

SERIES **6**
670/677/678

LED TV

Installation manual

imagine the possibilities

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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.

Introduction

This TV B2B (Business to Business) model is designed for hotels or the other hospitality businesses, supports a variety of special functions, and lets you limit some user (guest) controls.

Operational Modes

This TV has two modes : Interactive and Stand-alone mode.

- Interactive mode : In this mode, the TV communicates with and is fully or partially controlled by a connected Set Back Box (SBB) or Set Top Box (STB) provided by a hospitality SI (System Integration) vendor. When the TV is initially plugged in, it sends a command that attempts to identify the SSB or STB connected to it. If the TV identifies the SBB or STB and the SBB or STB identifies the TV, the TV gives full control to the SBB or STB.
- Stand-alone mode : In this mode, this TV works alone without an external SBB or the STB.

The TV has a Hotel (Hospitality) Menu that lets you easily set its various hospitality functions. Please see pages 17 to 21.

The Menu also lets you activate or de-activate some TV and hospitality functions so you can create your optimal hospitality configuration.

Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 format images, stock or news bars or crawls) on the screen. Displaying still pictures continually can cause uneven screen wear, which will affect image quality. To reduce the chance that this effect will occur, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display a full screen image.
- Reduce brightness and contrast to help to prevent the occurrence of after-images.
- Frequently use all TV features designed to reduce image retention and screen burn-in. Refer to the proper user manual section for details.

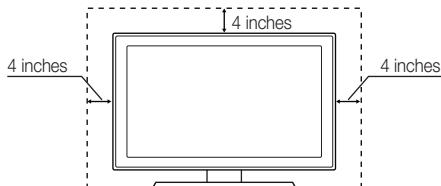
Ensuring Proper Ventilation

When you install the TV, maintain a distances of at least 4 inches between the TV and other object (walls, cabinet sides, etc.) to ensure proper ventilation. Failing to maintain proper ventilation may result in a fire or problems with the product caused by an increase in its internal temperature.

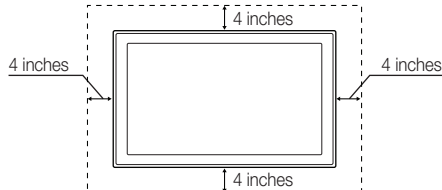
✎ When using a stand or wall-mount, use parts provided by Samsung Electronics only.

✎ Using parts provided by another manufacturer may cause difficulties with the product or result in injury caused by the product falling.

Installation with a stand.



Installation with a wall-mount.



Additional Information

✎ The appearance of the TV and its accessories may differ from the illustrations in this manual, depending on the TV.

✎ Be careful when you touch the TV. Some parts can be hot.

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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' color and shape may vary, depending on the model.
- The parts for the stand are listed under Stand Components on the following page.

List of Parts



- Remote Control (AA59-00817A) & Batteries (AAA x 2)



- Power Cord



- Safety Guide / Quick Setup Guide (Not available in all locations)



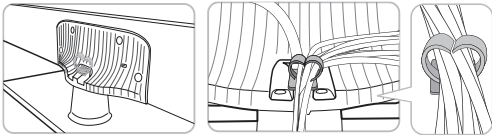
- Data Cable (depending on the model)



- Hotel Mount Kit (BN96-23066A)



- Holder-Wire stand



- Assembling the Holder Wire Stand

Installing the LED TV Stand

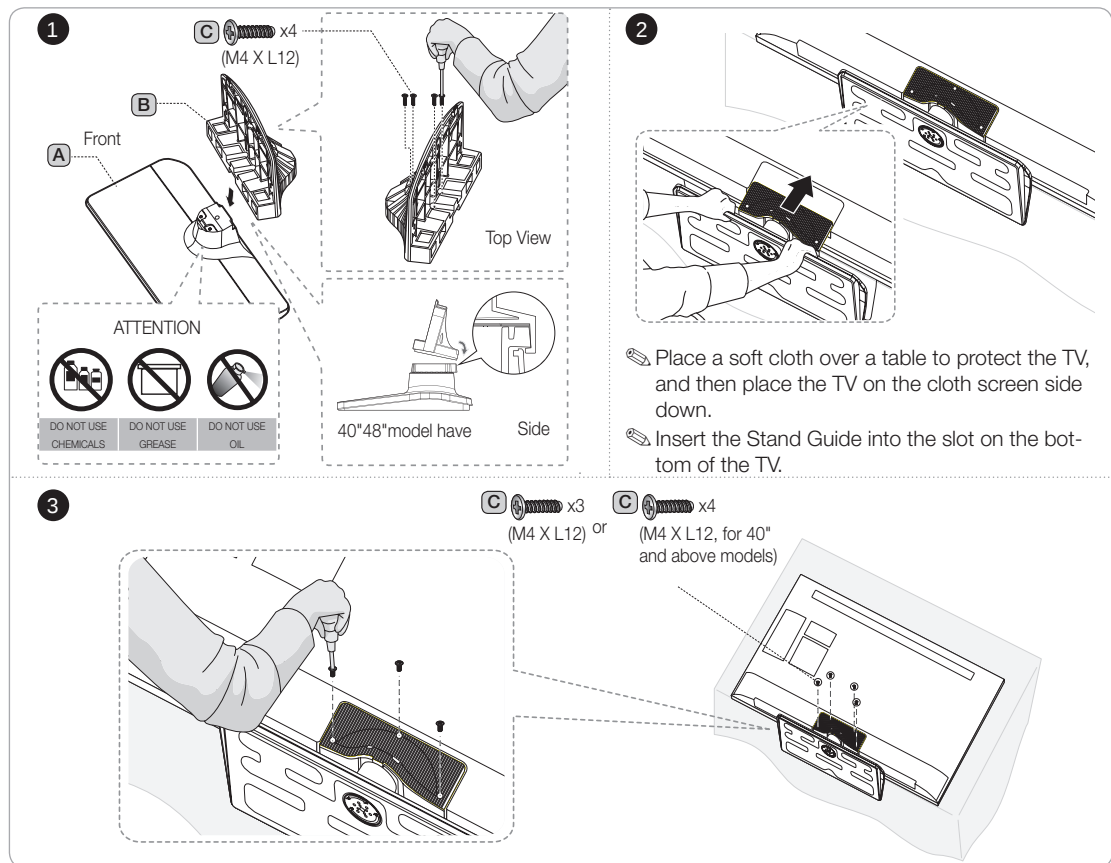
The 32" and larger LED TVs have swivel stands. You can configure these stands so that the TVs swivel 20 degrees left and right, 60 degrees left and right, or 90 degrees left and right. See page 6.

Components

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



- Stand (differs depending on the model)
- Guide Stand
- Screws



NOTE

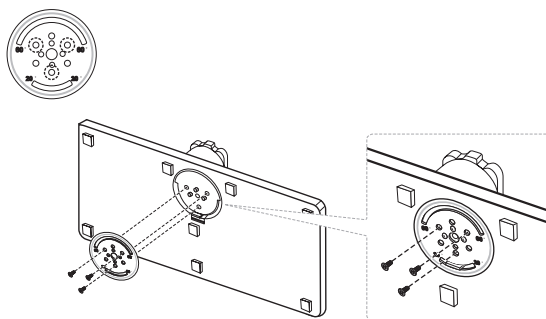
- Make sure to distinguish between the front and back of the Stand and Stand Guide when connecting them.
- Make sure that at least two people lift and move the LED TV.
- The number of screws may differ depending on the model.

Assembling the swivel stand (40 inch TVs or larger)

The 40" 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.

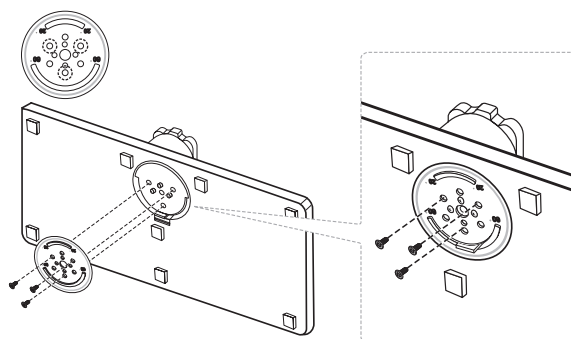
20° swivel

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 to the left.



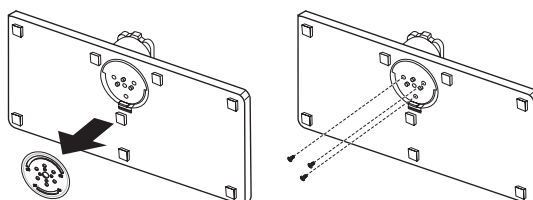
60° swivel

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 to the left.

