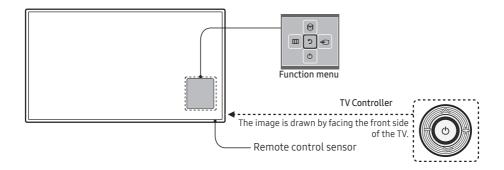
Separate and Composite modes are supported. SOG is not supported.

# TV Controller

TV Controller is a multi directional button that helps navigate without using the remote control.

- Some functions which require a PIN code may not be available.
- The product colour and shape may vary, depending on the model.
- Exits the menu when pressing the controller for more than 1 second.
- When selecting the function by moving the controller to the up/down/left/right directions, do not press the controller. If the controller is used first, you cannot operate it to move the up/down/left/right directions.

### HG24EE690 / HG28EE690

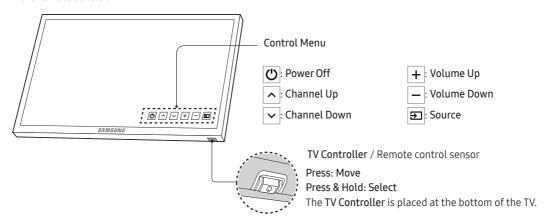


Power on	Turn the TV on by pressing the controller in standby mode.
Adjusting the volume	Adjust the volume by moving the controller from side to side when the power is on.
Selecting a channel	Select a channel by moving the controller up and down when the power is on.
Using the function menu	Press the controller when the power is on and the function menu appears. If you press it again, the function menu screen disappears.
Using the Menu	Selects the MENU(III) by moving the controller in the function menu screen. The OSD(On Screen Display) of your TV's feature appears.
Selecting the Source	Selects the <b>Source</b> (
Selecting the SMART HUB (	With the Function menu visible, select SMART HUB $(\Theta)$ by moving the Controller upwards. The SMART HUB main screen appears. Select an application by moving the Controller, and then pressing the Controller.
Power Off	Selects the Power Off( $\circlearrowleft$ ) to turn the TV off by moving the controller in the function menu screen.

To close the Menu, SMART HUB, or Source, press the Controller for more than 1 second.

# HG32EE690 / HG40EE690 / HG49EE690 / HG55EE690

The TV's Controller, a small joy stick like button on the bottom right side of the TV, lets you control the TV without the remote control.

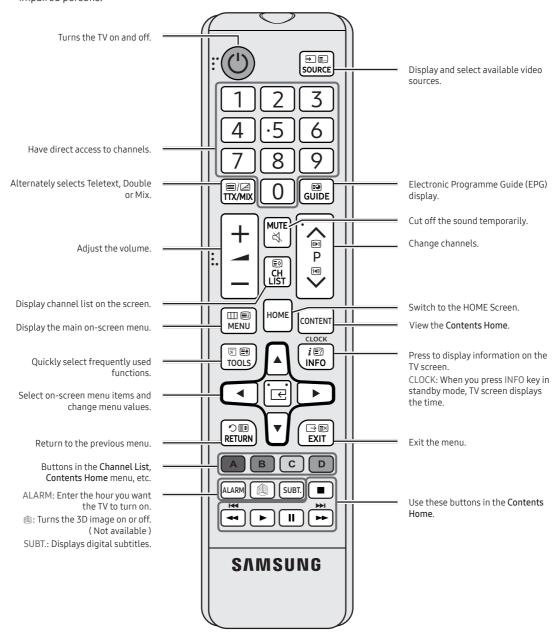


# Standby mode

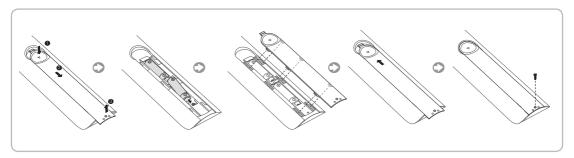
Do not leave your product in standby mode for long periods of time (when you are away on a holiday, for example). A small amount of electric power is still consumed even when the power button is turned off.

# **Viewing the Remote Control**

🖎 This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.



# Installing batteries (Battery size: AAA)

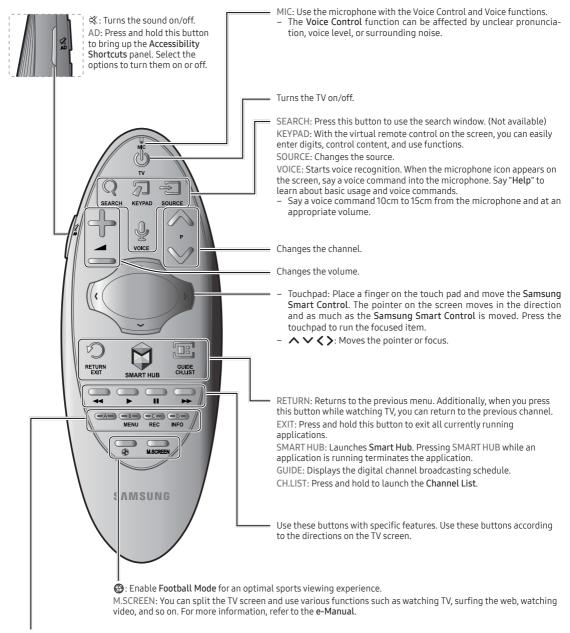


### NOTE

- Use the remote control within 7m of the TV.
- Bright light may affect the performance of the remote control. Avoid using nearby special fluorescent light or neon signs.
- The colour and shape may vary depending on the model.
- Remote control button 'HOME' & '3D' are not supported. When pressing these buttons, the TV unit does not respond.

# Samsung Smart Control (sold separately)

- 🖎 This function is supported for the HG32EE690 series models or higher in specific geographical areas.
- Colours and shape may vary depending on the model.



Colours button: Use these colour buttons to access additional options specific to the feature in use.

- MENU: Press and hold to display a menu on the screen.
- REC: Press and hold to record the broadcast.
- INFO: Press and hold to view information about the current digital channel or media file.

# Inserting Batteries into Samsung Smart Control

To use Samsung Smart Control, first refer to the figure below and insert batteries into the unit.



Gently pull on the battery cover's notch and then remove the cover completely once it comes loose. Insert 2 AA alkaline batteries, making sure to align the positive and negative polarities correctly.

# Using the Samsung Smart Control

Samsung Smart Control makes it even easier and more convenient to use the TV. Pressing the **KEYPAD** button displays a virtual remote control that allows you to easily enter digits, control content, and activate functions on the screen.

 We recommend using Samsung Smart Control at a distance of less than 6m. A usable distance may differ depending on the wireless environmental conditions.

### Pairing the Samsung Smart Control

To control the TV with Samsung Smart Control, you need to pair Samsung Smart Control to the TV via Bluetooth. Pair Samsung Smart Control to the TV.

- Samsung Smart Control can only be paired to a single TV.

Point Samsung Smart Control at the remote control sensor of the TV and press the TV button to turn the TV on.

- Remote control receiver's location may vary depending on the model.

# Reconnecting Samsung Smart Control



If the Samsung Smart Control stops operating or works abnormally, replace the batteries as this may be due to insufficient battery power.

If the problem persists, the Samsung Smart Control restores pairing with the TV.

- 1. Press RETURN button and GUIDE button simultaneously for 3 seconds.
  - You must place the Samsung Smart Control approximately 30cm ~ 40cm away from the TV and ensure it is pointing towards the remote control receiver.
- 2. Connection image is appeared on the screen. And then, Samsung Smart Control is connecting to TV automatically.

# When you see this alarm icon on the screen...



Following alarm icon indicates Samsung Smart Control's batteries are low. If the alarm icon pops up, replace the batteries. Samsung recommends using alkaline batteries for a longer operating life.

<Low battery Alarm Icon>

### Using the TV by Moving the Samsung Smart Control

The Samsung Smart Control has a motion sensor (gyro sensor) that allows you to easily control the TV by holding and moving the Samsung Smart Control.

After placing a finger on the touchpad, a pointer appears on the screen. Hold and move the Samsung Smart Control. The pointer moves the same way the Samsung Smart Control is moved. It's also possible to scroll up and down on scrollable screens.

- If you remove the finger from touchpad, the screen pointer disappears.

# Using the TV with the Touchpad

Navigate to the Support menu and select the Smart Control Tutorial option to learn how to use the touchpad, following the on screen instructions.

# Moving the Focus/Pointer

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

### Menu Access & Item Selection

Press the touchpad. This lets you access a TV menu or select an item.

### Displaying the Context-sensitive Menu on Smart Hub

Press and hold on the touch pad from the Smart Hub screen. The Options menu available to the selected item appears. - The Options menu depends on the context.

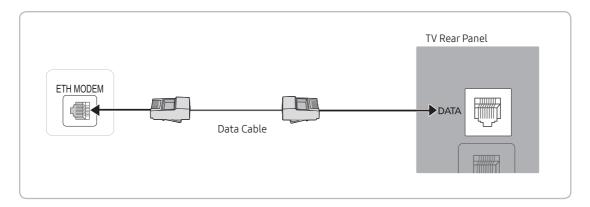
### Moving to the Smart Hub panel

On the Smart Hub screen, drag left or right on the touchpad. This will move the Smart Hub panels left or right.

### Scrolling on the Web Browser

Drag up/down on the touchpad in the web browser screen. This scrolls through the web screen.

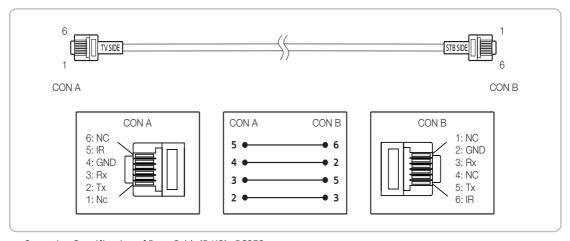
# Connecting the TV with SBB



- The rear panel may differ depending on the model.
- 1. Connect the DATA jack of the TV to the [ETH MODEM] jack of the STB (SBB) with the Data cable.
  - Use data communication.

# List of Vendors and Compatible Data Cables Supplied with the TV

• Confirm that you are using the correct data cable for your vendor. Refer to the code label on the data cables.

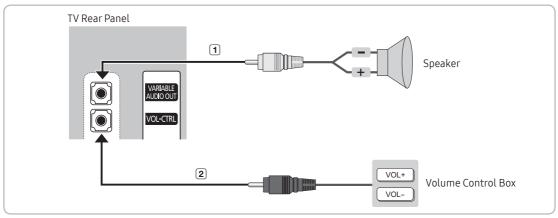


Operation Specification of Data Cable(RJ12): RS232

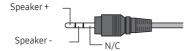
# **Connecting the Bathroom Speakers**

You can connect the Bathroom Speakers using the following method.

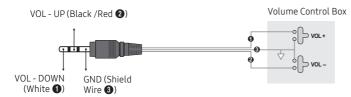
# Connecting through the Variable Output (available without an external amplifier)



- The rear panel may differ depending on the model.
- 1. Connect the VARIABLE AUDIO OUT port of the TV to the Bathroom Wall Speakers of the hotel.



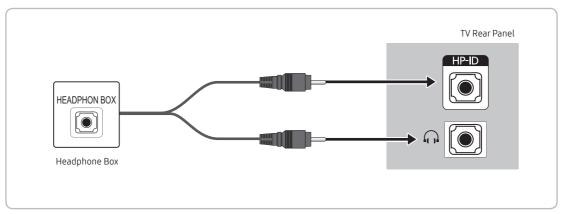
- 2. Connect the VOL-CTRL jack of the TV to the Volume Control Box Switch port on the Bathroom Wall of the hotel.
  - Arr The maximum speaker output is 4W, 8 $\Omega$ .
  - ♠ The VARIABLE AUDIO OUT port supports MONO sound out only.
- Installing the Volume Control
  - If you configure the Volume Control Box as shown in the figure, you can control the volume of the bathroom speakers
  - The jack that connects the Volume Control Box to the TV is a 3.5mm normal Phone jack.
  - Volume Control Box switch is a Tact switch.
    - Setting the Sub AMP Mode
  - 0: Turns the Sub AMP function off (PWM off).
  - 1: Determines the Sub volume according to the main volume control. The sub volume is determined according to the Power On Volume, the Min Volume, and the Max Volume values of Hotel Mode.
  - 2: Determines the volume according to the bathroom control panel setting.
- · Variable Output Port Specifications
  - Speaker Wire: Use speaker cable no more than 82 feet (25m) in length.



