



Contact SAMSUNG WORLD WIDE

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HONG KONG	(852) 3698 4698	www.samsung.com/hk (Chinese) www.samsung.com/hk_en (English)
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# Plasma TV

## user manual



Thank you for purchasing this Samsung product.  
To receive more complete service, please register  
your product at  
[www.samsung.com/register](http://www.samsung.com/register)

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



BN68-04854A-04

# Warning! Important Safety Instructions

(Please read the safety instructions below before installing and using the product.)

## CAUTION

### RISK OF ELECTRIC SHOCK. DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



This symbol indicates that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place a vessel containing water (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.
- Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus uses batteries. In your community, there might be regulations that require you to dispose of these batteries properly to protect the environment. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords, or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at the plug end, where connected to adaptors, and at the point where they exit from the apparatus.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply. (depending on the model)
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. Pull on the plug, not the cord, when removing the power cord from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  - Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat, or cause the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances or where it will operate for 24 hours a day such as in an airport, a train station, etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To turn off the apparatus completely, you must pull the power plug out of the wall socket. Consequently, the power plug should be readily accessible at all times.
- Do not allow children to hang onto the product.
- Store the accessories (batteries, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky shelf, a slanted floor, or a location exposed to vibration.
- Do not drop or impart a shock to the product. If the product is damaged, disconnect the power cord and contact a service center.
- To clean the product, unplug the power cord from the power outlet and wipe the product using a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the appearance or erase the printing on the product.
- Do not expose the apparatus to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble, or overheat the batteries.
- Do not short circuit, disassemble, or overheat the batteries.
- There is a danger of explosion if you replace the batteries with the wrong type of battery. Replace only with the same or equivalent type.
- **WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.**



## For more information on how to use e-Manual (P. 9)

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.

## User Instructions

### • Screen Image retention

Do not display a still image (such as on a video game) on the plasma display panel for more than several minutes as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

### • Heat on the top of the Plasma TV

The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product.

This is normal and does not indicate any defect or operation failure of the product.

However, children should be prevented from touching the upper part of the product.

### • The product is making a "cracking" noise.

A "cracking" noise may occur when the product contracts or expands due to a change in the surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

### • Cell Defects

The PDP uses a panel consisting of 2,360,000(HD-level) to 6,221,000(FHD-level) pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

### • Avoid operating the TV at temperatures below 41°F (5°C)

### • A still image displayed too long may cause permanent damage to the PDP Panel.



Watching the Plasma TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effects to the screen. Damages caused by the above effect are not covered by the Warranty.

### • After-images on the Screen.

Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images.

To prevent this effect, reduce the "brightness" and "contrast" when displaying still images for a long time.

### • Warranty


Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty.


## Securing the Installation Space


Keep the 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 of the product.

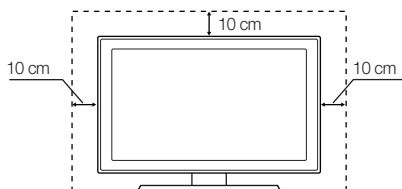
 When using a stand or wall-mount, use parts provided by Samsung Electronics only.

- If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.

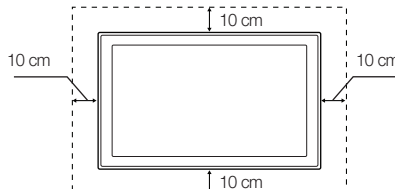
 The appearance may differ depending on the product.

 Be careful when you contact the TV because some parts can be somewhat hot.

### Installation with a stand.



### Installation with a wall-mount.



## List of Features

### 3D

- This exciting new feature enables you to view 3D content.


### Media Play


- **Media Play** connects your TV and compatible Samsung mobile phones/devices through a network.
- Allows you to play music files, pictures, and movies saved on a USB device.


### e-Manual

- Allows you to read on screen full manual. (p. 9)

## Accessories


 Please make sure the following items are included with your TV. If any items are missing, contact your dealer.

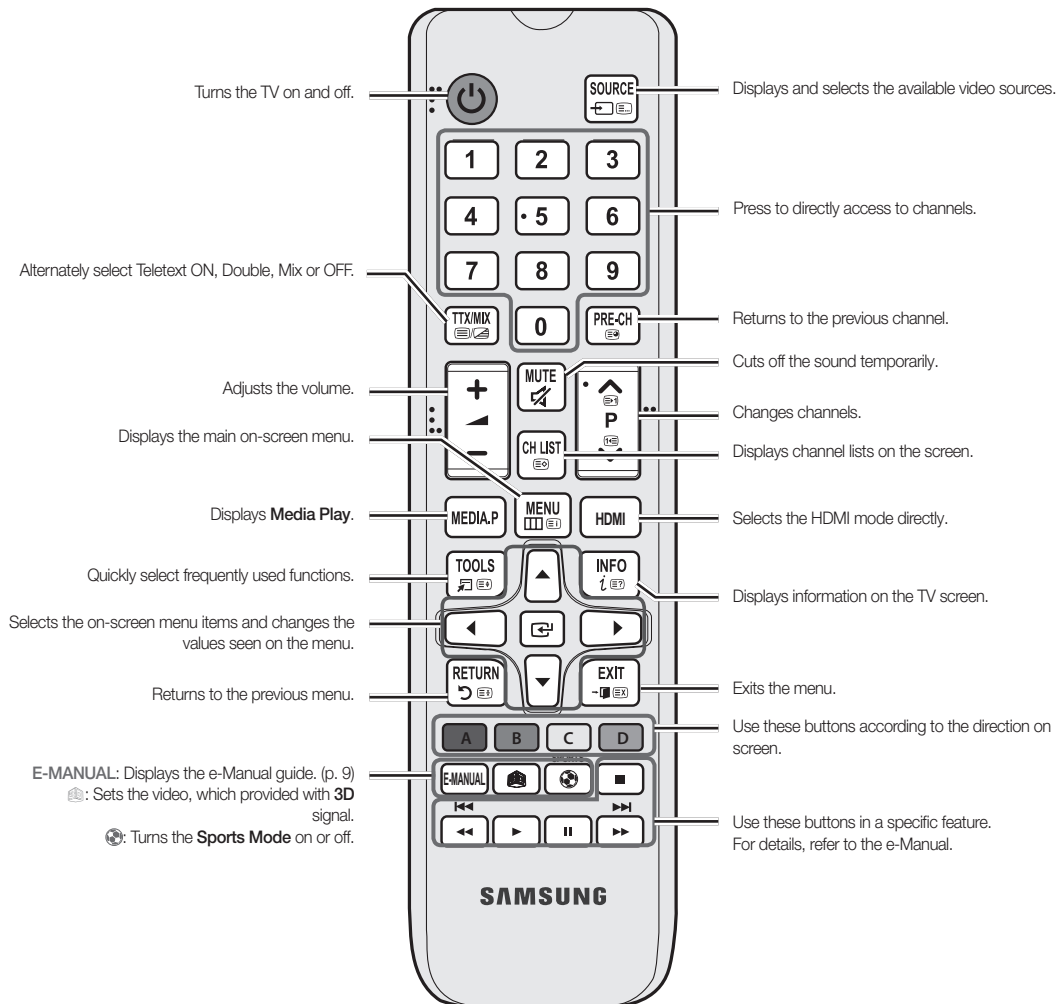
 The items' colours and shapes may vary depending on the models.