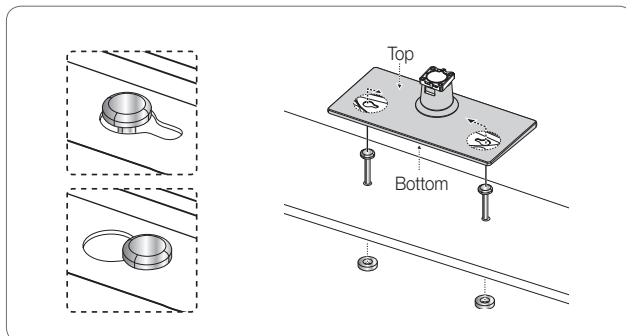


90° swivel

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 to the left.



Hotel Mount Kit



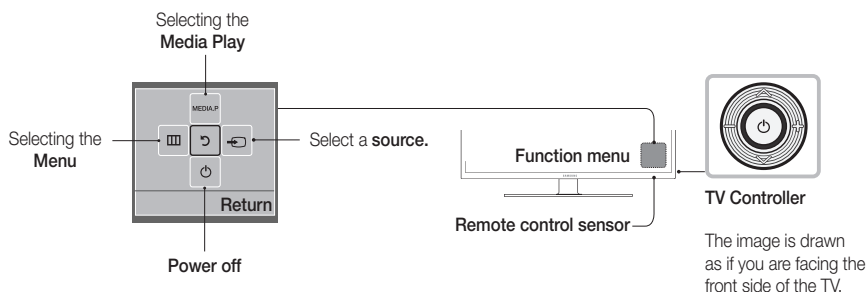
Affix the stand to a flat surface such as a dresser top, desk top, or entertainment center as shown.



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.

Using the TV's Controller

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



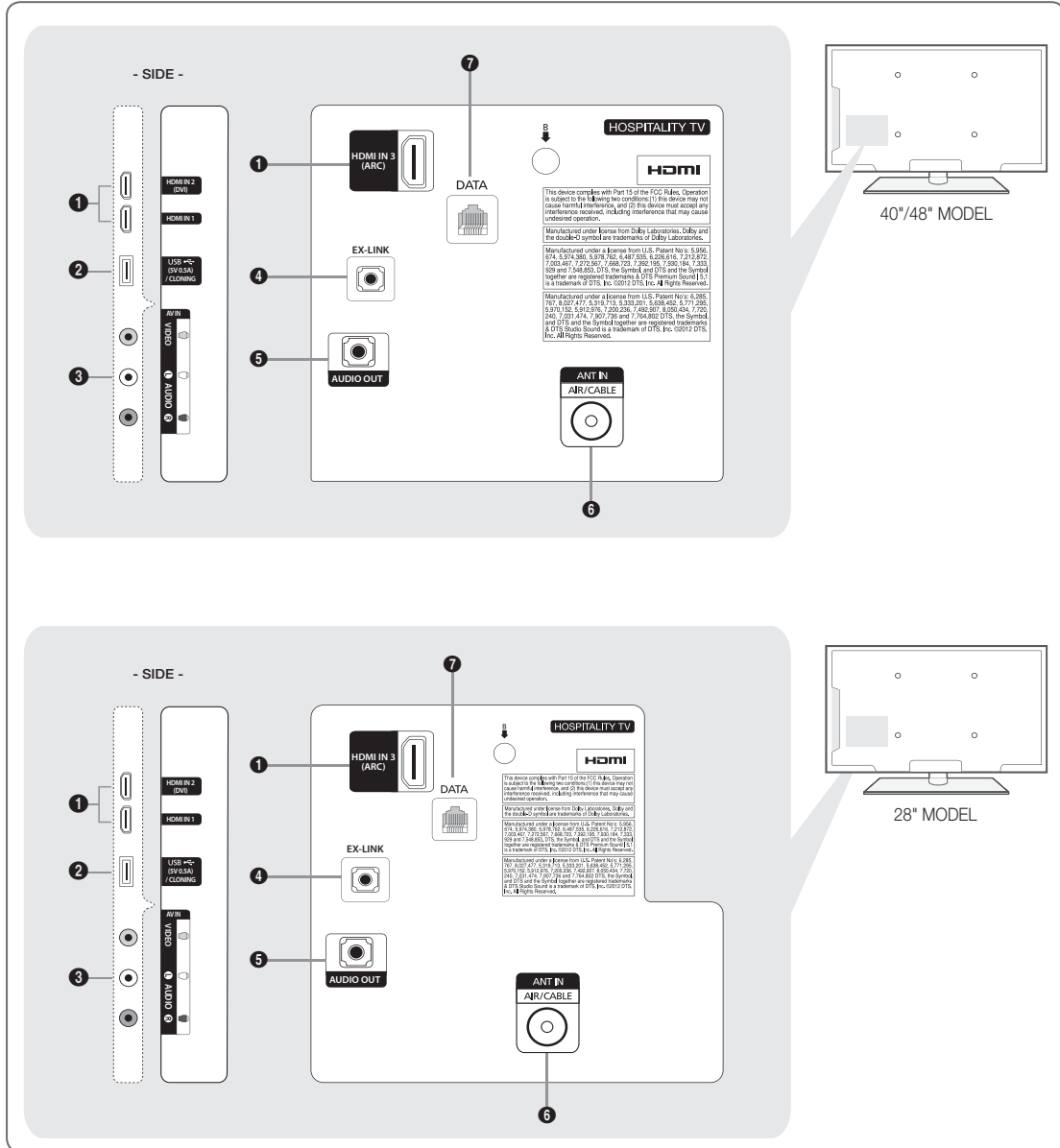
- The product color and shape may vary depending on the model.
- To exit the menu, press the Controller for more than 1 second.
- When selecting a function by moving the controller backwards/forwards/left/right, be sure not to press up on the controller. If you press up first, it will not operate correctly.

Standby mode

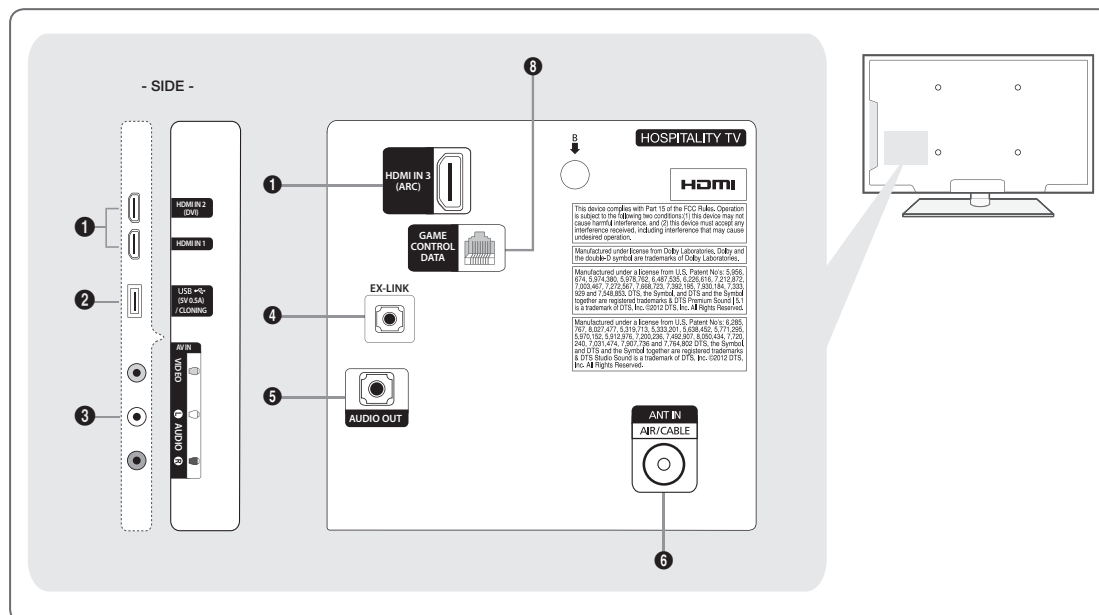
Your TV enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

The Connection Panel

HC670/HC677 Model



HC678 Model



✎ Whenever you connect an external device to your TV, make sure that the TV and the device are turned off.

✎ When connecting an external device, match the color of the connection terminal to the cable.

1 HDMI IN 1, 2 (DVI), 3 (ARC) : Connects to the HDMI jack of a device with an HDMI output.

✎ No separate sound connection is needed for an HDMI to HDMI connection. HDMI connections carry both audio and video.

✎ Use the **HDMI IN 2** 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 **DVI AUDIO IN** jack for audio. Some DVI or HDMI devices may not or should not need a **DVI AUDIO IN** connection for audio.