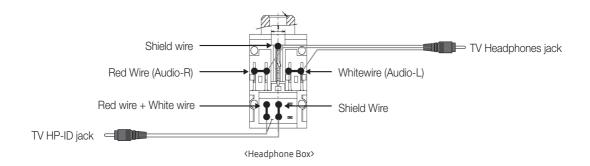
# Audio Loop In

An additional Headphone Box can be installed on a bed or business desk for added convenience. The installation procedures are given below.

• Detailed Drawing of the Headphone Box.

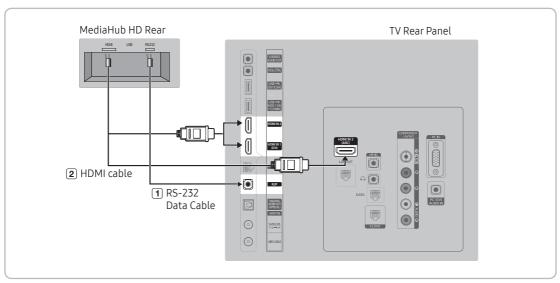


The rear panel may differ depending on the model.



# Connecting the MediaHub HD

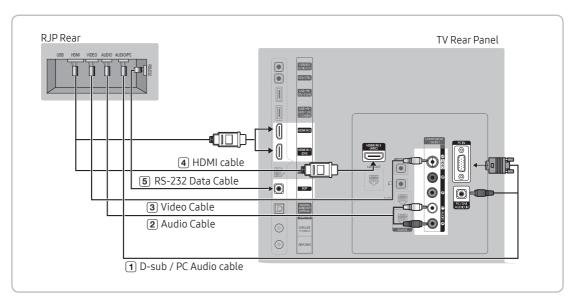
Output to any external source connected to MediaHub HD on the hotel desk.



- The rear panel may differ depending on the model.
- 1. Connect the RJP port of the TV and the RS/232 port of the MediaHub HD.
- 2. Connect the HDMI IN 1, 2 or 3 port of the TV and the HDMI port of the MediaHub HD.
- MediaHub HD
  - The MediaHub HD is a hardware module that has different Audio Video inputs (A/V, Audio, PC, HDMI and USB) and corresponding outputs. The corresponding output sources connect from MediaHub to the TV. MediaHub communicates with the TV via RS232. Hot Plug & Play is a function that allows hotel guests to connect an external source to the MediaHub. MediaHub communicates with the TV by sending messages regarding Active/ Inactive sources. The TV switches to the Active external source.
  - You have to connect the HDMI of the MediaHub to the HDMI IN 3 port of the TV.
  - When the TV is on, connect the TV and the RJP within 10 seconds.
- Special features
  - PIP
  - Auto Detection

# Connecting the RJP (Remote Jack Pack)

Output to any external source connected to RJP on the hotel desk.



- The rear panel may differ depending on the model.
- 1. Connect the PC IN/PC/DVI AUDIO IN port of the TV to the PC/AUDIO port of the RJP.
- 2. Connect the AV IN [VIDEO]/[L-AUDIO-R] port of the TV to the VIDEO port of the RJP.
- 3. Connect the AV IN [VIDEO] port of the TV to the VIDEO port of the RJP.
- 4. Connect the HDMI IN 1, 2 or 3 port of the TV and the HDMI port of the RJP.
- 5. Connect the RJP port of the TV and the RS/232 port of the RJP.
  - The RJP (Remote Jack Pack) compatible with this Samsung TV is TeleAdapt TA-7610, TA-7650 (HD) and TA-7660 (HD Plus).
- RJP (Remote Jack Pack): RJP stands for Remote Jack Pack. The RJP is a hardware module that has different Audio Video inputs (A/V, Audio, PC and HDMI) and corresponding outputs. The corresponding output sources are connected from RJP to TV. The RJP communicates with the TV via RS232. Hot Plug & Play is a function that allows hotel guests to connect an external source to the RJP. The RJP communicates with the TV by sending messages regarding Active/ Inactive sources. The TV will switch to the Active external source according to the priority set by the User.
  - You can select HDMI IN 1, 2 or 3 and AV IN for connecting RJP.
  - When the TV is on, connect the TV and the RJP within 10 seconds.

- The RJP can be returned to the factory default settings by pressing the A/V and HDMI buttons simultaneously for 10 seconds. All LEDs blink 5 times to acknowledge that this has been finished.
- The RJP will automatically turn off any LEDs after 5 minutes to avoid unnecessary light pollution in the hotel room. The LEDs that were turned off will turn on again if the quest touches any of the buttons and the 5 minute timer will restart. If the guest then touches another source button, the TV will change to the selected source and the corresponding LED will be lit.
- After an RJP Reset or a TV Power OFF/ON, it takes approx. 10 seconds to establish communications between the TV and
- The following table shows the approximate time in seconds to switch from the TV to the input source, based on the priority.
  - Scenario 1: When no inputs are connected.

Source	To Connect
AV	2 Sec
PC	0.7 Sec
HDMI	3.9 Sec

Scenario 2: When two or more inputs are connected and an Input source is disconnected and then reconnected.

Source	Disconnect	To Connect	Total
AV	4.5 Sec	2 Sec	6.5 Sec
PC	0.7 Sec	0.7 Sec	1.4 Sec
HDMI	3.9 Sec	3.9 Sec	7.8 Sec

<sup>🖎</sup> E.g. If the RJP has all its live sources AV, PC and HDMI connected, AV is viewed as the highest priority. If the RJP is in HDMI mode, and a guest removes and reconnects the AV, the minimum time required to switch to the AV is 6.5 seconds.

- To connect audio (Ipod or Mp3), Music mode should be ON and Jack Ident detect should be OFF.
- A/V, PC and HDMI input sources are supported.

# Connecting to a COMMON INTERFACE slot (Your TV viewing Card Slot)

Scenario 1: When no inputs are connected.

# Attaching the CI Card Adapter

Attach the adapter as shown side.

■ To install the CI CARD Adapter, please remove the sticker attached to

To connect the CI CARD Adapter, follow these steps.

- We recommend attaching the adapter before installing the wall mount, or inserting the "CI or CI+ CARD".
- 1. Insert the CI CARD Adapter into the two holes on the product 1.
  - Please find two holes on the rear of the TV, beside the COMMON INTERFACE port.
- 2. Connect the CI CARD Adapter into the COMMON INTERFACE port on the product 2.
- 3. Insert the "CI or CI+ CARD".



We recommend that you insert the CI card before you mount the TV on a wall. It may be difficult to insert after mounting. Insert the card after attaching the CI Card Adapter on TV. It is difficult to attach the module if you insert the card before attaching.

# Using the "CI or CI+ CARD"

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

- If you don't insert the "CI or CI+ CARD", some channels will display the message "Scrambled Signal".
- The pairing information containing a telephone number, the "CI or CI+ CARD" ID the Host ID and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
- When the configuration of channel information has finished, the message "Updating Completed" is displayed, indicating the channel list is updated.



- You must obtain a "CI or CI+ CARD" from a local cable service provider.
- When removing the "CI or CI+ CARD", carefully pull it out with your hands since dropping the "CI or CI+ CARD" may cause damage to it.
- Insert the "CI or CI+ CARD" in the direction marked on the card.
- The location of the COMMON INTERFACE slot may be different depending on the model.
- "CI or CI+ CARD" is not supported in some countries and regions; check with your authorized dealer.
- If you have any problems, please contact a service provider.
- Insert the "CI or CI+ CARD" that supports the current aerial settings. The screen will be distorted or will not be seen.





# **Setting the Hotel Option Data**

To Enter: Press the MUTE  $\rightarrow$  1  $\rightarrow$  9  $\rightarrow$  ENTER  $\boxdot$  buttons in order. (From the Hospitality mode, the Standalone mode is set.)

To Exit from this menu: power off and turn on again.

Depending on Model and Region, some menus do not exist on the TV set.

	Hotel TV Function		Description
Category	Item	Initial value	Description
Hospitality Mode	Hospitality Mode	Standalone	Select Hospitality mode.  • Interactive mode : TV works with an SI STB or SBB.
SI Vendor	SI Vendor	OFF	Standalone mode: TV works alone, without an SI STB or SBB.      Interactive mode: Samsung / 2M / Locatel / VDA / VDA-S / Acentic / Innvne / Quadriga / ETV / Ibahn / Magilink / Otrum / Siemens / Amino / MDC / Enseo      Standalone mode: OFF / Movielink / Swisscom / Smoovie / SSCP
	Power On Channel	Last Saved	Set the default values that will be applied when the TV is turned on.  User Defined: Lets you set Power On Channel and Channel Type manually. See Power On Channel and Channel Type below.  Last Saved: If you select this item, when the TV is turned on, it displays the channel it was displaying when it was turned off.
	Power On Channel Num	1	When the TV is turned on, it switches automatically to this channel.
	Power On Channel Type	ATV	Select channel band : AIR (analogue air band), DTV (digital air band), CATV (analogue cable band), CDTV (digital cable band)
Power On	Power On Volume	Last Saved	User Defined: Lets you set the Power On Volume manually. See Power On Volume below.  Last Saved: When the TV is turned on, it returns to the volume that had been set when the power had been turned off.
	Power On Volume Num	10	The TV turns on with this Volume Level in Stand Alone Hospitality mode.
	Min Volume	0	The minimum Volume Level the user can set in Stand Alone Hospitality mode.
	Max Volume	100	The maximum Volume Level the user can set in Stand Alone Hospitality mode.
	Power On Source Power On Option	TV Last Option	Select the input source the TV displays when turns on.  Determines the TV's state when power returns after a power failure or after you have unplugged the TV and then plugged it in again.  • Last Option: Returns to its last Power state. If it was in Stand-by, it returns to
			Stand-by. If it was on, it turns on.  • Power On: When the power returns, the TV turns on.  • Standby: When the power returns, the TV enters the Standby mode.
	Channel Setup		Gives you direct, immediate access to some of the Channel menu functions on the user Channel menu such as Auto Tunning, Antenna selection, etc.
			The Channel Editor lets you edit the channels stored in the TV's memory. Using Channel Editor you can:  Change the channel numbers and names, and sort the channels in your desired channel number order.
	Channel Editor		Apply the video mute to channels you select. The video mute blanks out the video from a channel and outputs only the sound while displaying a speaker icon on the screen.
Channel			The Channel Editor also lets you view information about each channel easily, without your having to display each channel directly.  This Feature enables showing/browsing all antenna type (Air/Cable or Satellite)
	Mixed Channel Map	ON	channels at the same time.  ON: When ON, guests can access the complete Channel Map irrespective of the selected antenna type. The Channel list will also populate Air as well Cable type channels.  OFF: When OFF, guest can access the Channel Map corresponding to the selected antenna type [AIR/CABLE or Satellite] only. The Channel list/Editor will only show the selected antenna type channels.

	Hotel TV Function		Description
Category	Item	Initial value	Description
			ON: Check the DTV Programme channel number. (the TV channel editor is inaccessible)
	Dynamic SI	OFF	OFF: Do not check the DTV Programme channel number. (the DTV channel editor is accessible, but additional channel Programme number update is not supported)
	Channel Rescan Message	ON	When there is a mismatch between the data in the channel map and the transmitted data, the TV autotunes the channels to restore the data/parameters in the channel map.  • ON: When Channel Rescan Message is ON, The OSD showing that the channels are being rescanned will be displayed to Hotel Guests.  • OFF: A Hotel Admin can turn the Channel Rescan Message OFF, if the rescan message OSD should not to be displayed to Hotel Guests.
Channel	Pan Euro MHEG	OFF	OFF: If Pan Euro MHEG is set to Off, MHEG runs according to the existing product specifications.  ON: If Pan Euro MHEG is set to On, MHEG is ON regardless of the product specifications or region.
Chamici	My Channel	OFF	Enable or disable the My Channel feature.
	Genre Editor		Edith the genre for channels. (Available when My Channel is On)
			This function turns the function On/Off that automatically turns on the subtitles in a specific country.  This function is supported for Hotel TVs that are ready to receive DVB broadcasts that is heading to Europe.
	Subtitle Auto On	OFF	This function is related to France's subtitle specification. The rest of the countries' subtitles function according to the appropriate country specifications regardless of the Subtitle Auto On function.
			<ul> <li>ON: When the Subtitle Auto On function is ON, it follows France's subtitle specifications.</li> <li>OFF: When the Subtitle Auto On function is OFF, it does not follow France's subtitle specifications.</li> </ul>
	TTX Widescreen Mode	OFF	Widen the subtitle section to fit the screen width.
	Picture Menu Lock	OFF	Enable or disable the Picture Menu.
	Menu Display	ON	ON: Main Menu display.
	Tools Display	ON	OFF : Main Menu No display.  Hide or show the Tools menu.
	Channel Menu	OFF	Hide or show the Tools mend.
	Display		Turning the front panel (local key) operations on/off.
			Unlock : Unlocks all panel keys.
	Panel Button Lock	Unlock	Lock : Locks all panel keys.
Menu OSD			OnlyPower: Locks all panel keys except the Power panel key.
			Menu/Source : Locks the Menu and Source panel keys.
	Home Menu Display	ON	OFF : The Home Menu is not displayed.  ON The Heave Many is displayed.
	Home Menu Editor		ON : The Home Menu is displayed.  Edit Home Menu
	Home Menu Auto	ON	ON : The Home Menu is Auto Start.
	Start		OFF : The Home Menu is not Auto Start.  Delete Device List in when power on graff.
	BT Auto Remove Device List	ON	Delete Device List in when power on or off.     ON: Connection history is removed in BT Music Player.
			OFF: Disable this feature.      OFF: No clock option of Factory menu shall work. Only Main menu.
	Clock Type	OFF	SW Clock : SW clock shall work only.
			Select the method to update the clock data.  • Manual: Use clock data from DVB channel or manual clock setting When the TV
Clock	Local Time	Manual	is in the stand-alone mode.
2.00			TTX: Bring up the time information from the TTX stream.  Time Channel: Use clock data from the selected Channel type and Channel num.
			Enable or disable the alarm function.
	Timer Type	WakeUp	WakeUp : Enable the alarm function to turn on the device at the specified time.     OnOff : Disable the Alarm function.
			• Unon : Disable the Alarm function.