 Cables not included in the package contents can be purchased separately.

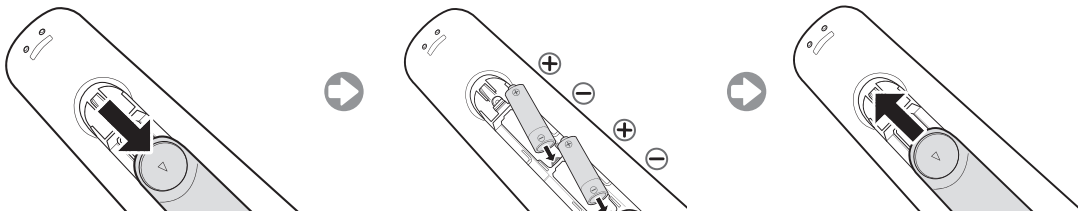
- |  |                        |
|--|------------------------|
| • Remote Control & Batteries (AAA x 2) | • Power Cord           |
| • Warranty Card / Regulatory Guide     | • Owner's Instructions |
| • 3D Active Glasses                    | • Cleaning Cloth       |

## Viewing the Remote Control

 This is a special remote control for the visually impaired persons and has Braille points on the Power, Channel, and Volume buttons.







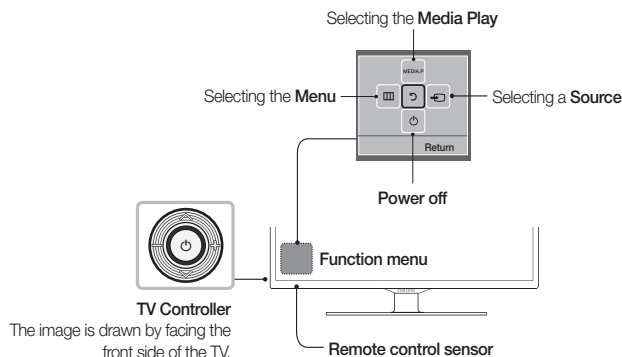
### Installing batteries (Battery size: AAA)



## Using the TV's Controller (Panel Key)

The TV's Controller, a small joy stick like button on the rear left side of the TV, lets you control the TV without 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 more than 1 second.
-  When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.



### Standby mode

Do not leave your TV 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. It is best to unplug the power cord.


## Initial Setup

When the TV is initially powered on, a sequence of on-screen prompts will assist in configuring basic settings. Press the **POWER** button. **Setup** is available only when the source is set to TV.

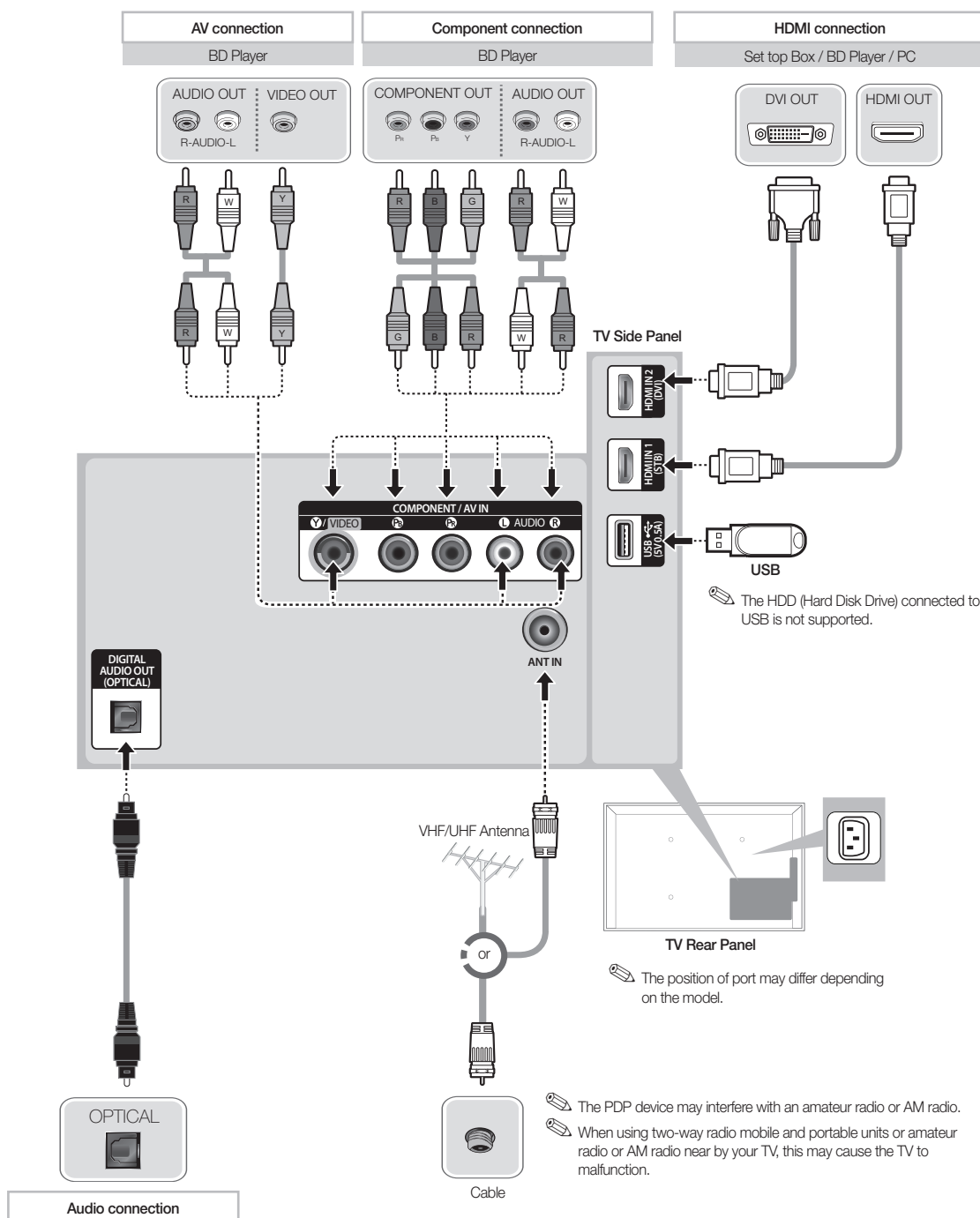
### If You Want to Reset This Feature...