2 USB / CLONING

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

3 VIDEO / L-AUDIO-R

- Connect a VIDEO cable to an appropriate external A/V device such a VCR, DVD, or Camcorder.
- Connect audio cables to "L-AUDIO-R" on your TV and the other ends to corresponding audio out jacks on the A/V device.

4 EX-LINK : Connect this jack to the jack on the optional RJP (Remote Jack Pack). The RJP allows you to connect external devices (Camcoders, PCs, DVD players, etc) easily.

5 AUDIO OUT : Connects to the audio input jacks on an Amplifier/Home Theater.

6 ANT IN or 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 / A satellite receiver.

7 DATA

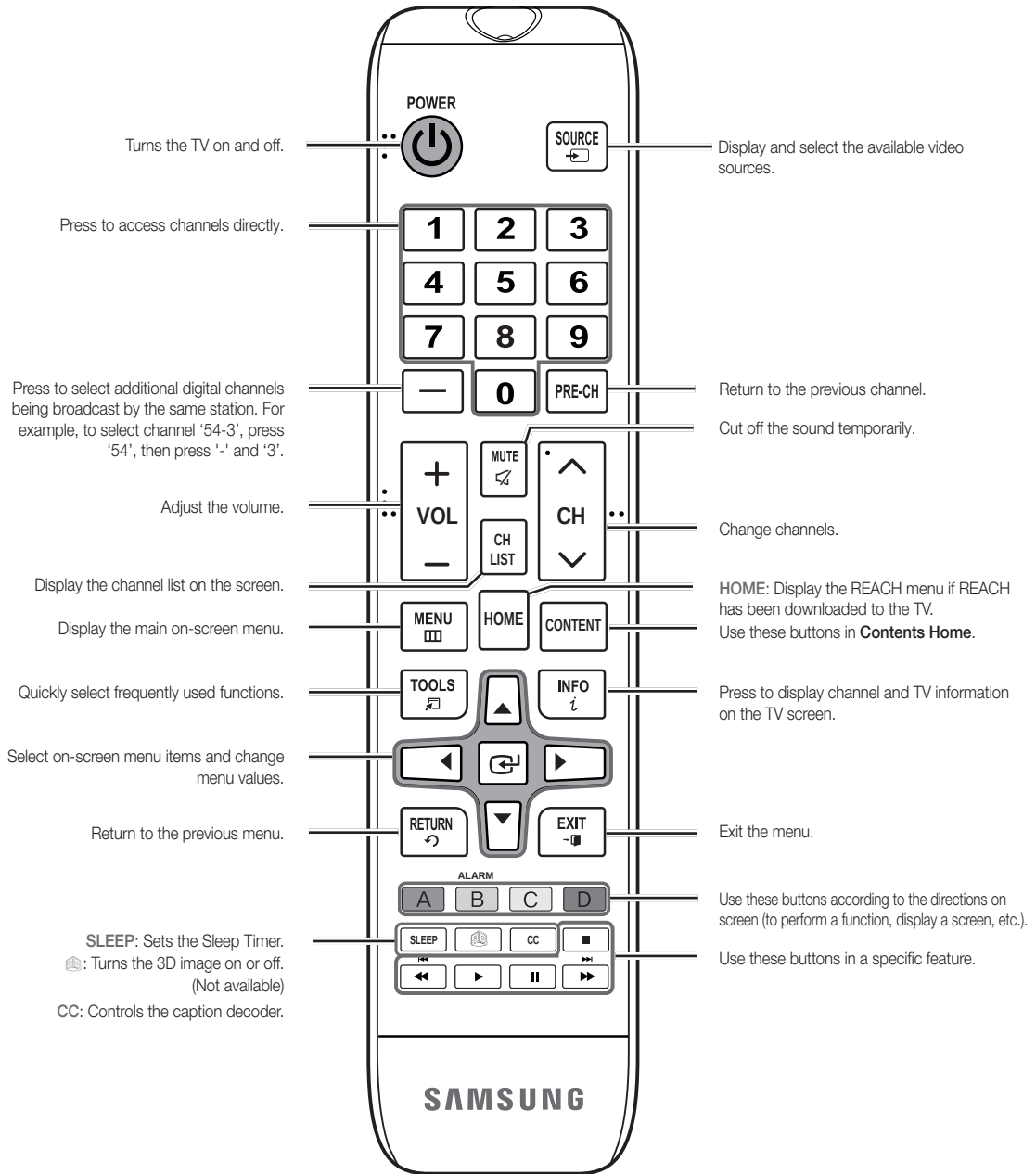
- Used to support data communication between the TV and the external SBB or STB.
- Connects using an RJ-12 type of plug.

8 GAME CONTROL DATA

- Used to connect the Lodgenet game controller in the Lodgenet system or support data communication between the TV and the external SBB or STB.
- Connects using an RJ-12 type of plug.

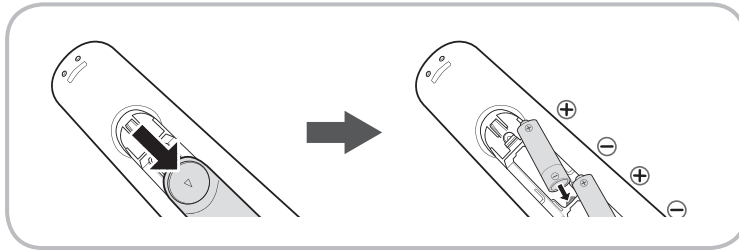
10 English

Using the TV's Controller



Installing the batteries (Battery size: AAA)

Rear of the Remote



✎ After you have installed the batteries, use a screwdriver to screw in the screw that holds the battery cover closed.

Installing Batteries into the Remote (battery size: AAA)

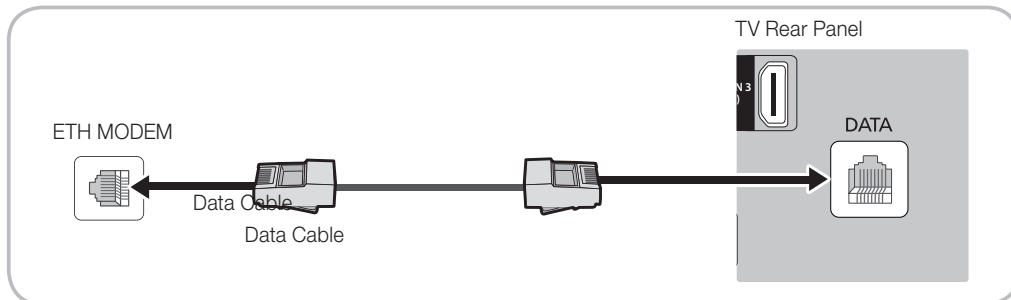
Match the polarity of the batteries to the symbol in the batter compartment.

✎ **NOTE**

- Use the remote control within 23~33 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using near fluorescent lights or neon signs.
- The color and shape of the remote may vary depending on the model.

Connecting the TV to the Lodgenet game controller or a STB of a SI vendor

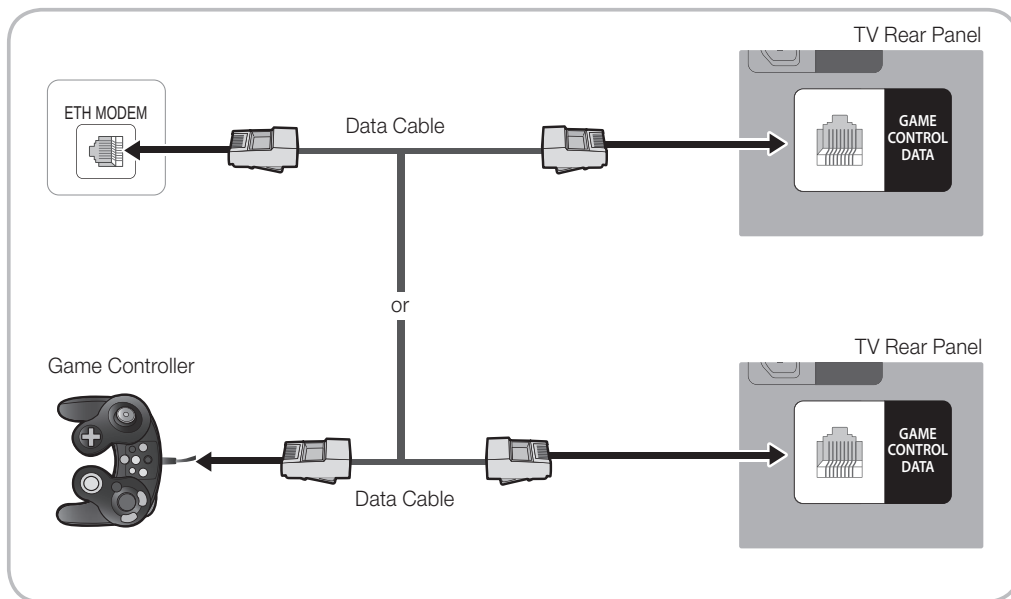
HC670/HC677 MODEL



1. Connect the **DATA** jack of the TV to the **ETH MODEM** jack of the STB (SBB) with the Data cable.

The "ETH MODEM" jack name that you connect the Data Cable to may differ depending on the SBB or STB type.