	Hotel TV Function		
Category	Item	Initial value	Description
	Music Mode AV	OFF	To get music output from an mp3/audio player through an AV Input Source. When on, you can hear sound from the player through the TV even there is no video signal. The TV's backlight, however, remains on. And add a video signal, it works normally.
Music Mode	Music Mode PC	OFF	To get music output from an mp3/audio player through a PC Input Source. When on, you can hear sound from the player through the TV even there is no video signal. The TV's backlight, however, remains on. And add a video signal, it works normally.
	Music Mode Comp	OFF	Allows music output from an mp3/audio player connected to an Component Input Source on the TV. When on, you can hear sound from the player through the TV whether there is a video signal or not. Also mutes the video so the TV does not display a picture when a guest is playing music. The TV's backlight, however, remains on.
	Music Mode Backlight	OFF	Backlight On/Off option in Music mode to save energy
	Priority AV	1	If the jack priority is set, the corresponding source is automatically set when a jack is inserted according to the jack priority
Remote Jack	Priority PC	2	If the jack priority is set, the corresponding source is automatically set when a jack is inserted according to the jack priority.
Pack	Priority HDMI	3	If the jack priority is set, the corresponding source is automatically set when a jack is inserted according to the jack priority.
	AV Option	AV	Select RJP AV Source (Source selection depends on Model).
	HDMI Option	HDMI1	Select which HDMI source of the TV is connected to the RJP jack. (HDMI1/HDMI2/ HDMI3)
	USB Pop-up Screen	Default	When USB is connected to the TV,
			Default : A Popup window appears.
			Automatic : This Enters the USB content menu automatically.
			Disable : Neither the pop-up window nor the menu appears.
	External Source Banner	ON	Users can set External Source Banner to On or Off.
			ON : When TV power is On or the Mode changes, the TV will displays the external source banner.
External			OFF: When TV power is On or the Mode changes, the TV does not display the
Source			external source banner.
		OFF	OFF : Auto Source is Off.
	Auto Source		ON: When an external source is connected to the TV, the TV will auto-ident and
		-	switch the input source.
	Anynet+ Return		PC : Auto Ident PC Input only.  Select the return TV source after stopping an Anynet+(HDMI-CEC) connection.
	Source	Power On Src	(This fuction is especially useful for the Guestlink RJP.)
			Determines the Sub AMP operation mode.
			O: Turns the Sub AMP function off (PWM off).
Bathroom	Sub AMP Mode	2	1: Determines the Sub volume according to the main volume control.  The big the sub-values is determined according to the Power On Volume the
Speaker			That is, the sub volume is determined according to the Power On Volume, the Min Volume, and the Max
			2: Determines the volume according to the bathroom control panel setting.
	Sub AMP Volume	6	Sub AMP Volume level at power on initial condition.
			ON: When the Headphone is connect to the TV, allows you to listen to audio
	HP Mode	OFF	through the TV's speakers and the connected headphones simultaneously. But, you can only adjust the volumes of TV speaker.
HP	ne Mode	OFF	OFF: When the Headphone is connect to the TV, allows you to listen to audio
Management			through the connected headphones only.
	Default HP Volume	10	Configure the values of headphones' volume when HP MODE is set to ON.
	Main Speaker	ON	ON: Plays the TV sound through the TV speaker.  OFF Plays the TV sound through the beadshapes only.
	*		OFF: Plays the TV sound through the headphones only.  Adjusts the brightness of the TV to reduce power consumption.
			Off: Turns off the energy saving function.
Eco Solution	Energy Saving	OFF	Low: Sets the TV to low energy saving mode.
			Medium: Sets the TV to medium energy saving mode.
			High: Sets the TV to high energy saving mode.

	Hotel TV Function		Description
Category	Item	Initial value	Description
	Welcome Message	OFF	displays on Welcome Message.
	Edit Welcome Message		Edit the Welcome Message.
Logo/	Hospitality Logo	OFF	Turns the Hospitality logo feature On or Off, if On, when the TV isturned on, the Logo is displayed, before the signal from the initial source, for the amount of time set in "Logo Display Time"
Message	Hospitality Logo DL		Downloads the Hospitality logo. Hospitality logo file requirements:  • BMP or AVI files only.  • Max file size: BMP - 960 X 540. AVI - 30MB.  • The file can only be named samsung.bmp or samsung.avi.
	Logo Display Time		Set the logo display time (3/5/7 Seconds).
	Clone TV to USB		Clone the current TV option values to a USB memory device.
Cloning	Clone USB to TV  Setting Auto Intialize	OFF	Clone the saved TV option values in a USB memory device to the TV.  When Setting Auto Initialize is set to On, and the power is turned off and on or the Master Power is turned off and on, the data is restored to the cloned values. If there is no cloned value, even when the Setting Auto Initialize is set to On, it will be ignored and the operation will be the same as that whenSetting Auto Initialize is set to Off
	REACH	OFF	ON: The feature of REACH in this TV becomes available.  OFF: The feature of REACH in this TV becomes not available.
	REACH IP Mode		If enabled, Reach will work over IP instead of RF.
	Server IP Setting		The URL of the Reach IP server, for example https:\\192.168.1.2:443.
	REACH Channel		Assign a DTV channel number to carry the update REACH data. This channel number must be the same as the number set on the Reach server.
REACH Solution	REACH Update Time		Lets you set when data such as updated SW, cloning files, and S-LYNC REACH contents is downloaded from the REACH server to the TV:  1hour: Every hour 2hour: Every 2 hours 12:00 AM: every 12:00 a.m. 2:00 AM: every 12:00 p.m. 2:00 PM: every 12:00 p.m.
	REACH Update Immediate		ON: Whenever the TV enters standby mode (the power cord is plugged in and the power is off), the REACH data is updated on the TV.  OFF: The REACH data is only updated on the TV at the REACH server update time.
	Group ID		Select the Group ID of the REACH server. (Refer to the REACH server manual for more details.)
	Room Number		et the Room Number.
	REACH Config Version		The version of REACH is displayed.

Hotel TV Function			2
Category	Item	Initial value	Description
	Network Setup		Set an IP address to establish an Internet connection.  Soft AP: Using this function, you can connect the TV on your mobile devices. Set the options for connection of Wi-Fi device.  Soft AP: Turns on or off the Soft AP. When Soft AP is set to On, your mobile devices can find the TV name in Wi-Fi connection list.  Security key: Set a security key that you need to enter on other devices so they can connect to the TV.  Input the generated security key into the device you want to connect.  If network does not operate normally,check the security key again. An incorrect security key may cause a malfunction.
Network			<ul> <li>Soft AP may not be available if it is not supported by the model.</li> <li>Maximum number of devices that can be connected: 4 devices.</li> <li>Bitrate: 10 Mbps/device.</li> <li>The specifications above are based on our in-house testing. Actual performance may vary depending on your wired/wireless network environment.</li> </ul>
	SmartHub Model Setting		Set Smart Hub Model.
	SmartHub Setting		Set up Smart Hub.
	Service Discovery	On	If this option is set to On, you can share content with other devices, such as smartphones, in DLNA mode.
	Lan Out	OFF	Enable/disable LAN Out. When enabled, the TV can work as a wired router for other network devices.
	VLAN ID		Create separate VLAN groups. A 3-digit number can be entered between 1 and 255 for the VLAN ID.
	Solution VLAN ID		When VLAN is used, set a VLAN ID to be assigned to a Solution (such as SYNC, H.Browser etc.).
	Device VLAN ID		Set a VLAN ID to be assigned to external devices connected to the LAN OUT port.
	Widget Mode	ON	Widget Mode On/Off.
	Solution Type	Vendor Server	Select type of solution (Vender Server/ SINC Server).
	Server URL Setting		Set server URL.
Widget	License Server IP Setting		Set server IP.
Solution	IPTV Mode	ON	IPTV mode On/Off.
	Virtual Standby	OFF	Virtual Standby mode On/Off.  When Virtual Standby is On, TV power consumption will be 9.5W to 17.4W (Depending on the size of the TV screen).
	Room Num Setting		Set Room Number.
Virtual Standby	Virtual Standby Mode	OFF	TV can supply the main feature in the standby mode if The TV mode is set to the Virtual Standby mode.  ON: The Virtual Standby mode is enable.  OFF: The Virtual Standby mode is disable.  When Virtual Standby is On, TV power consumption will be 9.5W to 17.4W (Depending on the size of the TV screen).
	Reboot Time		This Feature can set the Reboot interval of TV after TV enters Virtual standby Mode.

Hotel TV Function			Description of the second of t
Category	Item	Initial value	Description
			Delete Device List in when power on or off.
	Factory Lock	OFF	ON: The password is needed before entering factory menu.
			OFF: disable this feature.
			Enable/disable Password Popup. If this option is set to OFF, the TV will not display
	Password Popup		the password input popup window when entering the Factory menu. If set to ON,
			the password input popup window appears.  If this option is enabled, a popup input box appears which asks for an 8-character
			security password. The admin must enter a password before applying or updating
	Password Input		security preferences. After the correct password is entered, options such as
			Password Setting, Password Reset and Security Mode are available.
Security Mode	Password Setting		User can change the password.
	Password Reset		Password is reset to "00000000".
			Security Mode provides password protected administrative functionality to enable or disable features of Hospitality TV, such as HDMI, USB and TTX. Use this option
	Security Mode		to turn security mode on or off. After turning on security mode, options such as
			"USB," "HDMI" and "TTX Security" are automatically enabled in the security sub-
			menu. "USB to TV cloning" and "TV Reset" will be disabled in the Hospitality Menu.
	USB		Enable/disable USB access. When disabled, access to USB media is blocked.
	HDMI		Enable/disable HDMI access. If disabled, Anynet, HDMI source, HDMI type External Channels will not be accessible to the user.
			If this option is disabled, the TTX feature will not work when the TTX button is
	TTX Security		pressed on the remote control.
			Configures DRM support.
			OFF: Turns off DRM support.
DRM	DRM Mode	OFF	LYNK DRM: Select to turn on S-LYNK DRM CAS support only.
			Pro:idiom: Select to turn on Pro:Idim CAS support only.
			LYNK DRM,PI: Select to have the TV support S-LYNK DRM CAS and Pro:Idiom CAS.
			Enter Self Diagnosis Menu.
			Picture Test: Use to check for picture problems. If the problem appears in the
	Self Diagnosis for TV		test picture, select Yes and follow the directions on the screen.
	Sett Blagnosis for 14		• Sound Test: Use the built-in melody sound to check for sound problems. If the
			problem occurs during the test, select Yes and follow the directions on the
			screen.  HD Function Check Menu On Executing Item Below OSD is displayed Proldiom DTV
			Channel Key Loss: Ok/Failure (Hotel US) STB SI Vendor
			Setting: SI Name Ok/Failure
	Self Diagnosis for		Bathroom AMP : Ok/Failure (Hotel EU)
	HTV		RTC : Ok/Failure (Hotel EU)
6 1			PC Audio Test : Ok/Failure
System			PC Self Test : Ok/Failure
	SW Update		SW USB Update function
	Service Pattern	OFF	Same function with SVC Service Pattern
			ON: TV speaker sound will be mute. Sound will come out through HDMI.
	Sound Bar Out	OFF	You must connect the Sound Bar to hear the sound.
			OFF: Sound will come out through TV speakers normally.
	Contact Samsung		Display the web site of related Samsung service center, software version, and Mac
			address information.  When the TV is in standby mode, you can configure the settings of external LED.
	Standby LED	ON	ON: The LED is on.
	Standby LED	ON	ON: The LED is on.      OFF: The LED is off.
	TV Reset		Returns all settings on the TV to their factory defaults.
	I v Neset		Thetains att settings on the TV to their factory defaults.