Select **System - Setup** (Initial Setup). Enter your 4 digit PIN number. The default PIN number is "0-0-0-0". If you want to change the PIN number, use the **Change PIN** function.

You should do **Setup** (MENU → **System**) again at home although you did in shop.

-  If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to "0-0-0-0": **MUTE** → 8 → 2 → 4 → **POWER** (on)

## Connections



## Changing the Input Source

### Source

#### TV / HDMI1 / HDMI2/DVI / AV / Component

Use to select TV or other external input sources such as DVD / Blu-ray players / cable box / STB satellite receiver connected to the TV.

- ✎ Press the **SOURCE** button. In the displaying **Source** list, connected inputs will be highlighted.
- ✎ PC(D-Sub) input is not supported. If you want to connect PC to the TV, you can connect the HDMI to DVI cable with the **HDMI IN 2(DVI)** port on the TV.
- ✎ Press the **TOOLS** button.

- **Edit Name**

You can set an external input source name you want.

- When connecting a PC to the **HDMI IN 2(DVI)** port with HDMI cable, you should set the TV to **PC** mode under **Edit Name**.
- When connecting a PC to the **HDMI IN 2(DVI)** port with HDMI to DVI cable, you should set the TV to **DVI PC** mode under **Edit Name**.
- When connecting an AV devices to the **HDMI IN 2(DVI)** port with HDMI to DVI cable, you should set the TV to **DVI Devices** mode under **Edit Name**.

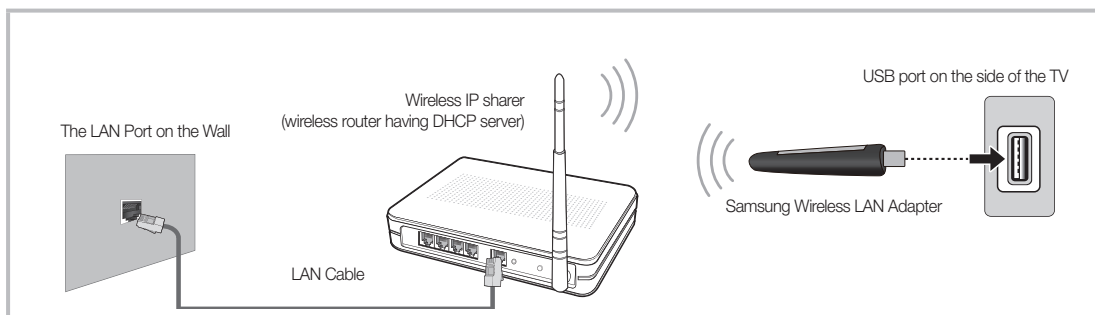
- **Information**

You can see detailed information about the connected external device.

## Network Connection

### Network Connection - Wireless

You can connect your TV to your LAN through a standard wireless router or modem. To connect wirelessly, you must first attach a "Samsung Wireless LAN Adapter" (WIS12ABGNX, WIS09ABGNX - sold separately) to the USB port on the side of your TV. See the illustration below.



Samsung's Wireless LAN adapter is sold separately and is offered by select retailers and Ecommerce sites. Samsung's Wireless LAN adapter supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not be played smoothly.

Most wireless network systems incorporate a security system that requires devices that access the network through an access point or wireless router (typically a wireless IP Sharer) to transmit an encrypted security code called an access key.

If HIGH PURE THROUGHPUT (Greenfield) 802.11n mode is selected and the Encryption type is set to WEP for your wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.



# How to use the e-Manual



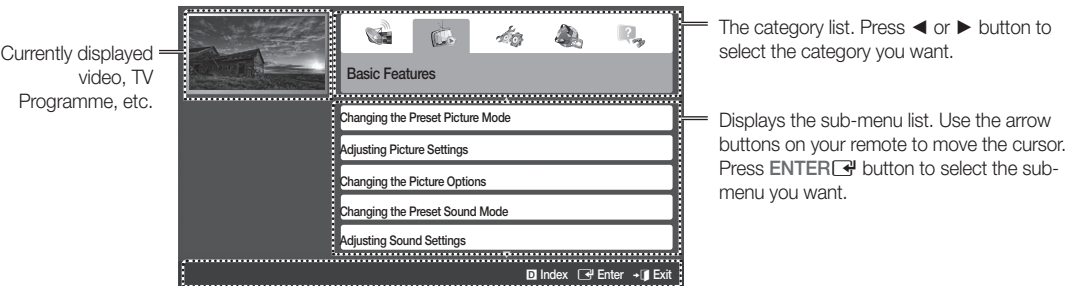
You can find instructions about your TV's features in the **e-Manual** in your TV. To use, press the **E-MANUAL** button on your remote. Move the cursor using the up/down/right/left buttons to highlight a category, then a topic, and then press the **ENTER** button. The **e-Manual** displays the page you want to see.

You can also access it through the menu:

**MENU** → **Support** → **e-Manual** → **ENTER**

To return to the **e-Manual** main menu, press the **E-MANUAL** button on the remote.

## Screen Display



### Operation Buttons

**Index**: Displays the index screen.

**Enter**: Selects a category or sub-menu.

**Exit**: Exit the e-Manual.

<Viewing the Contents>

**Try now**: Displays the OSD menu that corresponds to the topic. To return to the e-Manual screen, press the **E-MANUAL** button.

**Home**: Moves to the e-Manual home screen.

**Page**: Moves to previous or next page.

**Zoom**: Magnifies a screen.

- Press the (**Zoom**) button to magnify the screen. You can scroll through the magnified screen by using the or buttons. To return to the screen to normal size, press the **RETURN** button.

## How to toggle between an e-Manual topic and the corresponding OSD menu(s).

This function is not enabled in some menus.

You cannot use the **Try now** function if the menu is not activated.