HC678 MODEL

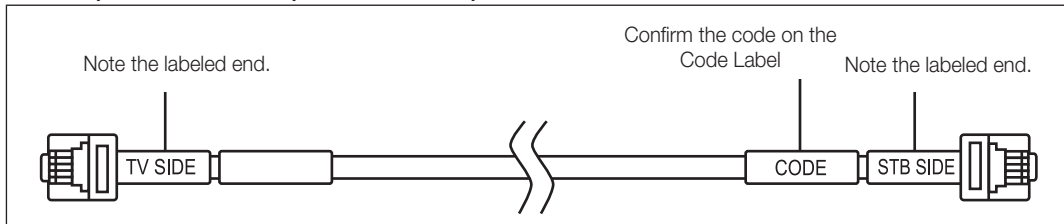


1. Connect the LodgeNet game controller to the TV's **GAME CONTROLLER/DATA** jack of the TV.
2. Connect the **GAME CONTROLLER/DATA** jack of the TV to the **ETH MODEM** jack of the STB (SBB) with the data cable.

The "ETH MODEM" jack name that you connect the Data Cable to may differ depending on the SBB or STB type.

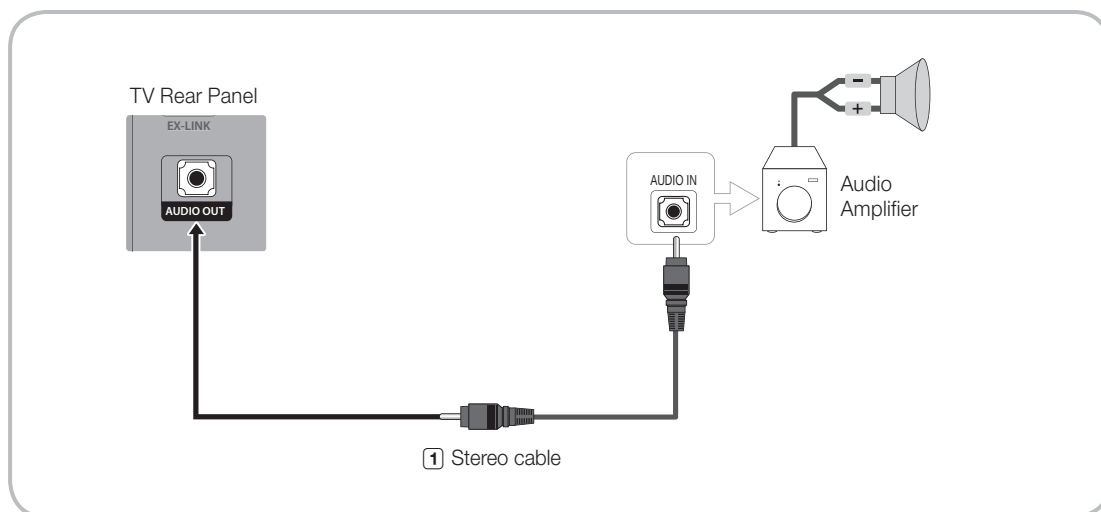
List of SI Vendors and Compatible Data Cables Supplied with the TV

- Confirm you are using the correct data cable for your SI vendor. Refer to the code label on the data cables.
- Contact your nearest dealer or your SI Vendor to buy the data cable not included in the TV.



SI Vendor	Cable code	Pin assign	Remark
Samsung OCC Enseo Guest-Tek	BN39-00865B		Only Provided with NB670 and NB677 models.
NXTV	BN39-01011B		
nStreams	BN39-01110A		
MTI	BN39-01011C		Only Provided with NB677 models.

Connecting the Audio Output to an Audio Amplifier

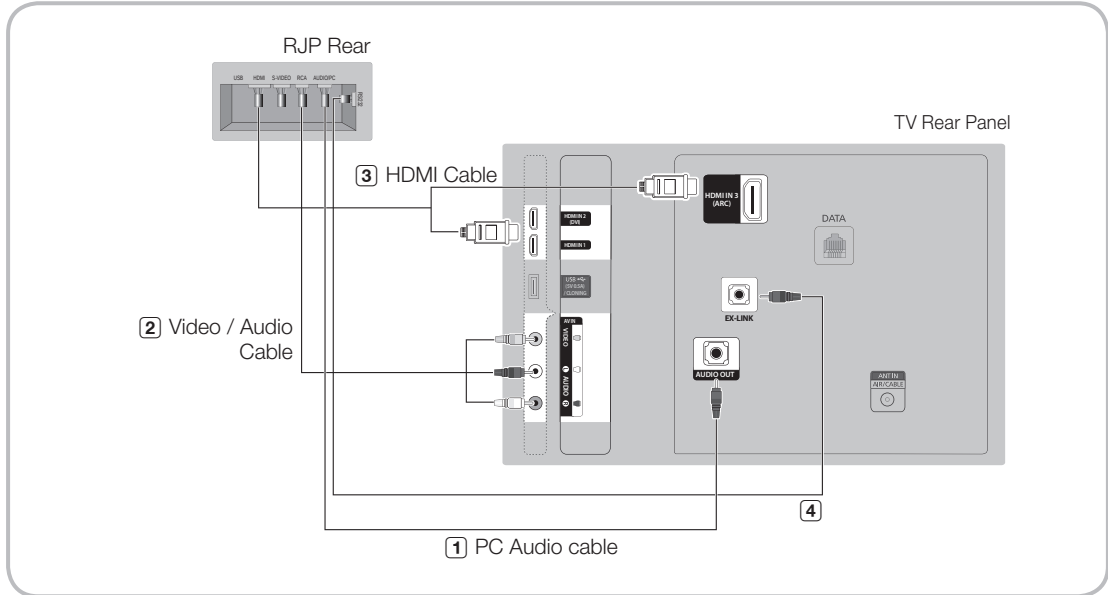


1. Connect the **AUDIO OUT** port of the TV to the Audio In port of an audio amplifier with a stereo cable.

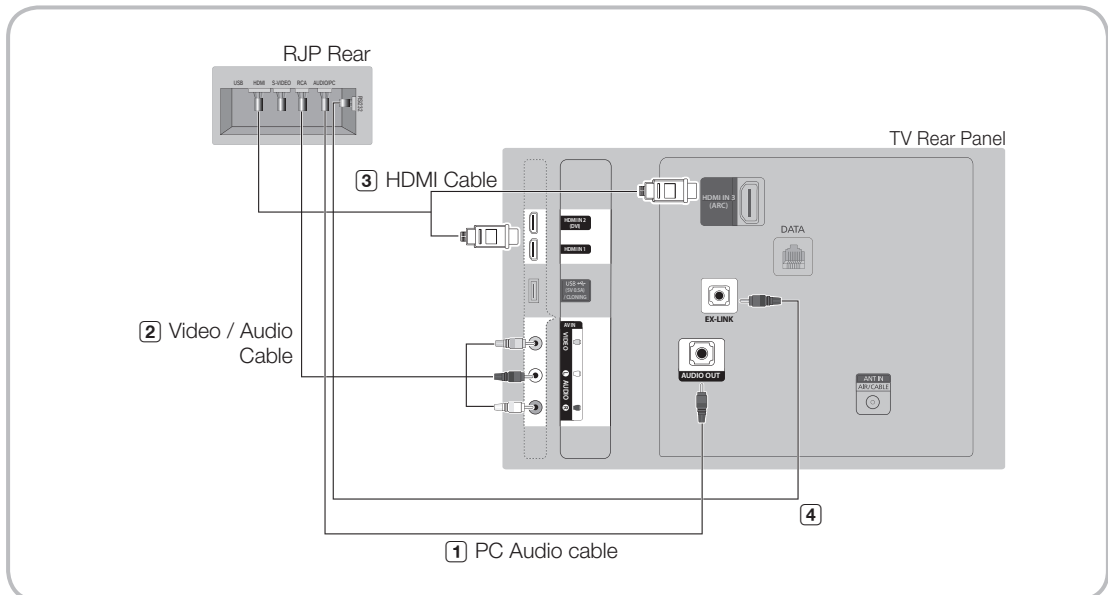
Connecting the RJP (Remote Jack Pack)

Connect the input jacks on the TV to the RJP. The RJP lets guests connect audio and video sources to the TV.