# Welcome Message

The welcome message is used to display custom messages on the TV every time TV is turned on by a Guest in Hotel room.

- Welcome message settings are found in the Hotel Option Menu.
- Welcome message should be ON in order to display the message on power-on.



- A welcome message can be up to 25 characters and it can be edited by changing the text in the Hotel Service menu.
- The following is the list of characters supported by Welcome message:
  - Capital letters, from A-Z
- Welcome message can be edited by using the navigation, colour & enter key on the Remote in the "Edit Welcome Message" OSD.

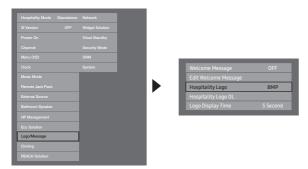


- The Welcome message and hotel logo cannot both be active at the same time.

# Hotel Logo

The Hospitality Logo function displays the Hotel's picture image when the TV is initially powered on.

- Hospitality Logo settings are the Hospitality mode menus.
- The Logo Download and Logo Display Menu items are enabled when you turn the Hospitality Logo option on.
- If there is a logo image stored in memory and the Hospitality Logo option is on, the Hospitality logo is displayed when the TV is turned on.
- The Hospitality logo is not displayed when the Hospitality option is off, even if its image has been loaded on the



### Hospitality Logo

- This option lets you choose whether the Hospitality Logo image is displayed or not.
- Initial value is OFF.
- Can be set to OFF or ON.
- When set to ON, the Logo Download and Logo Time Display menu items become accessible.

### Hospitality Logo DL

- This option lets you download the logo image to the TV's memory from a USB device.
- A wait message appears while the image is being copied to the TV.
- A "Completed" message appears when the copy operation finishes successfully.
- The word "Failed" appears if the copy operation was unsuccessful.
- No USB appears if no USB device is connected.
- No File appears if there is no file to copy on the USB device or the file is in the wrong format must be a BMP file. If No File appears and there is a logo file on the USB device, check the file format.

### Logo File Format

- The TV supports only BMP and AVI format.
- The file name must be samsung.bmp or samsung.avi.
- The maximum resolution of the BMP format is 960 x 540.
- The maximum file size for AVI format is 30MB.
- The TV does not change the size or scale of the image.

# **USB Cloning**

USB Cloning is used to download user-configured settings (Picture, Sound, Input, Channel, Setup, and Hotel Setup) from one TV set and upload them to other TV sets.

All the user-defined settings from the TV (Master Set) can be copied to the USB device.

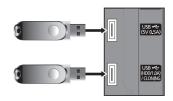
- After cloning, certain features are applied when the TV is turned on again.
- Clone TV to USB: This copies stored data from the TV set to the USB device.
- 1. Insert a USB drive into the USB port on the rear of the TV.
- 2. Enter the Interactive menu by pressing buttons in order.
  - MUTE → 1 → 1 → 9 → ENTER
- 3. Press the ▲ or ▼ button to select "Clone TV to USB", then press the ENTER button.
- 4. When the message "Clone TV to USB" is displayed, press the ENTER button.
- 5. You can verify USB cloning behavior.
  - In Progress: during copying data to USB.
  - Completed: copy was finished successfully.
  - Failed: copy was not finished successfully.
  - No USB: USB is not connected.





- 2. Enter the Interactive menu by pressing buttons in order: MUTE  $\rightarrow$  1  $\rightarrow$  1  $\rightarrow$  9  $\rightarrow$ **ENTER**
- 3. Press the ▲ or ▼ button to select "Clone USB to TV", then press the ENTER button.
- 4. When the message "Clone USB to TV" is displayed, then press the ENTER button.
- 5. You can Make sure USB cloning behavior.
  - In Progress: copying data to TV.
  - Completed: copy finished successfully.
  - Failed: copy did not finish successfully.
  - . No USB: USB is not connected.
  - No File: there is no file to copy on the USB.
  - Activate copying from USB to TV by pressing ENTER key for 5 seconds.
  - The Hotel TV product family does not support the CLONE function between models that supports the satellite / T2 operation and models that do not.

For fast, instant cloning during installation, insert a USB drive with master settings from the first TV and press the Enter key for 5 seconds.







## Setting Auto Initialize

When you clone settings from one TV to another, you clone both the guest side menu and hotel side menu settings: Picture, Sound, Input, Channel, Setup, and Hotel Setup). This lets you set nearly all of the menu values on your hospitality TVs to the same, standard settings. If you allow guests access to the guest side menus, for example the Picture menu, they can change the settings in those menus so they are no longer standard. If you set the Setting Auto Initialize function to on, the TV automatically restores (initializes) any guest-side menu values to the cloned, standard values when the TV is turned off and then turned on again. Note that Setting Auto Initialize works on cloned guest side menu values only. Settings which have not been cloned are ignored.

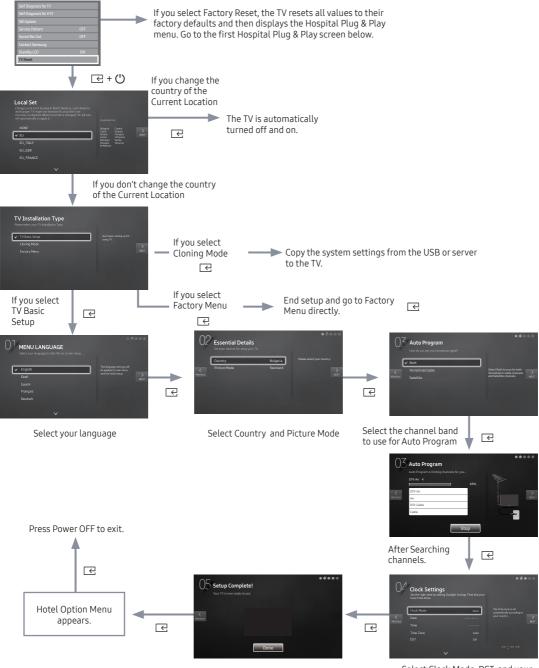
The table below lists the settings that are restored to their cloned values when you set the Setting Auto Initialize function to on.

Menu	Menu Item	Menu	Menu Item
	Picture Mode		Accessibility
	Backlight		Voice Guide
	Contrast		Audio Description
	Brightness		Subtitle
	Sharpness		Menu Transparency
	Colour		High Contrast
	Tint (G/R)		Enlarge
	Apply Picture Mode		Sports Mode
	Picture Size		Menu Language
	Picture Size		Smart Control Settings
	Zoom/Position		Motion Sensitivity
	4:3 Screen Size		Touch Sensitivity
	Auto Adjustment		Onscreen Remote Size
	PC Screen Adjustment		Voice Control
	Coarse		Language
	Fine		Use TV Voice
	Position		Voice Gender
	Image Reset		Device Manager
Picture	PIP		Keyboard Settings
	Advanced Settings		Mouse Settings
	Dynamic Contrast		Time
	Black Tone Flesh Tone		Clock
	RGB Only Mode	System	Sleep Timer
	Colour Space		Wake-up Timer
	White Balance		Eco Solution
	Gamma		Energy Saving
	Motion Lighting		Eco Sensor
	Picture Options		No Signal Power Off
	Colour Tone		Auto Power Off Smart Security
	Digital Clean View		Smart Security Smart Security
	MPEG Noise Filter		Scan
	HDMI Black Level		Isolated List
	Film Mode		Allowed List
	LED Clear Motion		Settings
	Picture Off		Auto Protection Time
	Reset Picture		Change PIN
	Sound Mode		General
	Sound Effect		Game Mode
	DTS TruSurround HD		Sound Feedback
	DTS TruDialog		Boot Logo
	Equaliser		Anynet+ (HDMI-CEC)
	Speaker Settings		Anynet+ (HDMI-CEC)
Sound	Additional Settings		Auto Turn Off
Journa	DTV Audio Level		Search for Devices
	HDMI Audio Format		DivX® Video On Demand
	Audio Format		
	Audio Delay		
	Dolby Digital Comp		
	Auto Volume		
	Reset Sound		

### Plug & Play

Hotel Plug & Play automatically performs Hotel mode selection, country setup, clock setup and picture mode setup.

- Hotel Plug & Play is available only one time when power is first turned on.
- This is available after first setting up the TV and transferring Clone TV data to a USB drive.
- To use next TV, you only need to exit Hotel Plug & Play, connect the USB, then Clone the USB to TV.
- Depending on model and region, some menus may not exist.



#### LocalSet

- Initially highlighted: EU
- If you press the Enter key after selecting Change, you can change the country.
- If the country is changed, the TV automatically turns off and on.
- If you select the incorrect country, execute TV Reset again after entering the System section of the Hotel Menu.

#### • Menu Language OSD

- If you select Basic TV Setup from the "TV Installation Type" OSD, the "Menu Language" OSD appears.
- Initially highlighted: English
- If you press the Enter key, the "Picture Mode" OSD appears

#### • Picture Mode OSD

- Initially highlighted: Standard
- The TV displays the Picture Mode OSD where you can choose the Dynamic or a Standard Picture mode.

#### Auto Program OSD

If you press the Enter key, the TV automatically searches for channels.

#### • Set Clock Mode, DST(Daylight saving time), and Time Zone OSD

- Initially highlighted: Clock Mode: Auto, DST: Off, Time Zone: Eastern
- If the TV will be tuned to digital broadcast channels, and these channels transmit date and time information, set the Clock Mode to Auto. The TV will set the date and time automatically.
- If the TV will not be tuned to digital broadcast channels, set the Clock Mode to Manual, and then set the date and time on the TV manually.
- Set DST On or Off to apply or not apply daylight saving time to the TV.
- Select your time zone on the map that appears.

### Multi Code Remocon

Multi Code Remocon is a special transmitter which is designed to control each TV with one remote.

This is useful where there is more than one TV in a location, such as in a hospital. The set ID number is displayed in the source osd. It is possible to support up to 9 different remote key transmissions for multiple codes.

Each TV has an initial code of "0".

- The ID code can be set and reset in Analogue TV mode or PC mode. (not available in TTX channel or DTV channel.
- ID code can be from 0 to 9.
- Press the MUTE button and the RETURN button simultaneously for more than 7 seconds and then select the number button to set the code.
- Set ID OSD appears.
- The following words appear: "Remote control code is set to X. If you want to change the Remote control code, enter the chosen digit." X is the digit number.
  - This OSD displays until Exit is pressed.



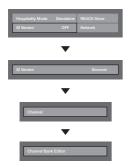
- For example, TV and Remote will be set to ID code #1 if the user presses #1.
- The following words appear: "Remote control code is changed to 1" At this point, the TV can be controlled only by the remote with the same ID code as the TV.
- TV, the following words will be displayed. "TV ID x"(x is the TV's ID)
- To reset the ID code, press the MUTE button and the EXIT button simultaneously for more than 7 seconds. When you stop pressing the buttons, the ID code for both the TV and Remote are reset to "0". "Remote control code is set to 0." appears.

## CH Bank Editor (Smovie TV Only)

Channel Bank Editor edits channels, with 3 different Bank Options. Depending on the Bank card, there are specific channels Hotel customers can enjoy.

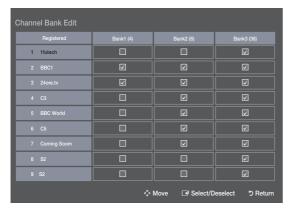
## Setting the CH Bank Editor under Stand-alone Mode

- 1. Enter the Hotel Standalone menu by "MUTE  $\rightarrow$  1  $\rightarrow$  1  $\rightarrow$  9  $\rightarrow$  ENTER"
- 2. Please select SI vendor: "Smoovie"
- 3. find the new menu option, "Channel Bank Editor"
- 4. Enter the "Channel Bank Editor"



<Depending on model and region, some menu items may not exist>

- 5. Edit the channel bank like below example.
- a. BANK1 (Free channel): Select the channel that will be used when remote doesn't have any card.
- b. BANK2 (Family Card Green): Select the channel that will be used when remote has a GREEN CARD.
- c. BANK3 (Adult Card Red): Select the channel that will be used when remote has a RED CARD.