Method 1	Method 2
<ol style="list-style-type: none"><li>1. If you want to use the menu that corresponds to an <b>e-Manual</b> topic, press the red button to select <b>Try now</b>.</li><li>2. To return to the <b>e-Manual</b> screen, press the <b>E-MANUAL</b> button.</li></ol>	<ol style="list-style-type: none"><li>1. Press the <b>ENTER</b> button when a topic is displayed. "<b>Are you sure?</b>" appears. Select <b>Yes</b>, and then press the <b>ENTER</b> button. The OSD window appears.</li><li>2. To return to the <b>e-Manual</b> screen, press the <b>E-MANUAL</b> button.</li></ol>

## How to search for a topic on the index page

This function may not be supported depending on the language.

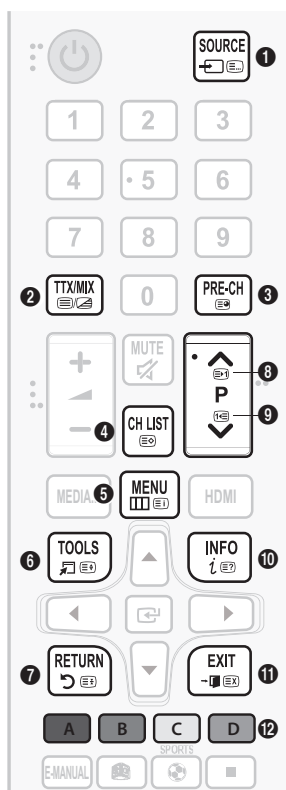
1. If you want to search a keyword, press the blue button to select **Index**.
2. Press the or button to select a character order you want.
3. Press the or button to select a keyword you want to see, and then press the **ENTER** button.
4. You can view the corresponding e-Manual instruction screen.













To close the **Index** screen, press the **RETURN** button.

## Teletext Feature

The index page of the Teletext service gives you information on how to use the service. For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

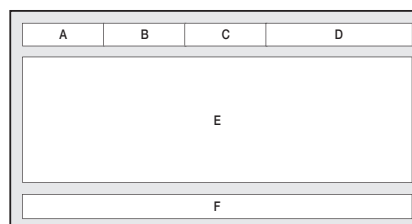
 You can change Teletext pages by pressing the numeric buttons on the remote control.



- 1  (mode): Selects the Teletext mode (LIST/FLOF). If pressed during LIST mode, switches the mode to List save mode. In List save mode, you can save a Teletext page into a list using the  (store) button.
- 2  (Teletext on/mix/off): Activates the Teletext mode for the current channel. Press the button twice to overlap the Teletext mode with the current broadcasting screen. Press it one more time to exit teletext.
- 3  (sub-page): Displays the available sub-page.
- 4  (store): Stores the Teletext pages.
- 5  (index): Displays the index (contents) page at any time while you are viewing Teletext.
- 6  (size): Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of the screen, press it again. For normal display, press it once again.
- 7  (hold): Holds the display at the current page, in the case that there are several secondary pages that follow automatically. To undo, press it again.
- 8  (page up): Displays the next Teletext page.
- 9  (page down): Displays the previous Teletext page.
- 10  (reveal): Displays the hidden text (answers to quiz games, for example). To display the normal screen, press it again.
- 11  (cancel): Shrinks the Teletext display to overlap with the current broadcast.
- 12 Colour buttons (red, green, yellow, blue): If the FASTEXT system is used by the broadcasting company, the different topics on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press the colour corresponding to the topic of your choice. A new colour coded page is displayed. Items can be selected in the same way. To display the previous or next page, press the corresponding coloured button.

### The Teletext pages are organized according to six categories

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.



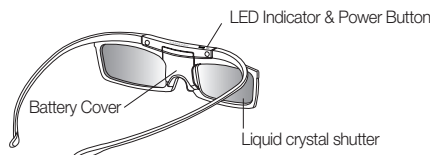
## 3D Active Glasses - SSG-5100GB

### Features

Samsung's SSG-5100GB 3D glasses enable you to view 3D images on your 3D TV. The Samsung 3D glasses communicate with Samsung 3D TVs via the 2.4GHz RF band.

- The Samsung 3D glasses are only compatible with Samsung D, E, and F series 3D TV's that were released in 2011, 2012, and 2013. These 3D glasses cannot be connected to other Bluetooth devices.

### Parts



- For details on how to attach the glasses' temples and how to pair the glasses with the TV, refer to the separate 3D glasses manual.

### Pairing 3D Active Glasses

- What is Pairing?** Pairing is the process of connecting 3D glasses and a 3D TV so that the two devices can exchange data.
- Ensure your Samsung TV and 3D glasses are no farther than 19.5 in (50 cm) apart from each other while pairing is in progress.



#### Turning the glasses on

Press the power button briefly. The green LED is turned on for 3 seconds. (Make sure that 3D is activated on the TV before using the 3D glasses.)

#### Turning the glasses off

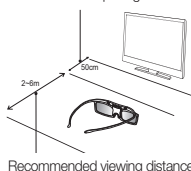
Press the power button briefly. The red LED is turned on for 3 seconds.

#### Performing the pairing process

Turn the TV on and let it power up completely. Press and hold the Power button on the glasses. The green and the red LEDs blink alternately for 2 seconds.

#### Operating range

Recommended pairing distance



Recommended viewing distance	2-6m (6.5 to 19.5 ft)
Recommended pairing distance	50 cm or less (19.5 in)

- Once the 3D glasses are paired, the remaining battery capacity is displayed on the TV screen. (This feature only applies to Samsung F series 3D TVs and 3D glasses that have been available since 2013.)
- If you keep trying to pair the glasses and the TV, the battery level will decrease significantly. However, the battery level will recover to a certain degree in about a minute.
- The working distance depends on the existence of obstacles (a person, metal, walls, etc.) between the glasses and the TV and the strength of the Bluetooth signal.
- Turn off the 3D glasses while they are not in use. If you leave the 3D glasses on, the battery lifespan decreases.

### Pairing steps

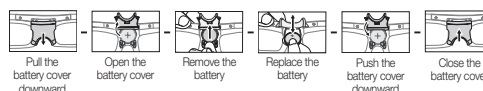
- Turn on the TV, and then move the glasses within 19.5 inches of the TV.
  - Press the power button on the 3D glasses briefly. The 3D glasses will power on and pairing will start.
  - The message "3D glasses are connected to TV." will be displayed on the TV screen when the pairing is successfully completed.
    - If pairing fails, the 3D glasses will power off.
    - If the first attempt to pair fails, power the TV off and on again and perform step 2.
- How to pair again:** Press the power button on the 3D glasses for more than 1 second.