HC670/HC677 Model



HC678 Model



1. Connect the **AUDIO OUT** port of the TV to the PC/AUDIO port of the RJP.
2. Connect the **AV IN VIDEO/L-AUDIO-R** ports of the TV to the RCA port of the RJP.
3. Connect one of the **HDMI IN** ports of the TV to the HDMI port of the RJP.
4. Connect the **EX-LINK** port of the TV to the RS/232 port of the RJP.

 This Samsung TV is compatible with the Tele Adapt TA-7610 RJP only.

- **RJP (Remote Jack Pack):** The RJP is a hardware module that has different Audio Video inputs (AV, Audio, PC and HDMI) and corresponding outputs. The corresponding outputs are connected from the RJP to the TV. The RJP communicates with the TV via RS232. The RJP communicates with the TV by sending messages regarding Active/Inactive sources.
 - A group of hotel menu items let you assign numbered priorities to the jacks of the RJP. (See page 19). 1 is the highest priority and 3 is the lowest. When a guest connects external sources to the RJP jacks, the TV will automatically switch between sources based on the priority you have assigned them in the Menu. For example, lets say AV is set to 1 and HDMI to 2. If a guest has attached a device to the HDMI jack, and then plugs a device into the AV jack, the TV automatically switches to the device plugged into the AV jack (the jack with the higher priority). Note that a guest can also switch between devices manually by pushing a button on the RJP.

 When you set up the RJP, connect the RJP to HDMI 1, 2, or 3 or AV 1 or 2.

- To reset the RJP to its factory default state, press the AV and HDMI buttons simultaneously for 10 seconds. When all button LEDs blink 5 times, the RJP reset is complete.
- 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 guest 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 approximately 10 seconds to establish communications between the TV and the RJP.
- The following table shows the approximate time in seconds it takes to switch from the TV to an input source, based on assigned or default priorities.

 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 to the RJP and one of the input sources 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

 An example: If the RJP has all its live sources (AV, PC, and HDMI) connected, AV has been assigned the highest priority, the RJP is in HDMI mode, and a guest removes and reconnects the AV source, the minimum time required to switch to the AV source is 6.5 seconds.

- To play audio devices (Ipods, MP3 devices, etc.) through the RJP, you must turn Music Mode AV in the menu on. (See page 20)
- Music mode in the TA-7610 RJP is supported by the AV jack only. HDMI Music mode is available for the Guestlink RJP only.

Setting the Hotel Option Data

To let you control how the TV functions when in Hotel mode, the TV has two Hotel mode menus, the Stand-alone mode menu and the Interactive mode menu. The menu items that differ between the menus are listed below.

Menu items in the Stand-alone mode only:

- SI Vendor : Smoovie
- REACH Server and its submenus.

Menu items in the Interactive mode only:

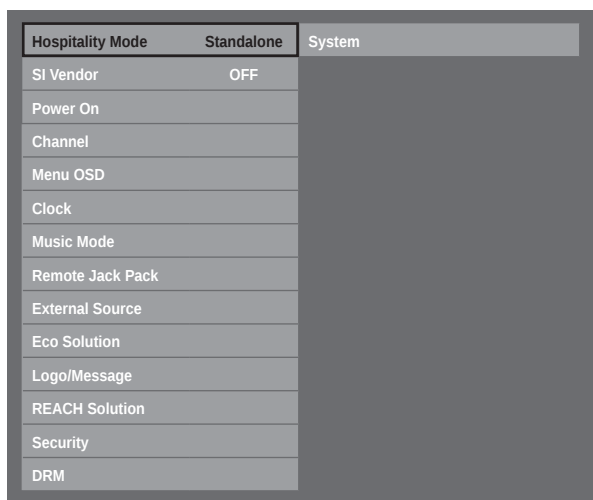
- SI Vendor: Samsung and other vendors.

All other items appear in both menus

To access the menus, press **MUTE** → **1** → **1** → **9** → **ENTER**  on your Samsung remote.

After a menu appears, follow these general directions to navigate and change values:

- Use the Up and Down arrow buttons on the Samsung remote to move from menu item to menu item.
- Press the Enter or Left or Right arrow buttons to select a menu item. The screen displays that menu item only.
- Press the Left or Right arrow button to change a value. The Right arrow button increases numerical values. The Left arrow button decreases numerical values.
- When the screen is displaying one menu item, you can press the Up or Down arrow button to display the next or previous menu item.
- Press the **RETURN** or **MENU** button to exit the current menu item and go to a higher menu level or the Main menu.
- To exit a Hotel mode menu, turn off the TV, and then turn it on again. Any changes you made are saved except changes to SI Vendor. For changes to SI Vendor, you must turn the TV off, wait until the Standby light glows steadily, then unplug the TV, wait for the Standby light to go off, and then plug the TV in again.



Above: The Hotel mode menu.

To change menus, follow these steps:

1. Highlight the Hospitality Mode menu item in the top left corner of the menu.
2. Press the left or right arrow button on the Samsung remote. Only the Hospitality Mode menu item is displayed.
3. Press the left or right arrow button to change the Hospitality Mode item from Standalone to Interactive or from Interactive to Standalone.
4. Press the Return or Menu button on the remote. The entire menu re-appears with your selection displayed in the Hospitality Mode field.

 After you have set the values in one TV, you can clone those values to multiple TVs. See USB Cloning on page 25.

Menu Items

To Enter this menu: Press the **MUTE** → **1** → **1** → **9** → **ENTER** buttons in order.

To exit from this menu : Power Off (or Power Off and unplug if you have changed SI Vendor), and then turn on again. Any changes you made are saved.

Menu	Item	Initial Value	Description
Hospitality Mode	Hospitality Mode	Standalone	Select the Hospitality mode. - Standalone mode: TV works alone, without an SI STB or SBB - Interactive mode: TV works with an SI STB or SBB
	SI Vendor	OFF	- Interactive mode : Samsung / OCC / MTI / Nstreams / NXTV / Enseio / Cardinal / Guestek / Seachange / EBL - Stand-alone mode : OFF / Smoovie
Power On	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	...	When the TV is turned on, it switches automatically to this channel.
	Power On Channel Type	...	Select channel band : AIR (analog air band), DTV (digital air band), CATV (analog cable band), CDTV (digital cable band)
	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	...	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 in Stand Alone Hospitality mode.
	Power On Source	TV	Select the input source the TV displays when turns on.
	Power On Option	Last Option	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 OPT : 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	Channel Setup		Gives you direct, immediate access to some of the Channel menu functions on the user Channel menu such as Auto Program, Antenna selection, etc.
	Channel Editor		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. - 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. The Channel Editor also lets you view information about each channel easily, without your having to display each channel directly.
	Dynamic SI	ON	- On : Check the DTV Program channel number. (If Dynamic SI is On, it is not available to edit DTV channels in Channel Editor.) - Off : Does not check the DTV Program channel number. (If Dynamic SI is Off, it is available to edit DTV channels in Channel Editor, but additional DTV channel program number update is not supported.)

Menu	Item	initial Value	Description
Menu OSD	Picture Menu Lock	OFF	Enable or disable the Picture Menu.
	Menu Display	ON	- On : The Main Menu is displayed. - Off : The Main Menu is not displayed.
	Panel Button Lock	Unlock	Turning the front panel (local key) operations on/off. - Unlock : Unlocks all panel keys. - Lock : Locks all panel keys. - OnlyPower : Locks all panel keys except the Power panel key. - Menu/Source : Locks the Menu and Source panel keys.
	Home Menu Display	...	OFF:The Home Menu is not displayed. ON:The Home Menu is displayed.
	Home Menu Editor		Home Menu is displayed.
	Home Menu Auto Start	ON	OFF:The Home Menu is Auto Start. ON:The Home Menu is not Auto Start.
Clock	Local Time	Manual	Select the way to update clock data. Use clock data from a DTV channel to set the clock automatically or set the clock manually when the TV is in stand-alone mode.
Music Mode	Music Mode AV	OFF	Allows music output from an mp3/audio player connected to an AV 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	When set to Off, the TV's backlight is turned off entirely when a guest uses the Music mode. To save energy, set to Off.
Remote Jack Pack	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
	Priority HDMI	2	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	HDMI 1	Select which HDMI source of the TV is connected to the RJP jack. (HDMI1/HDMI2/HDMI3)
	HDMI Music Mode	OFF	Allows music output from an mp3/audio player connected to an HDMI Input Source. When on, you can hear sound from the player through an HDMI input of the RJP whether there is a video signal or not. (This option is only compatible with the Guest link RJP.)
External Source	USB Pop-up Screen	Default	When a USB device is connected to the TV : - Default : A popup window appears. - Automatic : Opens the USB contents menu automatically. - Disable : Neither the popup window nor the menu appears.
	External Source Banner	ON	If set to On, the TV displays the External Source Banner (information) when you change the TV source to another external input, press the Info key, or turn the TV on. - On : The External Source information is displayed on the TV screen. - Off : The External Source information is not displayed on the TV screen.
	Auto source	OFF	- On : When an external input source is connected to the TV, the TV identifies the input source, and then automatically switches to that input source. - Off : Auto Source function is Off.
	Anynet+Return Source	Power On Src	Select the return TV source after stopping an Anynet+(HDMI-CEC) connection. (This fuction is especially useful for the Guestlink RJP.)