## References of using SMOOVIE Remote Controller

- 1. If you select SMOOVIE as the SI Vendor, you should use the SMOOVIE Remote Controller.
- 2. With the Numeric keys of the remote controller, users can select only the BANK1 channel. To change the channel using the Green or Red Card, please use channel up/down keys.
- 3. For the Channel guide or the Channel list, users can see only BANK1 channel list.

## Channel Editor

Channel Editor edits channel number a and name.

Use Channel Editor to sort the channels as user-desired channel numbers.



<Depending on model and region, some menu items may not exist>

## Simple Steps for Editor under Stand-alone Mode

Step	Broad Outline		
1	Operate 'Channel Auto Store' in Hotel Option Menu		
2	Enter 'Channel Editor' in Hotel Option Menu		
3	Compile a table related to the final channel lists you want to have		
4	4 Rearrange channels with the TOOLS Button based on the table you compiled		
5	5 Press the EXIT or RETURN Button to exit.		
<pre><please details="" following="" refer="" the="" to=""></please></pre>			

## Smovie On sequence

		ed ( Air / Cable )		
Step	Mixed Channel Map On (Air and	Cable both used)	Only Air or Cable used	Only Air or Cable used
	If the tv starts with Hotel P&P	If P&P already done	If the tv starts with Hotel P&P	If P&P already done
1	Do the P&P, except channel store	Enter Hotel menu	Do the P&P all (Air or Cable auto tune)	Enter Hotel menu
2	After P&P TV shows hotel menu	Setup Mixed Channel Map On	After P&P TV will show hotel menu	Select channel type - ATV or ADTV for Air - CATV or CDTV for cable
3	Setup Mixed Channel Map On	TV power off & on	Select channel type - ATV or ADTV for Air - CATV or CDTV for cable	Select smoovie TV in Hotel menu
4	Make TV power off & on	Enter Hotel menu	Select smoovie TV in Hotel menu	Select Channel Setup
5	Enter Hotel menu	Select smoovie TV in Hotel menu	Select Channel Setup (can be skipped)	Select "Air" or "Cable" to auto tune
6	Select smoovie TV in Hotel menu	Select Channel Setup	Select "Air" or "Cable" to auto tune (can be skipped)	setup CH Bank Editor
7	Select Channel Setup	Select "Air + Cable" to auto tune	Setup CH Bank Editor	After power off & on, user can use TV
8	Select "Air + Cable" to auto tune	Setup CH Bank Editor	After power off & on, user can use TV	
9	Setup CH Bank Editor	After power off & on, user can use TV		
10	After power off & on, user can use TV			

	Smovie TV used( Satellite )					
Step	Mixed Channel Map On (Satel usedused)	lite and Air or Cable both	Only Satellite used			
	If the tv starts with Hotel P&P	If P&P already done	If the tv starts with Hotel P&P	If P&P already done		
1	Do the P&P except channel store	Enter Hotel menu	Do P&P all: Air or Cable auto tune)	Enter Hotel menu		
2	After P&P TV will show hotel menu	Setup Mixed Channel Map On	after P&P TV shows hotel menu	Select channel type - ATV or ADTV for Air - CATV or CDTV for cable		
3	Setup Mixed Channel Map On	Make TV power off & on	Select channel type - ATV or ADTV for Air - CATV or CDTV for cable	Select smoovie TV in Hotel menu		
4	Make TV power off & on	Enter Hotel menu	Select smoovie TV in Hotel menu	Select Channel Setup		
5	Enter Hotel menu	Select smoovie TV in Hotel menu	Select Channel Setup (can be skipped)	Select Satellite to auto tune		
6	Select smoovie TV in Hotel menu	Select Channel Setup	Select Satellite to auto tune (can be skipped)	Setup CH Bank Editor		
7	Select Channel Setup	Select Satellite to auto tune	Setup CH Bank Editor	After power off & on, user can use TV		
8	Select Satellite to auto tune	Setup CH Bank Editor	After power off & on, user can use TV			
9	Setup CH Bank Editor	After power off & on, user can use TV				
10	After power off & on, user can use TV					

#### Channel List

You can view channel information, All, TV, Radio, Data/Other, Analogue or Favourites 1-5.

- When you press the CH.LIST button on the remote control, Channel List screen displays immediately.
- All: Shows all currently available channels.
- TV: Shows all currently available TV channels.
- Radio: Shows all currently available radio channels.
- Data/Other: Shows all currently available MHP or other channels.
- Analogue: Shows all currently available analogue channels.
- Favourites 1-5: Shows all favourite channels.
  - If you want to view added favourite channels press the CH.LIST button and use the ◆ (Ch. Mode) button to move between Favourites 1-5.
  - Using the control buttons with the Channel List.

    - **(Ch. Mode / Channel):** Move to the All, TV, Radio, Data/Other, Analogue or Favourites 1-5.
    - When you select the Programme View in ⟨(Channel) menu, you can move to other channels using ((Channel))
    - 🗷 (Watch / Information): Watches the channel you selected. / Displays details of the selected programme.
    - \$\frac{1}{2}\$ (Page): Move to the next or previous page.

### How to use Schedule Viewing in Channel List

(digital channels only)

When you set the Schedule Viewing in Channel List, you can only set the programme in Programme View.

- 1. Press the CH.LIST button, then select a desired digital channel.
- 2. Press the TOOLS button, and then select Programme View. The programme list for that channel appears.
- 3. Press the ▲ / ▼ buttons to select the desired programme, then press the ENTER (Information) or INFO button.
- 4. Select Schedule Viewing, then press the ENTER → button when done.
- If you want to cancel Schedule Viewing, follow steps 1 through 3. Select Cancel schedule.

### Using Option Menu TOOLS 5

Set each channel using the Channel List menu options (Programme View, Edit Favourites, Lock/Unlock, Edit Channel Name, Edit Channel Number, Delete, Information, Sort, Edit Mode).

Option menu items may differ depending on the channel status.

- 1. Select a channel and press the TOOLS button.
- 2. Select a function and change its settings.
- Programme View: Displays the programme when a digital channel is selected.
- Edit Favourites: Set channels you watch frequently as favourites. Add or delete the selected channel in Favourites 1-5.
- 1. Select the Edit Favourites, then press the ENTER button.
- - One favourite channel can be added to several favourites among Favourites 1-5.
- Lock/Unlock: Lock a channel so that the channel cannot be selected and viewed.
  - This function is available only when the Channel Lock is set to On.
  - 🖎 The PIN input screen appears. Enter your 4-digit PIN. Change the PIN using the Change PIN option.
- Edit Channel Name (analogue channels only): Assign your own channel name.
- Edit Channel Number (digital channels only): Edit the number by pressing the number buttons.
  - Some areas may not be able to support Edit Channel Name and Edit Channel Number.
- Delete: You can delete a channel to display the channels you want.
- **Information**: Displays details of the selected programme.
- **Sort**: Changes the list ordered by channel number or channel name.
- Edit Mode: Select desired channels and edit them.

### Using Option Menu TOOLS 5

Set each channel using the menu options (Edit Favourites, Lock/Unlock, Delete, Deselect, Select All).

- 1. Press the TOOLS button in Channel List screen, then select the Edit Mode. A check box appears to the left of the channel.
- 2. Press the ▲/▼ buttons to select the desired channel, then press the ENTER → button. The (✓) mark indicates the channel you've selected.
  - You can select more than one channel.
- 3. Press the TOOLS button, then select a function and change its settings.
- Edit Favourites: Set the selected channels you watch frequently as favourites.
  - The Edit Favourites screen has five groups (Favourites 1, Favourites 2, etc.). You can add a favourite channel to any one of the groups. Press the ▲/▼ buttons to select a group.
- Lock/Unlock: Lock a channel so that the channel cannot be selected and viewed.
  - This function is available only when the Channel Lock is set to On.
  - 🖎 The PIN input screen appears. Enter your 4-digit PIN. Change the PIN using the Change PIN option.
- Delete: You can delete a channel to display the channels you want.
- Deselect: Deselect the selected channels.
- Select All: Select all the channels in the channel list.

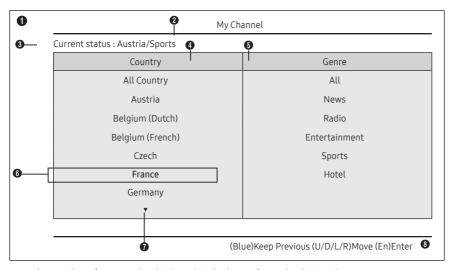
## My Channel

Determines the country and genre for the channels provided by the hotel, and if the user selects a country and genre, shows the corresponding channels.

- You must select the country first, or you can not set a genre.
- If you select the genre without adding any channels, the channel list displays all of the available channels.
- My Channel works in Standalone mode only.
- SI Vendor in Standalone mode: This does not work if Smoovie is selected.
- This is in the Hotel Options in Hotel Menu > Service Mode and can be turned on or off.
- The option only works when it is set to on.

### Channel Composition [Genre Mode]

Chandand	Category	Ch. Mode	Antenna Mode Activation		Description	
Standard			Air/Cable	Satellite	Description	
		All (Default)	0	0		
		News	0	0		
Hetel	Conso	Radio O	0	0	Provide genre channel mode by each country	
носес	Enter	Hotel Genre	Entertainment	0	0	that master has managed in factory mode.
		Sport	0	0		
			Hotel	0	0	



<sup>\*</sup> For the number of items to be displayed in the list, refer to the design document.

### Key Guide

Button	Action	Nav. Help	
BLUE	Returns to the screen. (Genre setup: Last Country & Genre)	Keep Previous	
ENTER	Selects an item.	Enter	
Ch. Up/Down	Move the highlight by page.	(No Guide)	
UP/DOWN	Navigates the each country, genre list. (in a circular manner.)	Mayo	
RIGHT	Selects the highlighted item, and then move the highlight to Genre section.	Move	
RETURN	Returns to the screen. (Genre setup: Last Country & Genre)	(No Guide)	
EXIT	Returns to the screen. (Genre setup: Last Country & Genre)	(No Guide)	

#### NOTE

- This section describes the layout of the Front UI that appears when the TV is turned on. (Factory Mode > Genre Mode: Enable)
- The genre is a sub-list for each country.
- The broadcast screen that was being displayed the last memorial channel.
- If user want to keep the previous country & genre channel map, press the 'BLUE', RETURN, and EXIT remotecontrol key to close the Front UI.

#### ETC.

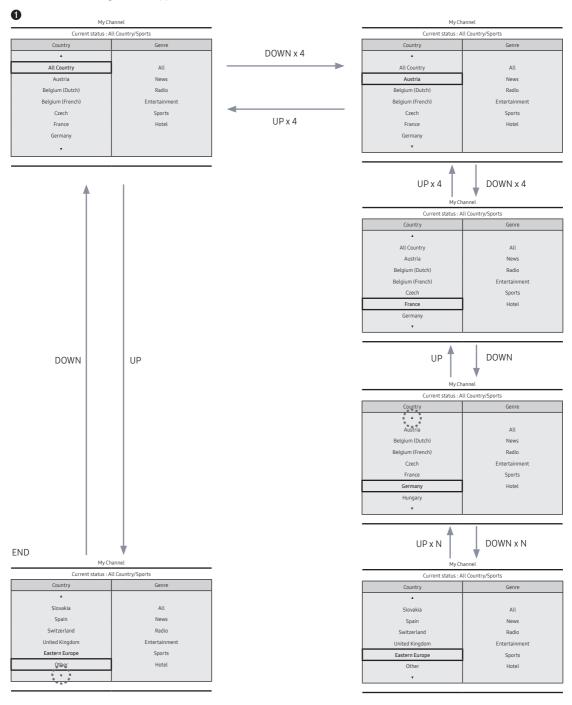
- Default Highlight: Last Memory items (Country, Genre)
- Timeout (60 sec)

#### **Elements**

No	Name	Description
1	Background Screen	Displays the last memorized channel that appears when TV is turned on.
2	Function Title	This is name of the function.
3	Current Status	Display current settings the Country/Genre.
4	Country Items	The item for the country list is displayed. Displays the last selected country.
5	Genre Items	The item for the genre list is displayed.  Displays available genre items by each country that master managed in factory mode. (always provide 'All' item)  Displays the last selected genre.
6	Highlight	If the item title is too long to be displayed within the area, Auto Text Sliding works.
7	Indicator	This is displayed when there is a previous or next page.
8	Nav. Help	The key guide is right-aligned.