<Pairing is needed again in the following situations:>

- If the 3D glasses do not function, even when the power button is pressed, especially with a 3D TV after a repair.
- If you want to play 3D content on another Samsung 3D TV model that belongs to the D, E, or F series released in 2011 through 2013.

### Replacing the Battery

If the red LED blinks every two seconds continually, replace the battery with a new one.



- Insert the "+" side of the battery into the side marked with "+" in the battery compartment.
- To check the remaining battery capacity, refer to the pairing section in this manual.

### Viewing guidelines

- When viewing a 3D video under a fluorescent lamp (50 Hz - 60 Hz) or 3-wavelength lamp, you may notice a small amount of screen flickering.
- If this occurs, dim or turn off the light.
- Switching the input mode while watching a 3D movie may disable the 3D function on the TV. As a result, the 3D glasses may not function and the movie may not be displayed properly.
- If the 3D glasses are moved outside of their working distance, the signal from the TV will disconnect and the glasses' 3D function will turn off after several seconds.
- The 3D glasses will power off after the 3D function turns off. When this happens, the red LED will turn on for 3 seconds.
- Under some circumstances, the 3D glasses may malfunction due to interference from other devices.
- Ensure you are within the working distance of the glasses when you view a 3D video.
- The images may not be viewable in 3D if you move outside of the working distance for 3 seconds.
- If you lie on your side while watching TV with 3D active glasses, the picture may appear dark or may not be visible.
- The 3D glasses may not work properly due to interference from other 3D products or electronic devices that operate on the 2.4GHz frequency such as a microwave oven or Internet AP. If the 3D function malfunctions due to interference, please move all other electronic or wireless communication devices as far away from the glasses and the TV as possible.

- The 3D effect may be experienced differently depending on the viewer. You may not notice the 3D effect at all if you wear glasses and have an unusual prescription.
- If a part of the 3D glasses or lenses is defective or damaged, it cannot be repaired and the glasses should be replaced. If the glasses stop working within the warranty period, the glasses can be repaired or replaced for free. If the glasses have been damaged due to the fault of the customer or the warranty period has expired, a new pair of glasses will have to be purchased.

## CAUTION!

### IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D IMAGES. READ THE FOLLOWING CAUTIONS BEFORE YOU OR YOUR CHILD USE THE 3D FUNCTION.

- Adults should frequently check on children who are using the 3D function. If there are any complaints of tired eyes, headaches, dizziness or nausea, stop the child from viewing the 3D TV and ensure that they rest.
- Do not use the 3D glasses for other purposes such as general wear, sunglasses, protective goggles, etc.
- Some viewers may experience discomfort such as dizziness, nausea and headaches while viewing 3D TV. If you experience any of these symptoms, stop viewing the 3D TV, remove the 3D glasses and rest for awhile.
- Watching 3D pictures for an extended period of time may cause eye strain. If you experience any eye strain, stop viewing the 3D TV, remove the 3D glasses and rest for awhile.
- Do not use the 3D function or 3D glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may result in injury from running into objects, tripping, and/or falling.

## SAFETY PRECAUTIONS

The following safety instructions are to ensure your personal safety and prevent property damage. Please read them to ensure the proper use of the product.

- Do not place the product in a location exposed to direct sunlight, heat, fire, or water. Exposure may result in a product malfunction or fire.
- Do not apply force to the lenses of the 3D glasses. Do not drop or bend the product. Applying force, dropping, or bending may result in a product malfunction.
- Use only the specified standard batteries. When replacing the battery, insert the battery so that its polarity (+, -) is correct. Failing to do so may damage the battery or result in fire, personal injury or environmental damage caused by liquid leaking from the battery.
- Keep the used battery out of the reach of children so that they do not accidentally swallow the battery. If your child has swallowed the battery, consult your doctor immediately.
- When cleaning the product, do not spray water or cleaner directly onto the surface of the product. Spraying water or cleaner directly onto the glasses may result in fire or electric shock, damage to the product's surface, or cause the indicator labels on the product's surface to come loose.
- Do not use chemicals containing alcohol, solvents, or surfactants, or chemicals such as wax, benzene, thinner, mosquito repellent, lubricant or cleaners. These may cause a discoloration of or cracks in the product surface and cause the indicator labels on the product's surface to come loose.


- Since the product surface and lens are easily scratched, make sure to use a clean soft cloth (a cloth consisting of superfine fibers or cotton flannel) when cleaning to avoid scratching either the surface or the lens. As the product may become scratched if there are any foreign items on the cloth, make sure to shake off any dust before using it.
- Never disassemble, repair, or modify the 3D glasses yourself. Do not use the glasses when they are out of order or broken.
- Take care that you do not injure your eyes with the edges of the frame of the 3D glasses when wearing them.
- Use your hands to put on or remove the 3D glasses.


## Troubleshooting

If you encounter...	Try this...
My 3D glasses do not work.	<ul style="list-style-type: none"> <li>➢ Replace the battery.</li> <li>➢ The 3D glasses should be close to the TV. Make sure that the distance between the TV and your 3D glasses is less than 19.5 feet (6m) in a straight line.</li> <li>➢ Check the 3D function settings of your TV.</li> </ul>
The LED keeps blinking	<ul style="list-style-type: none"> <li>➢ The battery is dead. Replace the battery.</li> </ul>

## Specifications (Model Number: SSG-5100GB)

Optics	Shutters	Liquid crystal	Transmittance	36±2%
	Recommended viewing distance	2 ~ 6m (6.5 to 19.5 ft)	Field Rate	120 fields/second
Weight	Glasses	21.5g/.76 oz. (including the battery: 24.0±0.5g/.85±.018oz.)		
Power	Glasses	One 3V lithium/manganese dioxide battery 3V(CR2025)		
Power Consumption	Glasses	0.85mA (Average)		
	Battery	Type	165mAh, 3.0V (CR2025)	
Operating Conditions		Operating Temperature	10°C ~ 40°C (50 °F ~ 104 °F)	
		Custody Temperature	-20°C ~ 45°C (-4 °F ~ 113 °F)	

 Product specifications may be changed without notice in order to enhance product performance.

 The continuous operating time may differ depending on the wireless communication environment and usage conditions.

## WARRANTY

This Samsung product is warranted for the period of the listed period at the table (Refer to the warranty period table by the country) from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should first return the product to the retailer from whom it was purchased. However, Samsung Authorised Service Centres will comply with this warranty during the Warranty Period. To obtain details, please contact your nearest Authorised Service Centre.