Menu	Item	initial Value	Description
Eco Solution	Energy Saving	Off	Adjusts the brightness of the TV to reduce power consumption. - Off: Turns off the energy saving function. - 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.
	Welcome Message	OFF	Displays a the Welcome Message for 5 seconds when the TV turns On.
Logo/ Message	Edit Welcome Message		Edits the Welcome Message.
	Hospitality Logo	OFF	Turns the Hospitality logo feature On or Off. If On, when the TV is turned on, the Logo is displayed, before the signal from the initial source, for the amount of time set in "Logo Display Time".
	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	...	Hospitality Logo Display Time (3/5/7 seconds).
Cloning	Clone TV to USB	...	Clone the current TV options to a USB memory device.
	Clone USB to TV	...	Clone the saved TV options on a USB memory device to the TV.
	Setting Auto Initialize	OFF	If you set Setting Auto Initialize to On, and the TV's power is turned off and on, the guest side menu items are restored to their cloned values. See page 29.
REACH Server	REACH Server Update Time	1hour	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. 12:00 pm : every 12:00 p.m. 2:00 pm : every 2:00 p.m."
	REACH Update Immediate	OFF	- 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.
	REACH Server Channel	87	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 Server Version	0000	Displays the current REACH data version.
	REACH Server Group ID	All	Select the group ID of the REACH server. (Refer to the REACH server manual for more details)
	REACH	OFF	On : The S-LYNK REACH menu is displayed. Off : The S-LYNK REACH menu is not displayed.
	Backgroud TV Sound	ON	On : The TV sound of the current TV source is continuously outputted even when the S-LYNK REACH menu is displayed. Off : The TV sound of the current TV source is stopped when the S-LYNK REACH menu is displayed.
	IPG Room Type	Default	Selects the IPG room type of the REACH server. (Refer to the REACH server manual for the more information.)
	TICKER	OFF	- On : The TICKER content is displayed. - Off : The TICKER content is not displayed.
	Applite	OFF	- On : The Applite content is displayed. - Off : The Applite content is not displayed.
	Room Number Setting		Setting Room Number.

Menu	Item	initial Value	Description
Security	Password Input		Input Password 00000000.(HC678 model none)
	Password Setting	...	Set new Password.(HC678 model none)
	Password Reset	...	Reset Password to 00000000.(HC678 model none)
	Security Mode	...	Security Mode ON or OFF.(HC678 model none)
	USB	...	USB Disable or Enable.(HC678 model none)
	HDMI	...	HDMI Disable or Enable.(HC678 model none)
	TTX Security	...	TTX: manual clock setting (with updating from TTX data).(HC678 model none)
DRM	DRM Mode	Pro:Idiom	Configures CAS support. Applies to only the NB673, NB677, and NB678 models. OFF : Turns off CAS support. LYNK DRM : Select to turn on S-LYNK DRM CAS support only. Pro:Idiom : Select to turn on Pro:Idiom CAS support only. LYNK DRM,PI : Select to have the TV support S-LYNK DRM CAS and Pro:Idiom CAS.
	PI AES Data	0xD279	Displays the current state of Pro:Idiom AES
	PI AES Log	OFF	
	View PI AES Log	...	
Service	Self Diagnosis for TV		Lets you check the state of the TV picture and sound. • Picture Test : Use to check for picture problems. If the problem appears in the test picture, select YES, and then follow the directions on the screen. • Sound Test : Use to check for sound problems. If the problem occurs during the test, select YES, and then follow the directions on the screen.
	Self Diagnosis for HTV		Lets you check the state of Pro:Idiom and its communication with the SI STB or SBB. If you have any problems with the Pro:Idiom encryption channel or the communications with the SI STB or SBB, use this diagnosis function. If Pro:Idiom DTV Channel Key Loss appears to have failed and the Pro:Idiom encryption channel has failed to play content, first check the broadcasting systems related to Pro:Idiom encryption. If your broadcasting system does not have a problem, contact Samsung Service. If STB SI Vendor Setting appears to have failed and communication with the SI STB or SBB has failed, first check your SI STB or SBB. If your SI STB or SBB does not have a problem, contact to Samsung Service.
	SW Upgrade		Lets you upgrade the TV SW with a USB memory stick. See Page 32.
	Service Pattern	OFF	Lets you check the state of the TV picture by displaying picture test patterns. Press the Menu button to turn off the test patterns and exit.
	ATV Cable AGC Gain	Default	Lets you control the AGC gain of the analog cable channels. Don't change the default value unless problems occur.
	DTV OpenCable AGC Gain	Default	Lets you control the AGC gain of the digital cable channels. Don't change the default value unless problems occur.
	Sound Bar Out	OFF	ON: TV speaker sound will be mute. Sound will come out through HDMI. You must connect the Sound Bar to hear the sound. OFF: Sound will come out through TV speakers normally.
	TV reset		Returns all settings on the TV to their factory defaults.

 REACH (Remote Enhanced Active Control for Hospitality) is a professional, interactive remote controller that lets you deliver TV firmware updates, cloning data, channel mapping changes, S-LYNK REACH contents, and TICKER contents through RF DTV to several hundred hospitality TVs simultaneously. The REACH functions are available only in stand-alone mode. The REACH Server is sold separately. Refer to the REACH server manual enclosed with the REACH server product for more operating information.

Using the Football Mode

Football Mode **TOOLS**

MENU → Applications → Football Mode → ENTER

This mode provides optimized condition for watching sports games.

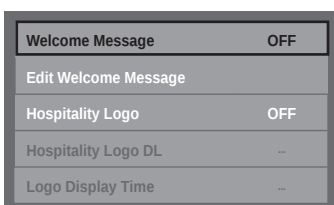
- **A (Zoom)**: Pause playback and divide the picture into 9 parts. Select a part to zoom it in. Press this button again to resume.

If you turn the TV off while watching **Football Mode**, the **Football Mode** will be disable.

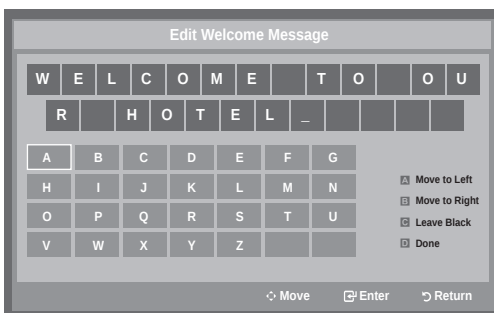
Welcome Message

The Welcome Message feature displays a custom message on the TV every time it is turned on.

- Welcome message settings are in the Hotel Option Menu.
- Set Welcome Message to ON to display the message when the TV is powered on.



- You can make the Welcome Message up to 25 characters long and edit it in the Hotel Service menu.
- Welcome Message supports the following characters:
 - Capital Letters from A to Z.
- You can edit the Welcome Message by using the remote's navigation, color, and Enter buttons in the “**Edit Welcome Message**” OSD (See the illustration below.)



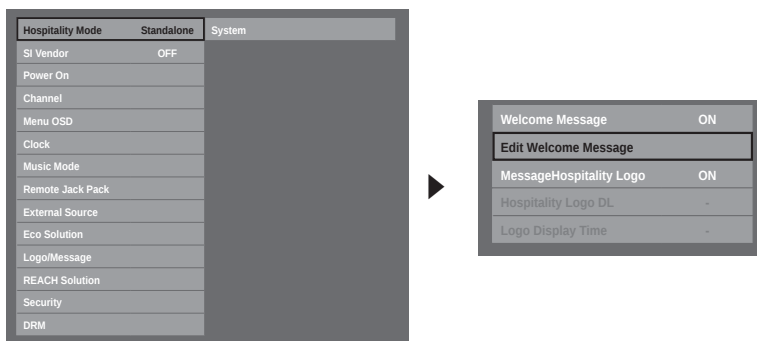
Below are the general directions for navigating and changing letters on the Edit Welcome Message screen:

- Press the **A** button on the remote to move to the left in the message.
- Press the **B** button to move to the right.
- After you have selected a position in the message, use the arrow buttons on your remote to select a letter in the alphabet below the message.
- Press **Enter** to place a letter into the position you selected.
- Press the **C** button to erase a letter in a position or enter a blank.
- Press **Return** or the **D** button to exit.