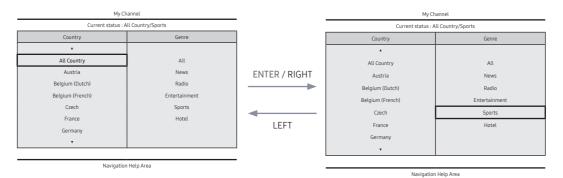
### Highlight Interaction [Country Items]

- This page is only to indicate possible interactions. It may not be exactly identical to actual screens.
- NOTE
  - Users can navigate the items in each country & genre list by pressing the up or down remote control keys.
  - Circular navigation is supported.

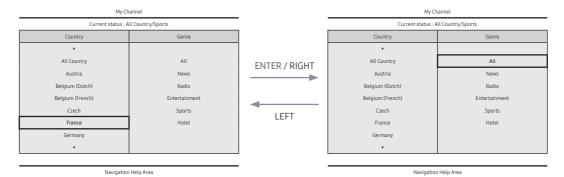


## Highlight Interaction [Default Genre]

• This page is only to indicate possible interactions. It may not be exactly identical to actual screens.



- The current selection of the country is highlighted.
- Default High-light: The current selection of the genre.

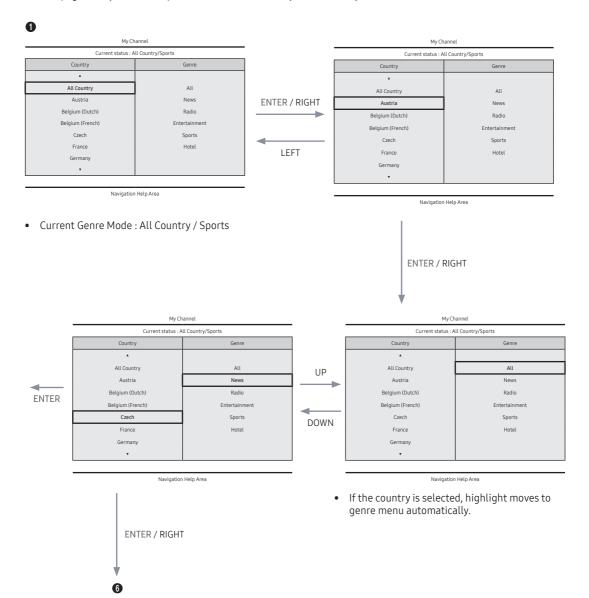


Seems source error, it should be read as "The other item of the county is high-lighted.". Please verify. (ex. France)

• Default Highlight : All

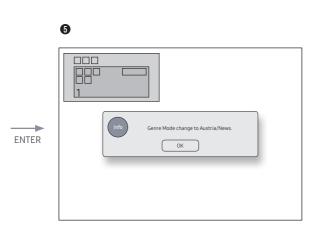
### Mode Change Interaction 1 (1/2)

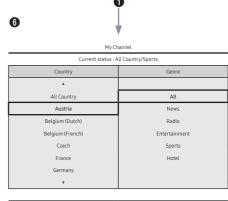
• This page is only to indicate possible interactions. It may not be exactly identical to actual screens.



### Mode Change Interaction 1 (2/2)

• This page is only to indicate possible interactions. It may not be exactly identical to actual screens.

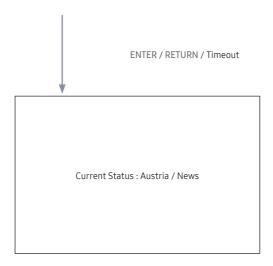




- The genre mode change complete message is displayed.
- Timeout(5 sec.)

Pressing the left key from the genre to country menu highlights an existing selected country

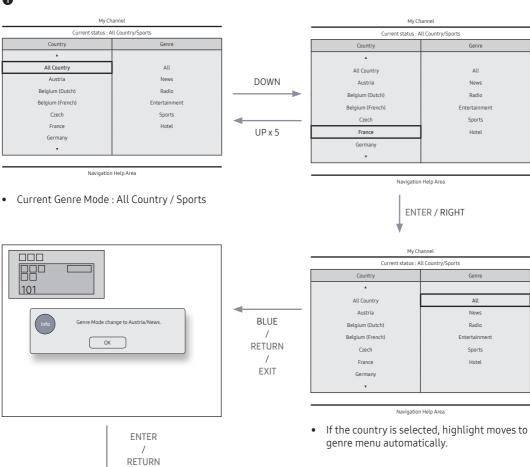
Navigation Help Area



### Mode Change Interaction 1 (1/2)

• This page is only to indicate possible interactions. It may not be exactly identical to actual screens.





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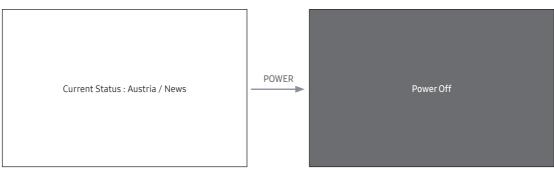
Current Status: Austria / News

/ Timeout

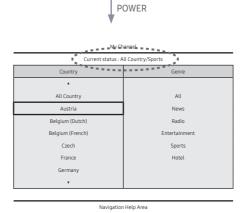
## Power On Scenario [Last Memory]

• This page is only to indicate possible interactions. It may not be exactly identical to actual screens.





• Current Genre Mode : All Country / Sports

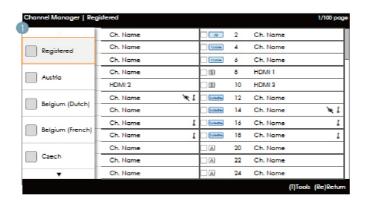


• Current Genre Mode: Austria / News

Genre Editor: This configures the genres of each of the hotel TV channels.

- This can be used through the Hotel Menu (Factory).
- Supported genres include News, Radio, Entertainment, Sports and Hotel.
- More than one genre can be selected for each channel at the same time. Country Editor (Channel Editor): This is the editor that configures the country for each of the hotel TV channels.
- Supported countries (20 countries): Austria, Belgium, China, Denmark, Finland, France, Germany, Greece, Italy, Japan, Netherlands, Norway, Portugal, Russia, Korea, Spain, Sweden, Turkey, USA
- If more than one channel is set to a country, the country is registered as a category and users can view the channels by country.
- More than one country can be set to a channel. If the user selects a category, only the channels corresponding to the country are displayed in the channel list.
- If any channel for which the country is set is selected from the channel list, the Edit Countries item is added to the Tools. Otherwise, the Add to Countries item is added to the Tools.
- \* If the corresponding function is executed, a country for the selected channel can be set or canceled.
- Front UI
- Provides the screen where the user can select a country or genre when the user turns the power on.

### Left Frame Layout



#### **Key Guide**

Button	Action	Nav. Help
ENTER	Selects or enters the corresponding Channel Browser area.	(No Guide)
RETURN	Selects or enters the corresponding Channel Browser area.	Return
UP/DOWN	Moves the highlight up or down.	(No Guide)
RIGHT	Moves the highlight to the Channel Browser area.	(No Guide)
INFO	Shows the Category Info.	(No Guide)
TOOLS	Shows the utility function menus.	Tools
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

#### NOTE

• This is a component of the Left Frame (Country Categories).

#### ♠ ETC.

· Default Highlight: 'The currently selected country'

### **Elements**

No	Name	Description
1		<ul> <li>When the user enters this screen, the currently selected default item is highlighted.</li> <li>The Country Icon + Category Name are provided. (If the highlight is in the Main Frame, only the icon is displayed.)</li> <li>Moving the highlight         <ul> <li>Pressing the up or down button moves the highlight.</li> </ul> </li> </ul>
		<ul> <li>If the items cannot be displayed on one page, up and down indicators are provided.</li> </ul>
		<ul> <li>Once the highlight is moved to a category, the channel list corresponding to the corresponding category is loaded to the Main Frame.</li> </ul>

## Left Frame [Country Categories]

Chandand	Category	Ch Mada	Antenna Mode Activation		Description
Standard		Ch. Mode	Air/Cable	Satellite	Description
	Original Tuned	Registered	0	0	Lists all the channels registered by the Auto Tune operation.
	Country	All Country	0	0	Provides the list of channels and sources
Hotel		Country 1	0	0	specified in the Registered Channels list.  • All Country is the sum of all channels
		Country 2	0	0	registered to each country. (This is only provided to end users.)
			0	0	

## Tools [Registered/Countries Categories]



Channel Manager > Channel Category > Tools > Info



- The items are displayed without 'Channel'.
- If the Registered/Country item in the Left Frame is highlighted, you can enable the corresponding window by pressing the 'INFO' remote control key.
- All countries are displayed.
- navigate country items by pressing the up or down key. Indicators are provided.

#### NOTE

- This is a definition of the Tools menu in the Left Frame Category.
- Only the Info item for each Register/Country is provided.

#### **Elements**

Category	Tools menu	Descriptions
Registered, Country	Information	Registered Channels. The number of channels of each country.

• The items are displayed without 'Channel'.

### **Error Cases**

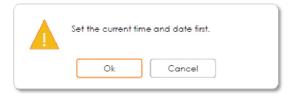


#### NOTE

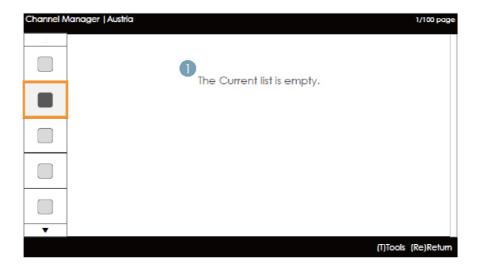
• This is the message for when there are no saved channels in the Registered Channels list.

#### Elements

No	Name	Description
1	Message	When entering the browser, if the Registered channels item is empty, a popup message is displayed which enables users to switch to the Auto Store (Programme) menu.  When both the time and the channel are not configured, and a user enters the Channel Manager, a message that allows the user to switch to the Auto Tuning (Auto Program) operation is displayed in the same way as above.



- This is the message when the time is not configured.
   If the time is not configured, the message is displayed in Factory Mode before entering the Channel Manager.



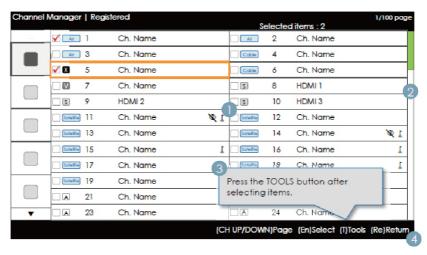
#### NOTE

• This is the component for when there are no channels registered to the country category.

#### Elements

No	Description	Description
		The message is displayed when the currently selected country does not contain any items.

### Main Frame [Channel Browser]



## Key Guide

Button	Action	Nav. Help
CH UP/DOWN	Moves the page.	Page
ENTER	Selects or enters the corresponding Channel Browser area.	Select
RETURN	Returns to the previous step (Factory Mode).	Return
UP/DOWN	Moves the highlight up or down.	(No Guide)
RIGHT	Moves the highlight to the Channel Browser area.	(No Guide)
INFO	Shows the Category Info.	(No Guide)
TOOLS	Shows the utility function menus.	Tools
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

### NOTE

- This is a component of the Main Frame (Channel Browser).
- The initial highlight is on the channel before entering Factory Mode or the external input.

### Elements

No	Name	Description	
1	Main Frame	Shows the channel or the source list of the currently selected category.	
2	Scroll Bar	Shows the position of the current page amongst the total amount of pages.	
3	Navigation Help Area	This is displayed whenever a user enters the Channel Manager. (If a user exits and then reenters the Channel Manager, it is displayed again.) This disappears when the timeout (5 sec.) is reached or a user presses a key.	
4	Navigation Help Area	The currently configured country information and the RED buttons are left-aligned. They are displayed and navigated by group graphically. The key guide is right-aligned.	