## PROCEDURE FOR MAKING A WARRANTY CLAIM

To make a claim under the warranty, you must contact the Samsung Centre during the Warranty Period to discuss the problems you are having with the product. If a repair or replacement is required, you will be provided with a Warranty Claim Number and address of an Authorised Service Centre.

If you are provided with a Warranty Claim Number, to obtain a repair or replacement of the product, you must send the product to the Authorised Service Centre advised together with:

- a copy of your completed warranty card or, if you have already provided this to Samsung, your name, address and contact telephone number;
  - your original receipt, invoice or sales slip for the purchase of the product as new;
  - your Warranty Claim Number.
- Samsung will then repair or replace the product and return it to you using the contact details provided.

## WARRANTY CONDITIONS

1. The warranty is only valid if the above procedure for making a warranty claim is followed.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Samsung Authorised Service Centres. No re-imbursement will be made for repairs carried out by service centres or dealers that are not authorised by Samsung and any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no reimbursement will be made for such adaptation, nor any damage which may result.
5. The warranty does not apply to any product that has been damaged or rendered defective as a result of any of the following excluded reasons, namely:
  - as a result of accident, misuse, or abuse;
  - through the failure to use this product for its normal purposes;
  - by the use of parts not manufactured or sold by Samsung;
  - by modification without the written permission of Samsung;
  - by damage resulting from transit, neglect, power surge or failure;
  - by damage resulting from lightning, water, fire, or acts of God;
  - as a result of normal wear and tear; or
  - differences in broadcasting methods or product standards between countries.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. NOTHING IN THESE WARRANTY CONDITIONS SHALL EXCLUDE OR LIMIT SAMSUNG'S LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY THE PROVEN NEGLIGENCE OF SAMSUNG, UNLESS SUCH LIMITATION OR EXCLUSION IS PERMITTED BY APPLICABLE LAW.
8. WITH THE EXCEPTION OF SAMSUNG'S LIABILITY WHICH CANNOT BE EXCLUDED OR LIMITED BY LAW, SAMSUNG SHALL NOT BE LIABLE FOR: ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES LOSSES OR EXPENSES; OR LOST PROFITS; OR LOSS OF USE OR LOSS OF DATA; OR DAMAGE TO GOODWILL, REPUTATION OR LOST BUSINESS, ARISING DIRECTLY OR INDIRECTLY, FROM THE PURCHASE, USE OR SALE OF THE PRODUCT, WHETHER OR NOT SAMSUNG WAS ADVISED OR AWARE OF THE POSSIBILITY OF SUCH DAMAGES, LOSSES OR EXPENSES.

9. WITH THE EXCEPTION OF SAMSUNG'S LIABILITY WHICH CANNOT BE EXCLUDED OR LIMITED BY LAW, SAMSUNG'S LIABILITY UNDER OR IN CONNECTION WITH THIS WARRANTY OR THE PURCHASE, USE OR SALE OF THE PRODUCT SHALL NOT EXCEED THE PRICE PAID FOR THE PRODUCT AS NEW.
10. UNLESS PROVIDED FOR IN THIS WARRANTY, ALL CONDITIONS, WARRANTIES AND TERMS IMPLIED BY STATUTE OR OTHERWISE ARE HEREBY EXCLUDED TO THE MAXIMUM EXTENT PERMISSIBLE BY LAW.
11. The above warranty conditions do not affect your statutory rights as a consumer or otherwise.

### Botswana

BTA  
REGISTERED No. :  
BTA/TA/2012/385

### UAE

TRA  
REGISTERED No. :  
ER0101541/13  
DEALER No. : 0016333/08

### Mozambique

Approval No : 18ETA12  
Model : SSG-5100GB

### Zambia

ZMB/ZICTA/TA/  
2013/1/1

### Pakistan

 Approved by PTA (2013)  
Model : SSG-5100GB

### South Africa

 TA-2012/1903  
APPROVED

### Mauritania

AGREE PAR L'ANRT Mauritanie  
Numéro d'agrément : 0099/ARE/2012  
Date d'agrément : 02/12/2012

### Philippine

 NTC TAC  
No.: ESD-1307130C

## Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, visit "www.samsung.com", then click on Support, or call Samsung customer service centre.

Issues	Solutions and Explanations
Picture Quality	First of all, please perform the <b>Picture Test</b> and confirm that your TV is properly displaying test image. (go to <b>MENU - Support - Self Diagnosis - Picture Test</b> ) If the test image is properly displayed, the poor picture may caused by the source or signal.
The TV image does not look as good as it did in the store.	<ul style="list-style-type: none"> <li>If you have an analogue cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.</li> <li>Cable/Satellite subscribers: Try HD stations from the channel line up.</li> <li>Aerial connection: Try HD stations after performing Auto tuning.</li> <li>Many HD channels are up scaled from SD (Standard Definition) contents.</li> <li>Adjust the Cable/Set top box video output resolution to 1080i or 720p.</li> <li>Make sure you are watching the TV at the minimum recommended distance based on the size and definition of the signal.</li> </ul>
The picture is distorted: macroblock error, small block, dots, pixelization	<ul style="list-style-type: none"> <li>Compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies.</li> <li>Low signal level or bad quality can cause picture distortion. This is not a TV issue.</li> <li>Mobile phones used close to the TV (cca up to 1m) may cause noise in picture on analogue and digital TV.</li> </ul>
Colour is wrong or missing.	<ul style="list-style-type: none"> <li>If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.</li> </ul>
There is poor colour or brightness.	<ul style="list-style-type: none"> <li>Adjust the <b>Picture</b> options in the TV menu. (go to <b>Picture Mode / Colour / Brightness / Sharpness</b>)</li> <li>Adjust <b>Energy Saving</b> option in the TV menu. (go to <b>MENU - System - Eco Solution - Energy Saving</b>)</li> <li>Try resetting the picture to view the default picture settings. (go to <b>MENU - Picture - Reset Picture</b>)</li> </ul>
There is a dotted line on the edge of the screen.	<ul style="list-style-type: none"> <li>If the picture size is set to <b>Screen Fit</b>, change it to <b>16:9</b>.</li> <li>Change cable/satellite box resolution.</li> </ul>
The picture is black and white.	<ul style="list-style-type: none"> <li>If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.</li> </ul>
When changing channels, the picture freezes or is distorted or delayed.	<ul style="list-style-type: none"> <li>If connected with a cable box, please try to reset the cable box. Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes.</li> <li>Set the output resolution of the cable box to 1080i or 720p.</li> </ul>
Sound Quality	First of all, please perform the <b>Sound Test</b> to confirm that your TV audio is properly operating. (go to <b>MENU - Support - Self Diagnosis - Sound Test</b> ) If the audio is ok, the sound problem may be caused by the source or signal.
There is no sound or the sound is too low at maximum volume.	<ul style="list-style-type: none"> <li>Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray etc) connected to your TV.</li> </ul>
The picture is good but there is no sound.	<ul style="list-style-type: none"> <li>Set the <b>Speaker Select</b> option to <b>TV Speaker</b> in the sound menu.</li> <li>If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV.</li> <li>If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV).</li> <li>If you are using a DVI to HDMI cable, a separate audio cable is required.</li> <li>Reboot the connected device by reconnecting the device's power cable.</li> </ul>
The speakers are making an inappropriate noise.	<ul style="list-style-type: none"> <li>Check the cable connections. Make sure a video cable is not connected to an audio input.</li> <li>For aerial or cable connections, check the signal strength. Low signal level may cause sound distortion.</li> </ul>

