





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

Model _____Serial No. _____



If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

 Country
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SAMSUNG

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. RE-FER 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 appratus 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 use 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 appratus 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 self, 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 cloth dipped in a small amount of water. 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.
- 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.

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.

Digital TV notice

- Functionalities related to Digital TV (DVB) are only available in countries/areas where DVB-T (MPEG2 and MPEG4 AVC) digital terrestrial signals are broadcasted or where you are able to access to a compatible DVB-C (MPEG2 and MPEG4 AAC) cable-TV service. Please check with your local dealer the possibility to receive DVB-T or DVB-C signal.
- 2. DVB-T is the DVB European consortium standard for the broadcast transmission of digital terrestrial television and DVB-C is that for the broadcast transmission of digital TV over cable. However, some differentiated features like EPG (Electric Programme Guide), VOD (Video On Demand) and so on, are not included in this specification. So, they cannot be workable at this moment.
- Although this TV set meets the latest DVB-T and DVB-C standards, as of [August, 2008], the compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts cannot be guaranteed.
- Depending on the countries/areas where this TV set is used some cable-TV providers may charge an additional fee for such a service and you may be required to agree to terms and conditions of their business.
- 5. Some Digital TV functions might be unavailable in some countries or regions and DVB-C might not work correctly with some cable service providers.
- 6. For more information, please contact your local Samsung customer care centre.
 - The reception quality of TV may be affected due to differences in broadcasting method between the countries. Please check the TV performance in the local SAMSUNG Authorized Dealer, or the Samsung Call Centre whether it can be improved by reconfiguring TV setting or not.

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.



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

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



Correct disposal of batteries in this product

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

🅙 CIS languages (Russian, Ukrainian, Kazakhs) are not available for this product, since this is manufactured for customers in EU region.

List of Features

Media Play

• 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

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

 $^{\textcircled{}}$ The items' colours and shapes may vary depending on the models.

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

 $^{\textcircled{}}$ Check that there is no accessory hidden behind packing materials when you open the box.

- Remote Control & Batteries (AAA x 2)
- Warranty Card / Regulatory Guide
- Owner's Instructions

- Power Cord
- Cleaning Cloth





- open the ferrite core and clip it around the cable near the plug as shown in the figure.
- A Maximum distance between the ferrite core and the end of the cord inserted in the TV: 3/4 inches
- B Maximum distance between the ferrite core and the other end of the cord inserted in the AC outlet: 3/4 inches
- The ferrite cores are used to shield the cables from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug.

🖄 An administration fee may be charged if either

- (a) an engineer is called out at your request and there is no defect in the product
- (i.e. where you have failed to read this user manual)
- (b) you bring the unit to a repair centre and there is no defect in the product
- (i.e. where you have failed to read this user manual)

🖄 The amount of such administration charge will be advised to you before any work or home visit is carried out.

English

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.

Turns the TV on and off.		 Displays and selects the available video sources.
Alternately select Teletext ON, Double, Mix or OFF.	4 • 5 6	Press to directly access to channels.
Arliusts the volume		Cuts off the sound temporarily.
Displays the main on-screen menu.		Changes channels. Displays channel lists on the screen.
Displays Media Play . Displays Media Play . See e-Manual chapter "Using the Media Contents" Quickly select frequently used functions.	MEDIA.P MENU TOOLS INFO igg	 Displays the EPG (Electronic Programme Guide). See e-Manual chapter "Using Channel menu > Guide" Displays information on the TV screen.
Selects the on-screen menu items and changes the values seen on the menu. Returns to the previous menu.		Use as the selection button. Exits the menu.
E-MANUAL: Displays the e-Manual guide. (p. 9) P.SIZE: Selects the picture size. AD/SUBT.: Audio Description selection. (Not available in some locations) / Displays digital subtitles.		 Use these buttons according to the direction on screen. Used in the interactive TV(MHEG) features etc. Use these buttons in a specific feature. For details, refer to the e-Manual.

Installing batteries (Battery size: AAA)



Remove the battery cover located on the back of the handset by gently pulling downwards from the indicated part.



Insert two **AAA/R6** or equivalent type batteries inside. Place the batteries in the right directions.



Replace the battery cover.

Remove the batteries from the remote control handset when it is not to be used for a long period, otherwise it may be damaged due battery leakage.

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.

 $^{\scriptsize \textcircled{}}$ Some functions which require a PIN code may not be available.

Ne product colour and shape may vary depending on the model.

🖗 Exits the menu when pressing the controller more than 1 second.

When using the controller in the up/down/left/right directions, make sure you do not push the controller in first. If you push the controller in first it will not move in 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 POWERO 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 \rightarrow System) again at home even though you did in shop already.

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)



🔊 NOTE

- PC(D-Sub) and PC/DVI AUDIO IN input are not supported.
- Connecting through the HDMI cable may not be supported depending on the PC.
- If a DVI to HDMI cable is connected to HDMI IN 2(DVI) port, there will be no audio.
- · For set-top box connection using HDMI cable, we highly recommend you to connect the HDMI IN 1(STB) port.

English - 7

English

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

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

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



The image may differ depending on the model.

🔊 NOTE

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

Changing the Input Source

Source

TV / Ext. / 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.

Nervice Source button. In the displayed 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.

Ext. always stays activated.

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.

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 I button. The e-Manual displays the page you want to see. You can also access it through the menu:

[ዀ] $\mathsf{MENU} \blacksquare \rightarrow \mathsf{Support} \rightarrow e\text{-Manual} \rightarrow \mathsf{ENTER}$

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

Screen Display



- ♦ Page: Moves to previous or next page.
- C 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).