Hotel Logo

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

- Hospitality Logo settings are the Hotel 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 found Logo option is off, even if the logo image has been loaded into the TV.



• 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.

• Logo Download

- 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 or AVI 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

The USB Cloning function lets you download user-configured settings (**Picture, Sound, Input, Channel, Setup, and Hotel Setup**) from one TV to a USB device, and then upload these settings from the USB device to other TV sets. This lets you create a standard array of settings and distribute that standard array to all the TVs in your facility.

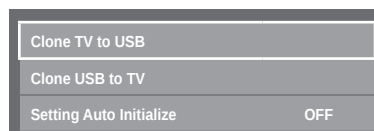
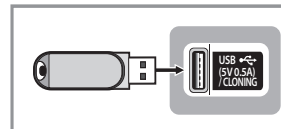
- **Cloning from TV to USB:** Copies stored menu settings from a TV to a USB device.

1. Insert a USB drive into the **USB** port on the rear of the TV
2. Enter the hotel option menu by pressing these buttons in order. **MUTE** → **1** → **9** → **ENTER** 
3. Press the **▲** or **▼** button to select **Clone TV to USB**, and then press the **ENTER**  button.
4. The message **Clone TV to USB** is displayed. Press the **ENTER**  button.
5. The TV displays one of the following messages:

- **In Progress:** Copying data to USB.
- **Completed:** Copy operation was successful.
- **Failed:** Copy operation was not successful.
- **No USB:** USB is not connected.

The clone folder will be labeled T-NVTF6AKUCB.

 The cloned values include the values on the Guest side menu (brightness, picture size, contrast, etc.) and the Hotel side menu.



Cloning from USB to TV: Copies menu settings from a USB device to a TV.

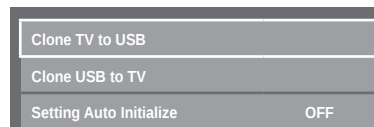
 **Shortcut:** Turn the TV off, insert the USB device, turn the TV on, and then press the **ENTER**  button for 5 seconds.

To clone data to the TV using the Hotel menu, follow these steps:

1. Turn the TV off.
2. Insert the USB drive into the USB port on the rear of the TV.
3. Turn the TV on.
4. Enter the Interactive menu by pressing these buttons in order. **MUTE** → **1** → **1** → **9** → **ENTER** 
5. Press the **▲** or **▼** button to select "Clone USB to TV", and then press the **ENTER**  button.
6. The message **Clone: USB to TV** is displayed. Press the **ENTER**  button.
7. The TV displays one of the following messages:

- **In Progress:** Copying data to TV.
- **Completed:** Copy operation was successful.
- **Failed:** Copy operation was not successful.
- **No USB:** USB is not connected
- **No File:** There is no file to copy on the USB device. If you get a No File message, check the folder on your USB device. The folder name should be T-NVTF6AKUCB.

 Tables that list the settings that are cloned in the Interactive and Standalone Hotel Menus begin on the next page.



- Settings Cloned in the Hotel Menu

Menu Item	Cloning Support	Applicable Region
Hospitality Mode	Yes	All
SI Vendor	Yes	All except Brazil
Power On Channel EN	Yes	All
Power On Channel	Yes	All
Channel Type	Yes	All
Power On Volume EN	Yes	All
Power On Volume	Yes	All
Min Volume	Yes	All
Max Volume	Yes	All
Power On Source	Yes	All
Power On Option	Yes	All
Channel Setup	N/A	All except Hospital
Channel Editor	N/A	All
Channel Bank Editor	N/A	Smooovie SI and Hospital
Channel Bank Service Level	Yes	Hospital Models Only
Mixed Channel Map	Yes	EU
Dynamic SI	Yes	US and US Hospital
Channel Rescan Message	Yes	EU and EU Hospital
Pan Euro MHEG	Yes	EU and EU Hospital
Channel Auto Store	N/A	Hospital Models Only
Mychannel En	Yes	EU and EU Hospital
Genre Editor	N/A	EU and EU Hospital
Picture Menu Lock	Yes	All
Menu Display	Yes	All
Channel Menu Display	Yes	ASIA Models only
Panel Button Lock	Yes	All
Mute On CC	Yes	US Hospital Only
Subtitle Auto On	Yes	EU and EU Hospital
SW Clock	Yes	EU and EU Hospital
Local Time	Yes	EU and EU Hospital
Time Format	Yes	EU and EU Hospital
CLOCK Normal Dim.	Yes	EU
CLOCK Standby Dim.	Yes	EU
Music Mode AV	Yes	All
Music Mode PC	Yes	All
Music Mode Comp	Yes	All
Music Mode Backlight	Yes	All
7610 Priority AV	Yes	All
7610 Priority PC	Yes	All
7610 Priority HDMI	Yes	All
7610 AV Option	Yes	All

Menu Item	Cloning Support	Applicable Region
RJP HDMI Option	Yes	All
HDMI Music Mode	Yes	US and US Hsopital
Sound Bar Out	Yes	All
Video Out	Yes	ASIA Models only
USB Media Mode	Yes	US and EU
External Source Banner	Yes	All
Auto Source	Yes	All
Anynet+ Return Source	Yes	All Models except Hospital
Sub Amp Mode	Yes	All except US
Sub Amp Volume	Yes	All except US
Pillow Speaker Type	Yes	Hospital Models Only
Speaker Select	Yes	Hospital Models Only
Pillow Volume	Yes	Hospital Models Only
Energy Saving	Yes	All
Energy Saving Timer	Yes	EU
Welcome Message	Yes	All
Edit Welcome Message	N/A	All
Hospitality Logo	Yes	All
Hospitality Logo DL	N/A	All
Logo Display Time	Yes	All
Clone TV to USB	N/A	All
Clone USB to TV	N/A	All
Setting Auto Initialize	Yes	All
SIRCH Update Time	Yes	All except Brazil/ASIA_READY
SIRCH Update Immediate	Yes	All except Brazil/ASIA_READY
Manual SIRCH	N/A	All except Brazil/ASIA_READY
SIRCH Channel	Yes	All except Brazil/ASIA_READY
SIRCH Version	N/A	All except Brazil/ASIA_READY
SIRCH Group ID	No	US
REACH	Yes	All except Brazil/ASIA_READY
IPG Room Type	No	Guestek
CAS	Yes	US and US Hsopital
PI AES Data	N/A	US and US Hsopital
Self Diagnosis	N/A	All
PI AES Log	Yes	US and US Hsopital
View PI AES Log	N/A	US and US Hsopital
SW Upgrade	N/A	All
Service Pattern	Yes	All
ATV Cable AGC Gain	Yes	US and US Hsopital
DTV OpenCable AGC Gain	Yes	US and US Hsopital
TV Reset	N/A	All

Multi Code Remocon

A Multi Code Remocon is a special remote which is designed to control multiple TVs.

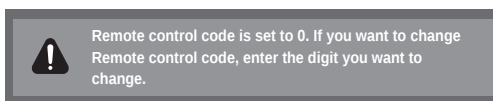
This function is useful where there is more than one TV in a location.

You can control up to 10 TVs with a different ID code of each remote with no conflicts between the TVs. ID numbers are displayed on each TV's OSD.

The Initial ID code for each TV is "0".

- You can set and reset the ID code in Analog TV mode or PC mode. (Not available in DTV mode.)
- You can set the ID code to any digit from 0 to 9.
- To set a TV's ID code, follow these steps:
 1. Aim the remote at the TV, and then press the **MUTE** button and the **RETURN** button simultaneously for more than 7 seconds. When you stop pressing the buttons, the TV displays the current ID in the middle of the screen and the words, "Remote control code is set to x. If you want to change the Remote control code, enter the digit you want to change."
 2. Press the number on the remote you want to assign to the TV. The TV displays the following words:
"Remote control code is changed to x."
 The TV will display the OSD until you press the Exit button.

See the example below.



Example: After you see the message above, if you press 1, the TV and Remote will be set to ID code 1. The TV then displays the following message: "Remote control code is changed to 1" The TV can then only be controlled by a remote which has the same ID code (1).

The TV can then only be controlled by a remote which has the same ID code (1).

- 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 codes of the TV and Remote are reset to "0". "Remote control code is set to 0." appears on the TV.