Issues	Solutions and Explanations
No Picture, No Video	
The TV will not turn on.	<ul style="list-style-type: none"> <li>Make sure the AC power cord is securely plugged in to the wall outlet and the TV.</li> <li>Make sure the wall outlet is working.</li> <li>Try pressing the <b>POWER</b> button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "The remote control does not work" below.</li> </ul>
The TV turns off automatically.	<ul style="list-style-type: none"> <li>Ensure the <b>Sleep Timer</b> is set to <b>Off</b> in the <b>Time</b> menu.</li> <li>If your PC is connected to the TV, check your PC power settings.</li> <li>Make sure the AC power cord is plugged in securely to the wall outlet and the TV.</li> <li>When watching TV from an aerial or cable connection, the TV will turn off after 10 ~ 15 minutes if there is no signal.</li> </ul>
You can not play 3D videos in some of the BD players.	<ul style="list-style-type: none"> <li>Take out the disk from player and put it again, or restart the BD player.</li> </ul>
There is no picture/video.	<ul style="list-style-type: none"> <li>Check cable connections (remove and reconnect all cables connected to the TV and external devices).</li> <li>Set your external device's (Cable/Set top Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.</li> <li>Make sure your connected devices are powered on.</li> <li>Be sure to select the TV's correct source by pressing the <b>SOURCE</b> button on the remote control.</li> <li>Reboot the connected device by reconnecting the device's power cable.</li> </ul>
Aerial (Air/Cable) Connection	
The TV is not receiving all channels.	<ul style="list-style-type: none"> <li>Make sure the Aerial cable is connected securely.</li> <li>Please try <b>Setup</b> (Initial setup) to add available channels to the channel list. Go to <b>MENU - System - Setup</b> (Initial setup) and wait for all available channels to be stored.</li> <li>Verify the Aerial is positioned correctly.</li> </ul>
The picture is distorted: macro block error small block, dots, pixelization	<ul style="list-style-type: none"> <li>Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action movies.</li> <li>A low signal can cause picture distortion. This is not a TV issue.</li> </ul>
Others	
The picture will not display in full screen.	<ul style="list-style-type: none"> <li>HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.</li> <li>Black bars on the top and bottom will appear during movies that have aspect ratios different from your TV.</li> <li>Adjust the picture size options on your external device or TV to full screen.</li> </ul>
Plasma TV is making humming noise.	<ul style="list-style-type: none"> <li>Plasma TVs typically make a soft humming sound. This is normal. It's caused by the electrical charges that are used to create the images on the screen.</li> <li>If the humming sound is loud, you may have set the brightness on the TV too high. Try setting the brightness lower.</li> <li>You can also have loud humming if the back of your Plasma TV is too close to a wall or other hard surface. Also try rerouting your connection cables.</li> <li>Improper installation of wall mount can create excessive noise.</li> </ul>
Image Retention (Burn In) Issue.	<ul style="list-style-type: none"> <li>To minimize the possibility of screen burn, this unit is equipped with Pixel Shift screen burn reduction technology. Pixel Shift lets you set the picture so it moves slightly up and down (Vertical Line) and side to side (Horizontal Dot). The regular, slight movement of the picture reduces screen burn in.</li> </ul>
The remote control does not work.	<ul style="list-style-type: none"> <li>Replace the remote control batteries with the poles (+/-) in the right direction.</li> <li>Clean the sensor's transmission window on the remote.</li> <li>Try pointing the remote directly at the TV from 5~6 feet away.</li> </ul>
The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.	<ul style="list-style-type: none"> <li>Programme the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for the SAMSUNG TV code.</li> </ul>



Issues	Solutions and Explanations
A <b>"Mode Not Supported"</b> message appears.	<ul style="list-style-type: none"> <li>Check the supported resolution of the TV, and adjust the external device's output resolution accordingly.</li> </ul>
There is a plastic smell from the TV.	<ul style="list-style-type: none"> <li>This smell is normal and will dissipate over time.</li> </ul>
TV is tilted to the right or left side.	<ul style="list-style-type: none"> <li>Remove the stand base from the TV and reassemble it.</li> </ul>
There are difficulties assembling the stand base.	<ul style="list-style-type: none"> <li>Make sure the TV is placed on a flat surface. If you can not remove the screws from the TV, please use a magnetized screw driver.</li> </ul>
The <b>Broadcasting</b> menu is grey out (unavailable).	<ul style="list-style-type: none"> <li>The <b>Broadcasting</b> menu is only available when the TV source is selected.</li> </ul>
Your settings are lost after 30 minutes or every time the TV is turned off.	<ul style="list-style-type: none"> <li>If the TV is in the <b>Store Demo</b> mode, it will reset audio and picture settings every 30 minutes. If you want to change the settings from <b>Store Demo</b> mode to <b>Home Use</b>, press the <b>SOURCE</b> button to select <b>TV</b> mode, and go to <b>MENU</b> → <b>Support</b> → <b>Use Mode</b>.</li> </ul>
You have intermittent loss of audio or video.	<ul style="list-style-type: none"> <li>Check the cable connections and reconnect them.</li> <li>Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.</li> </ul>
You see small particles when you look closely at the edge of the frame of the TV.	<ul style="list-style-type: none"> <li>This is part of the product's design and is not a defect.</li> </ul>
The <b>PIP</b> menu is not available.	<ul style="list-style-type: none"> <li><b>PIP</b> functionality is only available when you are using a HDMI or components source.</li> </ul>
You turned the TV off 45 minutes ago, and it turned on again.	<ul style="list-style-type: none"> <li>It is normal. The TV operates the OTA (Over The Aerial) function itself to upgrade firmware downloaded whilst your watching TV.</li> </ul>
There are recurrent picture/ sound issues.	<ul style="list-style-type: none"> <li>Check and change the signal/source.</li> </ul>
A reaction may occur between the rubber cushion pads on the base stand and the top finish of some furniture.	<ul style="list-style-type: none"> <li>To prevent this, use felt pads on any surface of the TV that comes in direct contact with furniture.</li> </ul>
The message <b>"This file may not be playable properly."</b> appears.	<ul style="list-style-type: none"> <li>This may appear because of high bit rate of content. Content generally will play but could experience some playability issue.</li> </ul>

 You can keep your TV as optimum condition upgrading the latest firmware on web site ([www.samsung.com](http://www.samsung.com) → Support) by USB.