## Channel Common Elements [+ Icon-method]

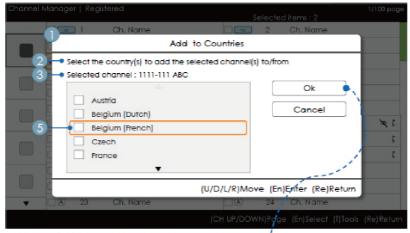
Channel list representation rules

Standard	Item	Construction	
	Digital channels	Check Box + Status Icon + Digital Channel Number + Channel Name     Channel number representation format: ###-### (The channel number is represented by '-'.)	
ATSC	Analog channels	Check Box + Analog Icon + Analog Channel Number + Channel Name     Channel number representation format: ### ('-' is not used to represent analog channel numbers.)	
DUD (CUELL)	Digital channels	<ul> <li>Check Box + Status Icon + Digital Channel Number + Channel Name</li> <li>Channel number representation format: ### (For the maximum length of the channel number, follow the regional specifications.)</li> </ul>	
DVB (CHEM)	Analogue channels	Check Box + Analog Icon + Analog Channel Number + Channel Name     Channel number representation format: ### (For the maximum length of the channel number, follow the regional specifications.)	

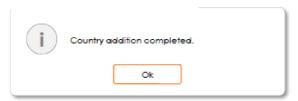
## Channel list icon representation rules

Item		Example		Pr	iority
Dynamic SI Icon	Channels deleted by Dynamic SI	□ X NNNNNNNN CH. NAME	Channels that have been de the Dynamic SI but not by the	,	1
	Channels added by Dynamic SI	□ ✓ NNNNNNNN CH. NAME	Channels that have been ac Dynamic SI but not by the u		2
Analogue Channel Icon		A NNNNNNNN CH. NAME (The dited channel name.)	The Analogue channel icon displayed.	is	3
Source Channe	el Icon	□ S NNNNNNNN CH. NAME	• A channel that is an input s	ource.	4
Antenna Icon	Air	Air NNNNNNNN CH. NAME	Represents the live channels from the antennas. The Air, Cable or Satellite antenna icons are displayed with the lowest priority.		
	Cable	Cable NNNNNNNN CH. NAME			5
	Satellite	Satellite NNNNNNNN CH. NAME			
Scrambled Channel Icon		NNNNNNN CH. NAME O-	• The scrambled channel icon. This appears for the Satellite antenna.		-
Video Mute		• In a muted channel, the audio and char information is provided.		ind channel	-

### Add to Countries / Edit Countries (1/2)



• Channel Manager > Browser > Tools > Add to Countries



## Key Guide

Button	Action	Nav. Help
ENTER	Selects the highlighted item.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
UP/DOWN	Moves the highlight over country items.	Move
LEFT/RIGHT	Moves the highlight.	Move
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

#### NOTE

- This is the definition of Add to Countries.
- The highlighted channel or more than one selected channel is added to the Country category.

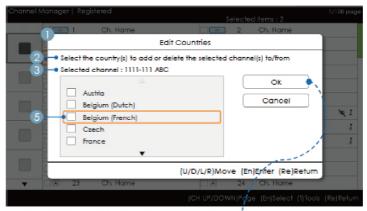
#### ETC.

• Timeout (60 sec)

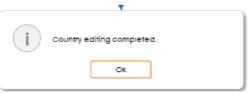
### Elements

No	Name	Description	
1	Add to Countries Window	<ul> <li>If there are no channels that have been registered to the count list in the selected channels, "Add to Countries" is displayed as the title.</li> <li>A check box is displayed depending on whether the country the was selected when entering the screen is registered or not.</li> </ul>	
2	Guide		
3	Selection Info	The serial number or name of the selected channel. The channel name is displayed when one channel has been selected: Selected channel: NNNN-NNN ABC The number of selected channels is displayed when more than one channel has been selected: Selected Channels: N	
4	Complete Message	• The message is displayed after the completion of the operation (This message is always displayed if the OK button is selected.)	
5	Selection Mark	<ul> <li>How to identify the meaning of multiple channel selection marks</li> <li>✓: When all of the items have been registered.</li> <li>✓: When only part of the items have been registered.</li> <li>✓: When none of the items have been registered.</li> </ul>	

### Add to Countries / Edit Countries (2/2)



• Channel Manager > Browser > Tools > Add to Countries



### Key Guide

Button	Action	Nav. Help
ENTER	Selects the highlighted item.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
UP/DOWN	Moves the highlight over country items.	Move
LEFT/RIGHT	Moves the highlight.	Move
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

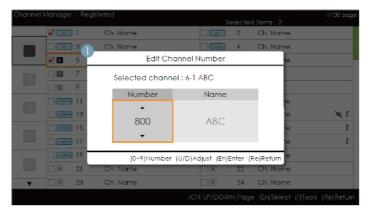
#### NOTE

- This is the definition for Edit Countries.
- The highlighted channel item or more than one selected channel item is added or deleted from the Country category.
- Timeout (60 sec)

### Elements

No	Name	Description
1	Add to Countries	<ul> <li>If there is a registered channel among the selected channels, Edit Countries is displayed as the title.</li> <li>A check box is displayed depending on whether the selected country is registered or not.</li> </ul>
2	Guide	
3	Complete Message	• The message is displayed after the completion of the operation. (This message is always displayed if the OK button is selected.)

## Edit Channel Number [Swap Type]



Channel Manager > Browser > Tools > Edit Channel Number

### Key Guide

Button	Action	Nav. Help
ENTER	Applies the changes and closes the window.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
▲/▼	Changes the channel number of the selected channel.	Adjust
0~9	Enters a digit.	Number
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

#### NOTE

- This is the function that changes the channel number. (Swap Type)
- Channel numbers can be changed in all the channel lists and changes are applied to all the channels.
- If the new channel number has not been allocated to another channel, the channel number is updated to the new channel number and the list is sorted again in ascending order of channel number.
- If the new channel number has already been allocated to another channel, follow the Hotel specifications.

#### ♠ ETC.

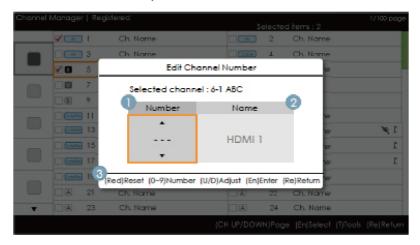
• Vertical circulation is supported.

#### **Elements**

No	Name	Description
1	Edit Channel Number Window	Both the numeric keys and the Up/Down keys are supported. Selected Channel: Shows the currently selected channel name. Number: Shows the new channel number. (The currently allocated channel name is also displayed.) Name: Shows the currently allocated channel name. (If there are no channels, it is displayed as "(Empty)".): If there is a channel but it does not have a name, the name is represented as "".
2	Warning Message	If an already allocated channel is selected  If the new channel number has already been allocated to another channel, the confirmation message pops up. (Refer to the figure below.)  If the user wants to change the channel number to one that has already been allocated to another channel, the channel numbers are swapped and saved.



### Edit the Channel Number [External Input] (3/3)



• Channel Manager > Browser > Tools > Edit Channel Number

### Key Guide

Button	Action	Nav. Help
RED	If a user presses the button, the channel number is initialized.	Reset
ENTER	Applies the changes and closes the window.	Enter
RETURN	Cancels or returns to the previous screen (Tools).	Return
<b>▲/▼</b>	Changes the channel number of the selected channel.	Adjust
0~9T	Enters a digit.	Number
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

### NOTE

- This function allocates an external input source to a channel number. (The changes are applied to all the channels.)
- If the new channel number has already been allocated to another channel, follow the Hotel specifications.

#### ETC.

- Default Highlight: Channel number area.
- Vertical circulation is supported.
- Timeout (60 sec)

### **Elements**

No	Name	Description					
1	Channel Number Area	<ul> <li>The channel number area.</li> <li>Both the numeric keys and the Up/Down keys are supported.</li> <li>If no value is allocated, as many '-' are displayed as the number of digits.</li> </ul> <ul> <li>A</li> <li>B</li> <li>B</li> <li>C</li> <li>C</li></ul>					
2	Source Name	External input name     Items that cannot be configured are disabled.					
3	Nav. Help Area	If a user presses the red button, the channel number is initialized.					

### **Edit Channel Name**



• Channel Manager > Browser > Tools > Edit Channel Name

## Key Guide

Button	Action	Nav. Help
GREEN	Saves the changes and returns to the Channel Manager.	Done
ENTER	Saves the channel name and moves the cursor to the next field.	Enter
RETURN	Cancels and returns to the previous screen (Tools).	Return
<b>▲/▼/◄/</b> ▶	Navigates on the keyboard.	Move
0~9	Enters a digit.	(No Guide)
INFO	N/R	N/R
TOOLS	Closes the current window and displays the 'Tools' menu.	(No Guide)
EXIT	Cancels and returns to the previous step (Factory Mode).	(No Guide)

 <sup>■</sup> NOTE

• This is the definition of the keypad that is used for the Edit Channel Name function.

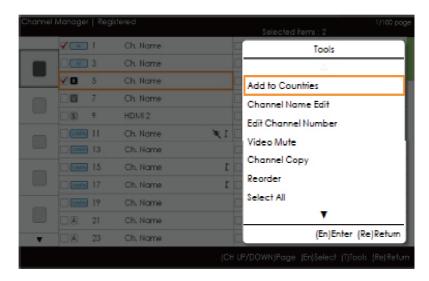
#### ETC.

• Timeout (60 sec)

#### Elements

No	Name	Description
1	Channel Name Edit Window	
2	Channel Name	<ul> <li>The cursor and the character that are currently being entered are in the same colour as the highlight.</li> <li>When the maximum number of characters is reached, the cursor disappears.</li> </ul>
3	Keyboard	For a detailed scenario, refer to the keypad design document.

### Tools [Edit Mode]

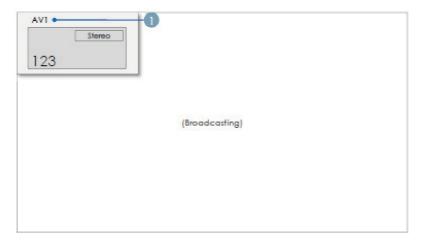


Edit I	Mode
Content Highlight (when the number of the checked item is 0 or 1)	When there is more than one checked item.
Add to Countries Edit Countries (when an already-registered item is checked.) Channel Name Edit Edit Channel Number Video Mute Channel Copy (Astra HD +) Reorder (Satellite) Select All Deselect All (this is only displayed when 1 or more items are selected) Delete	Add to Countries Edit Countries (when an already-registered item is checked.) Video Mute Reorder (Satellite) Select All Deselect All Delete

#### NOTE

- The position of the popup menu: The Tools menu for an item in the left column of the Channel List → This is displayed on the right. The Tools menu for an item in the right column of the Channel List → This is displayed on the left.
- If a user presses the TOOLS button when the highlighted item is not selected, the item is automatically marked as selected.
- For detailed specifications of each function, refer to the NEO Channel Manager.

### CH Banner [when a channel number is allocated to an external input]



#### NOTE

- The TV channel banner specifications are applied.
- When there is an unsupported item or there is no corresponding information, the item values are not displayed.
- The channel name is represented as the 'external input name'.

#### Elements

No	Name	Description
1	External Input Name	

The Channel List provides access to functions related to GenreTV.

- Country Mode
- Changes the genre mode.

## Mixed Channel Map

Mixed Channel Map is a function to mix Air, Cable and Satellite channels.

[Except for Aus, Singapore, NZ models]

- Mixed Channel Map should be ON in order to mix Air, Cable and Satellite channels.
- Use Channel Editor to sort the channels after turning on 'Mixed Channel Map' in Hotel Option Menu.

### Sound Bar

- Samsung Sound-Bars and Hospitality TV
  - Use Samsung Sound-Bars and Hospitality TV that support the ARC feature with HDMI. If you connect a compatible Samsung Sound-Bar to a compatible Samsung hospitality TV using a single HDMI cable, guests can listen to the TV's sound through the Sound-Bar.
  - Models supporting the ARC function are listed below:
    - Sound-Bars: HW-H450/H550/H570/H600/H7500 HW-J450/J470/J550 HW-K450/K550
- Setting the Sound-Bars to Hotel Mode
- 1. Set the following Hotel menu options:
  - Hotel option > System > Sound Bar Out = On.
  - Hotel option > Power On > Power On Volume EN = User Defined.
  - Hotel option > Power On > Power On Volume > Set greater than 0.
  - Hotel option > Power On > Max Volume > Set greater than 0.
- 2. Connect an HDMI cable from the HDMI OUT jack on the back of Sound-Bar to the HDMI3 port (supporting ARC) on the hospitality TV.
- 3. After the Sound-Bar is connected to the hospitality TV, when the TV turns on, the Sound-Bar automatically detects the TV, and then automatically switches to Hotel Mode.