Setting Auto Initialize

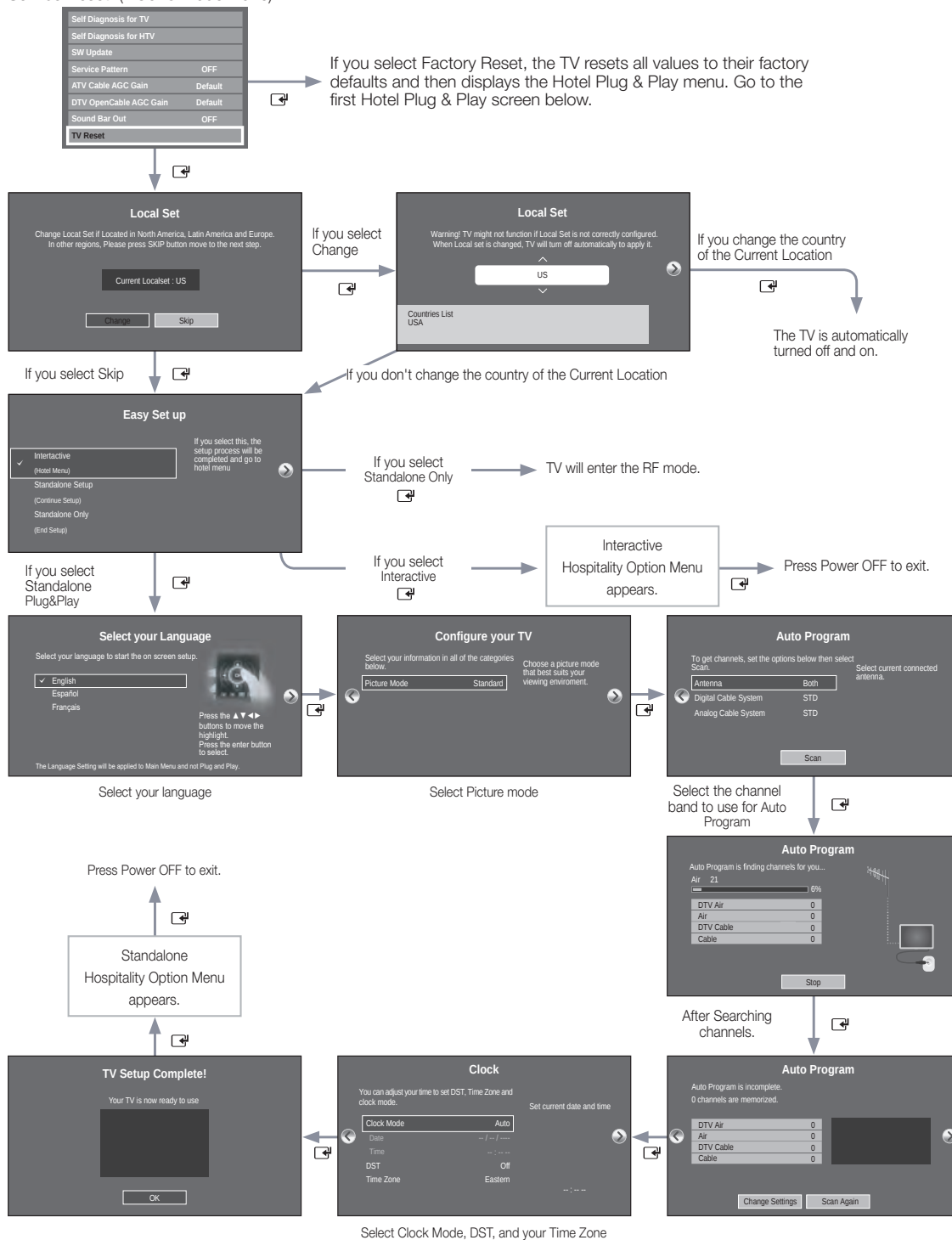
When you clone settings from one TV to another, you clone both the guest side menu and hotel side menu settings: Picture, Sound, Input, Channel, Setup, and Hotel Setup. This lets you set nearly all of the menu values on your hospitality TVs to the same, standard settings. If you allow guests access to 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 Menu	Picture Mode	Sound Menu	Sound Mode
	Backlight		Sound Effect
	Contrast		DTS TruSurround
	Brightness		DTS TruDialog
	Sharpness		Equalizer
	Color		Speaker Settings
	Tint (G/R)		Speaker Select
	Picture Size		Auto Volume
	Picture Size		Digital Audio Out
	Position		Audio Format
	PIP		Audio Delay
	Advanced Settings		Reset Sound
	Dynamic Contrast	System Menu	Menu Language
	Black Tone		Time
	Flesh Tone		Clock
	RGB Only Mode		Sleep Timer
	Color Space		Wake-up Timer
	White Balance		Device Manager
	Gamma		Keyboard Settings
	Motion Lighting		Mouse Settings
	Picture Option		Eco Solution
	Color Tone		Energy Saving
	Digital Clean View		Eco Sensor
	MPEG Noise Filter		No Signal Power Off
	HDMI Black Level		Auto Power Off
	Film Mode		Auto Protection Time
	LED Clear Motion		Change PIN
	Picture Off		General
	Reset Picture		Game Mode
			BD Wise
			Menu Transparency
			Sound Feedback
			Boot Logo
			Anynet+ (HDMI-CEC)
			Anynet+ (HDMI-CEC)
			Auto Turn Off
			Divx® Video On Demand

Hotel Plug & Play

The Hotel Plug & Play function, which automatically performs the Hotel mode selection, Country Setup, Clock Setup, and Picture mode Setup, runs once when power is first turned ON. Setup also runs automatically after you have executed a Service Reset. (HC678 model none)



- **Hotel Plug & Play OSD**

- Initially highlighted: Interactive
- If you select the Standalone Only button, the Standalone hotel mode is set by default and the “Standalone mode is set” OSD appears for 3 seconds.
TV enters RF mode automatically after displaying the “Standalone mode is set” OSD for 3 seconds.
- If you select the Interactive mode, the Interactive Setup Menu is displayed. Press the power off key to exit from the Interactive menu.
- If you select the Standalone Plug & Play mode, the “Select Menu Language” OSD appears.

- **LocalSet**

- Initially highlighted: US
- 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 Interactive mode, the Interactive Setup Menu is displayed. Press the power off key to exit from the Interactive menu.
- If you select the incorrect country, execute TV Reset again after entering the Service section of the Hotel Menu.

- **Select Menu Language OSD**

- If you select Standalone from the “Select Hotel TV Mode” OSD, the “Select Menu Language” OSD appears.
- Initially highlighted: English
- Display time: OSD time out and operation are the same as Samsung's consumer TV models.
- 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 Search Mode OSD**

- If you press the Enter key, the TV automatically searches for channels.
- The OSD Display time, which starts when the Auto Store operation is completed and continues until the Auto Sort function starts, is 30 seconds.

- **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.

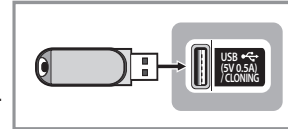
USB Software Upgrade Method

Samsung may offer upgrades to the TV's SW in the future. Please contact the Samsung Hospitality Hot line at 1-866-894-0524 to receive information about downloading upgrades and using a USB drive to update the SW by connecting the USB drive containing the upgrade to the USB port located on the TV.

When the software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you clone the hotel settings so that you can easily reset them after the upgrade.

To upgrade the TV's software, follow these steps:

1. Insert a USB drive containing the SW upgrade into the **USB** port on the side of the TV.
2. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select **Support**, and then press the **ENTER** button.
3. Press the **▲** or **▼** button to select **SW Upgrade**, and then press the **ENTER** button.
The message "**Scanning for USB. This may take more than 1min.**" is displayed.
4. The message "**Upgrade version XXXX to version XXXX? The system will be reset after upgrade.**" is displayed.
Press the **◀** or **▶** to select the **OK**, and then press the **ENTER** button.



Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the SW upgrade. Please check the SW version after the upgrades are complete.

Sound Bar

• Samsung Sound-Bars and Hospitality TVs in 2013

- Samsung Sound-Bars and hospitality TVs support the ARC feature in HDMI 1.4. 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.
- The item of Sound bar Out in Hospitality Option Menu makes you control to where the TV sound is outputted when the TV is turned on.

If Sound bar Out is On, the TV sound is automatically outputted in the Sound Bar device only whenever TV is turned on.

If Sound bar Out is Off, the TV sound is automatically outputted in the TV speaker only whenever TV is turned on.

- Models supporting the ARC function are listed below:
 - Sound-Bars: HW-E350/E450/E550
HW-F350/F355/FM35/F450/FM45/FM45C/F550/F551/FM55/FM55C/F750/F751

• Setting the Sound-Bars to Hotel Mode.

1. Set the following Hotel menu options:
 - Hotel option > External Device > 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 the 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 set 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 1/2 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.