## 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.

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)

 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 installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

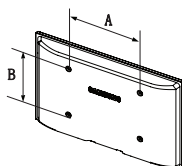
### NOTE

- 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 the VESA standard screw specifications.
- Do not use screws longer than the standard dimension, 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 strongly, 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 15 degrees tilt when mounting this TV.

Models	VESA Spec. (A * B)	Standard Screw	Quantity
PS43F4900 / PS51F4900	400 X 400	M8	4



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

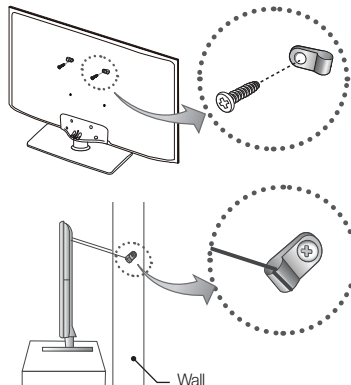




## Securing the TV to the Wall



**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.
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.

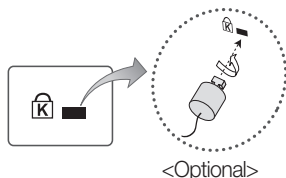
### NOTE

- 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.
  - Untie the string before moving the TV.
4. Verify 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.

-  Please find a "K" icon on the rear of the TV. A Kensington slot is beside the "K" icon.
-  The position and colour may differ depending on the model.





To lock the product, follow these steps:

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.
4. Lock the lock.

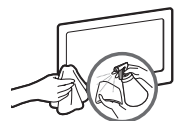
-  These are general instructions. For exact instructions, see the User manual supplied with the locking device.
-  The locking device has to be purchased separately.

## Storage and Maintenance

-  If you remove the attached sticker on the TV screen, clean the residues and then watch TV.
-  The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using a soft cloth to prevent scratches.



Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.



Clean the product with a soft cloth dipped in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

## Licence



Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



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DivX Certified® to play DivX® video up to HD 1080p, including premium content.

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### Open source licence notice

In the case of using open source software, Open Source Licences are available on the product menu. Open Source Licence Notice is written only English.

## Specifications

Display Resolution	1024 X 768	
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)	-20° ~ 20°	
Model Name	PS43F4900	PS51F4900
Screen Size	109 cm	129 cm
Sound (Output)	10W x 2	
Dimensions (W x H x D) Body With stand	100.9 x 61.7 x 5.5 (cm) 100.9 x 69.2 x 30.5 (cm)	118.5 x 70.2 x 5.5 (cm) 118.5 x 77.6 x 30.5 (cm)
Weight Without Stand With Stand	13.6 kg 18.0 kg	17.7 kg 22.1 kg

 Design and specifications are subject to change without prior notice.

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

## Supported Videos Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi / *.mkv *.asf / *.wmv *.mp4 / *.3gp *.vro / *.mpg *.mpeg / *.ts *.tp / *.trp *.mov / *.flv *.vob / *.svi *.divx	AVI	DivX 3.11/4.x/5.x/6.x	1920 x 1080	6-30	30	AC3
	MKV					LPCM
	ASF	MPEG4 SP/ASP			ADPCM	
	MP4	H.264 BP/MP/HP			(IMA, MS)	
	3GP				AAC	
	MOV	Motion JPEG	640 x 480		8	HE-AAC
	FLV	Window Media Video v9				WMA
	VRO				DD+	
	VOB	MPEG2	1920 x 1080		30	MPEG (MP3)
	PS					DTS (Core)
TS	MPEG1			G.711(A-Law, μ-Law)		
*.webm	WebM	VP8			20	Vorbis

### Other Restrictions

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- Some USB/digital camera devices may not be compatible with the player.
- The menu can be displayed late if the video is over 10Mbps(bit rate).

Video decoder	Audio decoder
<ul style="list-style-type: none"> <li>Supports up to H.264, Level 4.1 (FMO/ASO/RS are not supported.)</li> <li>Frame rate : <ul style="list-style-type: none"> <li>Below 1280 x 720: 60 frame max</li> <li>Above 1280 x 720: 30 frame max</li> </ul> </li> <li>VC1 AP L4 is not supported.</li> <li>GMC 2 or higher is not supported.</li> </ul>	<ul style="list-style-type: none"> <li>WMA 10 Pro supports up to 5.1 channel and M2 profile.</li> <li>WMA lossless audio is not supported.</li> <li>Vorbis supports up to 2ch.</li> <li>DD+ supports up to 5.1 channel.</li> </ul>

## Supported Subtitle Formats

### External

Name	File extension
MPEG-4 timed text	.txt
SAMI	.smi
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass
Powerdivx	.psb

### Internal

Name	Container	Format
Xsub	AVI	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubRip	MKV	Text Format
MPEG-4 Timed text	MP4	Text Format

## Supported Photos Formats

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360 X 8640
*.bmp	BMP	4096 X 4096
*.mpo	MPO	15360 X 8640

The MPO type file does not support Zoom, Rotate and Slide Show Effect functions.

## Supported Music Formats

File Extension	Type	Codec	Remark
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac	MPEG4	AAC	
*.flac	FLAC	FLAC	Supports up to 2ch.
*.ogg	OGG	Vorbis	Supports up to 2ch.
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel and M2 profile. (WMA lossless audio is not supported.)
*.wav	wav	wav	
*.mid *.midi	mid	mid	type 0 and type 1

### Full available resolution

Optimal resolution is 1024 X 768 @ 60 Hz.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
VESA DMT	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	+/+

#### NOTE

- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.

### For India Only



This marking on the product, accessories or literature indicates that the product and its electronic accessories 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.

For more information on safe disposal and recycling visit our website [www.samsung.com/in](http://www.samsung.com/in) or contact our Helpline numbers - 18002668282, 180030008282.