#### Sound Bar Hotel mode functional characteristics:

- Power On/Off is synchronized with the TV
- · HDMI\_CEC defaults to On
- Functions through the "HDMI OUT" port only
- Disables the "Input mode" key on the VFD to prevent unexpected audio-source changes.
- Acquires adjustable Power On and Max Volume settings from the TV's Hotel option menu. The Sound-Bar's Power On Volume and Max Volume values, however, are ½ of the Power On Volume and Max Volume settings in the TV's Hotel option menu.

Example: If the TV's Power On Volume=20 and Max Volume=90, then the Sound Bar's Power On Volume=10 and Max Volume=45.

\*This function may differ depending on the model.

## Security mode

#### **Design Specifications**

- This is to restrict some functions such as TTX and external source (HDMI, USB) input in specific facilities such as a correctional facility.
- The Security menu is password-protected. Access to the Security menu is denied without the password.
- · Security Setting
  - The Security Setting can be set to ON or OFF.
  - The default is OFF.
  - Security Setting: If set to On, external source (HDMI, USB) input and the TTX function will be disabled.
- Password Setting
  - This allows users to change the password.
  - Users must input the current password, a new password, and confirmation of the new password.
- Password Reset
  - This is to reset the password.
  - The default password is "00000000".
  - Password Reset is visible only in the Factory menu by using the key combination of Info and Factory.
     It is not visible using the key combination of MUTE + 1 + 1 + 9 + ENTER.
- Security Setting: If set to On, the SIRCH function is not available.
- Factory Reset will not reset the Security Setting.

## **Installing the Wall Mount**

The wall mount kit (sold separately) allows you to mount the TV on the wall. For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. We do not advise you to do it yourself.

Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you select to install the TV on your own.

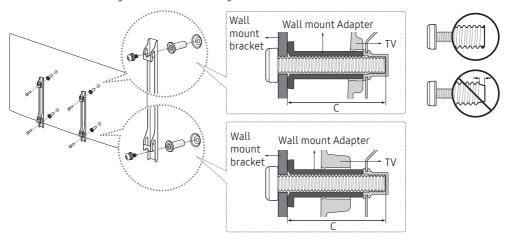
### Wall Mount Kit Specifications (VESA)

The Wall mount kit is not supplied but sold separately.

Install your wall mount on a solid wall, perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installing on a ceiling or slanted wall, it may fall and result in severe personal injury.

#### NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with VESA standard screw specifications.
- Do not use screws longer than the standard dimensions, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not fasten the screws too tightly. This may... damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not exceed a 15 degrees tilt when mounting this TV.



inches	VESA Spec. (A * B)	C (mm)	Standard Screw	Quantity
24EE690	75 x 75	9.3		
28EE690	100 V 100	19.5	M4	
32EE690	100 X 100			4
40EE690	200 V 200	43 ~ 45		4
49EE690	200 X 200	45 ~ 45	M8	
55EE690	400 X 400			



Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

### Securing the TV to the Wall



Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows

### To avoid the TV from falling

- 1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
  - You may need additional material, such as an anchor, depending on the type of wall.
  - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
- 2. Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
  - Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
- 3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.

#### NOTE

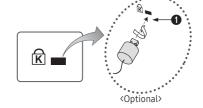
- Install the TV near to the wall so that it does not fall backwards.
- It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV
- Until the string before moving the TV.
- 4. Verify that all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

## **Anti-theft Kensington Lock**

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration, depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

To lock the product, follow these steps:

Please find the "\mathbb{\mathbb{G}}" icon on the rear of the TV. A kensington slot is beside the "₽" icon.



- 1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
- 2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
- 3. Insert the locking device into the Kensington slot on the product (1).
- 4. Lock the lock.
- These are general instructions. For exact instructions, see the User manual supplied with the locking device.
- The locking device has to be purchased separately.
- The location of the Kensington Lock may be different depending on the model.

## Specifications

Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity			
Model Name	HG24EE690	HG28EE690	HG32EE690
Display Resolution	1366	x 768	1920 x 1080
Stand Swivel	C	)°	20°/60°/90°
Screen Size (Diagonal)	24 inches	28 inches	32 inches
Sound (Output)	5W	′ x 2	10W x 2
Dimensions (WxHxD) Body With stand	561.8 x 349.1 x 65.2 mm 561.8 x 384.2 x 163.8 mm	643.4 x 396.5 x 62.9 mm 643.4 x 435.0 x 163.4 mm	730.4 x 433.8 x 54.6 mm 730.4 x 482.8 x 192.6 mm
Weight Without Stand With Stand	3.9 kg 4.1 kg	3.8 kg 4.2 kg	5.5 kg 7.1 kg
Model Name	HG40EE690	HG49EE690	HG55EE690
Display Resolution		1920 x 1080	
Stand Swivel		20°/60°/90°	
Screen Size (Diagonal)	40 inches	49 inches	55 inches
Sound (Output)	10W x 2		
Dimensions (WxHxD) Body With stand	917.6 x 539.2 x 54.2 mm 917.6 x 591.1 x 226.5 mm	1105.8 x 645.0 x 54.6 mm 1105.8 x 697.0 x 226.5 mm	1241.6 x 721.4 x 54.5 mm 1241.6 x 773.3 x 226.5 mm
Weight Without Stand With Stand	8.5 kg 11.4 kg	13.1 kg 16.0 kg	16.0 kg 18.9 kg

Design and specifications are subject to change without prior notice.

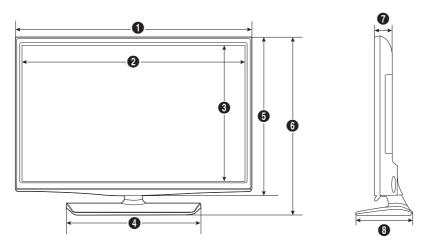
For power supply and power consumption information, refer to the label attached to the product.

<sup>🗞</sup> For information on Samsung's environmental commitments and product-specific regulatory obligations, e.g. REACH, WEEE, Batteries, visit http://www.samsung.com/uk/aboutsamsung/samsungelectronics/ corporatecitizenship/data\_corner.html

# Dimensions

## Front view / Side view

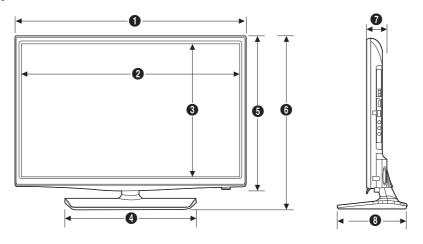
• HG24EE690



(Unit: mm)

	0	2	0	4	6	6	0	8
HG24EE690	561.8	523.3	295.2	226.7	349.1	384.2	65.2	163.8

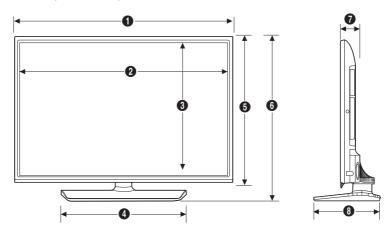
• HG28EE690



(Unit: mm)

	0	2	8	4	6	6	0	8
HG28EE690	643.4	609.5	347.0	311.4	396.5	435.0	62.9	163.4

• HG32EE690 / HG40EE690 / HG49EE690 / HG55EE690



(Unit: mm)

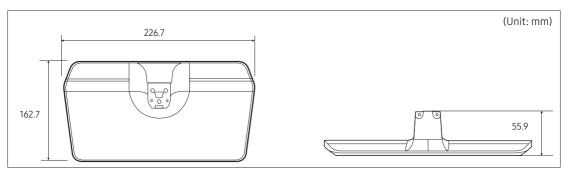
	0	2	8	4	6	6	0	8
HG32EE690	730.4	701.4	395.7	449.2	433.8	482.8	54.6	192.6
HG40EE690	917.6	888.6	501.1	556.5	539.2	591.1	54.2	226.5
HG49EE690	1105.8	1076.8	607.0	556.5	645.0	697.0	54.6	226.5
HG55EE690	1241.6	1212.6	683.4	556.5	721.4	773.3	54.5	226.5

## Jack panel detail / Rear view

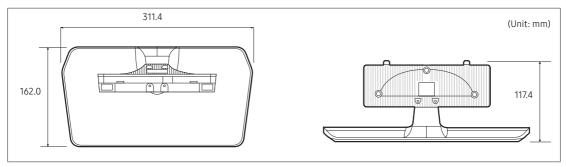
 $\ \, extstyle \triangle$  Detailed dimensions can be checked at Displaysolutions.samsung.com.

### Base Stand detail

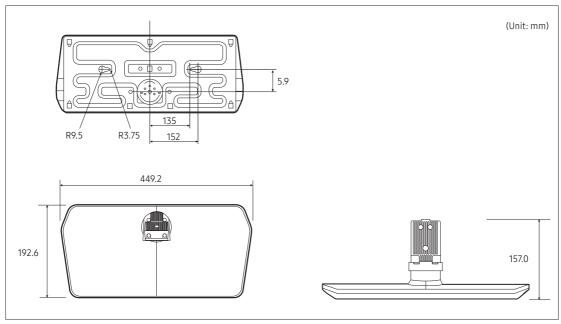
#### HG24EE690



### HG28EE690



HG32EE690 / HG40EE690 / HG49EE690 / HG55EE690



🔈 NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors.

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# **SAMSUNG**

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Country	Customer Care Centre 🏗	Web Site
AUSTRIA	0800-SAMSUNG (0800-7267864)	www.samsung.com/at/support
	[Only for Dealers] 0810-112233	
BELGIUM	02-201-24-18	www.samsung.com/be/support (Dutch)
		www.samsung.com/be_fr/support (French)
BOSNIA	055 233 999	www.samsung.com/support
BULGARIA	*3000 Цена в мрежата	www.samsung.com/bg/support
CD O ATLA	0800111 31, Безплатна телефонна линия	
CROATIA	072 726 786	www.samsung.com/hr/support
CZECH	800 - SAMSUNG (800-726786)	www.samsung.com/cz/support
5511111511	Samsung Electronics Czech and Slovak, s.r.o. V Parku 2323	
DENMARK	70 70 19 70	www.samsung.com/dk/support
FINLAND	030-6227 515	www.samsung.com/fi/support
FRANCE	01 48 63 00 00	www.samsung.com/fr/support
GERMANY	0180 6 SAMSUNG bzw. 0180 6 7267864*	www.samsung.com/de/support
	(*0,20 €/Anruf aus dem dt. Festnetz, aus dem Mobilfunk max. 0,60 €/Anruf)	
CYPRUS	8009 4000 only from landline, toll free	
GREECE	80111-SAMSUNG (80111 726 7864) only from land line (+30) 210 6897691 from mobile and land line	www.samsung.com/gr/support
HUNGARY	0680SAMSUNG (0680-726-786) 0680PREMIUM (0680-773-648)	http://www.samsung.com/hu/support
ITALIA	800-SAMSUNG (800.7267864)	www.samsung.com/it/support
LUXEMBURG	261 03 710	www.samsung.com/be_fr/support
MONTENEGRO	020 405 888	www.samsung.com/support
SLOVENIA	080 697 267 (brezplačna številka)	www.samsung.com/si/support
NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	www.samsung.com/nl/support
NORWAY	815 56480	www.samsung.com/no/support
POLAND	801-172-678* lub +48 22 607-93-33*	www.samsung.com/pl/support
	* (koszt połączenia według taryfy operatora)	
PORTUGAL	808 20 7267	www.samsung.com/pt/support
ROMANIA	*8000 (apel in retea) 08008-726-78-64 (08008-SAMSUNG) Apel GRATUIT	www.samsung.com/ro/support
SERBIA	011 321 6899	www.samsung.com/rs/support
SLOVAKIA	0800 - SAMSUNG (0800-726 786)	www.samsung.com/sk/support
SPAIN	34902172678	www.samsung.com/es/support
SWEDEN	0771 726 7864 (0771-SAMSUNG)	www.samsung.com/se/support
SWITZERLAND	0800 726 78 64 (0800-SAMSUNG)	www.samsung.com/ch/support (German)
117	0770 CAMCUNG (72)(70)	www.samsung.com/ch_fr/support (French)
JK	0330 SAMSUNG (7267864)	www.samsung.com/uk/support
EIRE	0818 717100	www.samsung.com/ie/support
LITHUANIA	8-800-77777	www.samsung.com/lt/support
LATVIA	8000-7267	www.samsung.com/lv/support
ESTONIA	800-7267	www.samsung.com/ee/support
TURKEY	444 77 11	www.samsung.com/tr/support