 $^{\scriptsize \textcircled{}}$ This function is not enabled in some menus.

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

Method 1			Method 2
 If you want to use the menu that corresponds to an e-Manual topic, press the red button to select Try now. To return to the e-Manual screen press the E-MANUAL button 		1.	Press the ENTER is button when a topic is displayed. "Are you sure?" appears. Select Yes, and then press the ENTER is button. The OSD window appears.
		2.	To return to the e-Manual screen, press the E-MANUAL button.

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 I 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.



- (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 (a)(store) button.
- (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.
- (index): Displays the index (contents) page at any time while you are viewing Teletext.
- (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.
- (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.
- (page up): Displays the next Teletext page.
- 9 📧 (page down): Displays the previous Teletext page.
- (c) (eveal): Displays the hidden text (answers to quiz games, for example). To display the normal screen, press it again.
- () (cancel): Shrinks the Teletext display to overlap with the current broadcast.
- 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.	
В	Broadcasting channel identity.	
С	Current page number or search indications.	
D	Date and time.	
E	Text.	
F	Status information. FASTEXT information.	



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 Picture Test and confirm that your TV is properly displaying test image. (go to MENU - Support - Self Diagnosis - Picture Test) If the test image is properly displayed, the poor picture may caused by the source or signal.			
	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.			
	Cable/Satellite subscribers: Try HD stations from the channel line up.			
The TV image does not look as good	Aerial connection: Try HD stations after performing Auto tuning.			
as it did in the store.	Many HD channels are up scaled from SD (Standard Definition) contents.			
	Adjust the Cable/Set top box video output resolution to 1080i or 720p.			
	 Make sure you are watching the TV at the minimum recommended distance based on the size and definition of the signal. 			
The picture is distorted: macroblock	Compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies.			
error, small block, dots, pixelization	Low signal level or bad quality can cause picture distortion. This is not a TV issue.			
	 Mobile phones used close to the TV (cca up to 1m) may cause noise in picture on analogue and digital TV. 			
Colour is wrong or missing.	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.			
	Adjust the Picture options in the TV menu. (go to Picture Mode / Colour / Brightness / Sharpness)			
There is poor colour or brightness.	Adjust Energy Saving option in the TV menu. (go to MENU - System - Eco Solution - Energy Saving)			
	• Try resetting the picture to view the default picture settings. (go to MENU - Picture - Reset Picture)			
There is a dotted line on the edge of	If the picture size is set to Screen Fit, change it to 16:9.			
the screen.	Change cable/satellite box resolution.			
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.			
When changing channels, the picture	 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. 			
treezes or is distorted or delayed.	Set the output resolution of the cable box to 1080i or 720p.			
Sound Quality	First of all, please perform the Sound Test to confirm that your TV audio is properly operating. (go to MENU - Support - Self Diagnosis - Sound Test)			
	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.	Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray etc) connected to your TV.			
	Set the Speaker Select option to TV Speaker in the sound menu.			
	 If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV. 			
The picture is good but there is no sound.	 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). 			
	If you are using a DVI to HDMI cable, a separate audio cable is required.			
	Reboot the connected device by reconnecting the device's power cable.			
The speakers are making an	Check the cable connections. Make sure a video cable is not connected to an audio input.			
inappropriate noise.	For aerial or cable connections, check the signal strength. Low signal level may cause sound distortion.			

Issues	Solutions and Explanations
No Picture, No Video	
The TV will not turn on.	 Make sure the AC power cord is securely plugged in to the wall outlet and the TV. Make sure the wall outlet is working. Try pressing the POWER 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.
The TV turns off automatically.	 Ensure the Sleep Timer is set to Off in the Time menu. If your PC is connected to the TV, check your PC power settings. Make sure the AC power cord is plugged in securely to the wall outlet and the TV. When watching TV from an aerial or cable connection, the TV will turn off after 10 ~ 15 minutes if there is no signal.
There is no picture/video.	 Check cable connections (remove and reconnect all cables connected to the TV and external devices). 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. Make sure your connected devices are powered on. Be sure to select the TV's correct source by pressing the SOURCE button on the remote control. Reboot the connected device by reconnecting the device's power cable.
Aerial (Air/Cable) Connection	
The TV is not receiving all channels.	 Make sure the Aerial cable is connected securely. Please try Setup (Initial setup) to add available channels to the channel list. Go to MENU - System - Setup (Initial setup) and wait for all available channels to be stored. Verify the Aerial is positioned correctly.
The picture is distorted: macro block error small block, dots, pixelization	 Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action movies. A low signal can cause picture distortion. This is not a TV issue.
Others	
The picture will not display in full screen.	 HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. Black bars on the top and bottom will appear during movies that have aspect ratios different from your TV. Adjust the picture size options on your external device or TV to full screen.
Plasma TV is making humming noise.	 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. If the humming sound is loud, you may have set the brightness on the TV too high. Try setting the brightness lower. 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. Improper installation of wall mount can create excessive noise.
Image Retention (Burn In) Issue.	 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.
The remote control does not work.	 Replace the remote control batteries with the poles (+/-) in the right direction. Clean the sensor's transmission window on the remote. Try pointing the remote directly at the TV from 5-6 feet away.
The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume. • Programme the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box remote control to the Cable/Set top box remote	
A "Mode Not Supported" message appears.	Check the supported resolution of the TV, and adjust the external device's output resolution accordingly.

Issues	Solutions and Explanations			
There is a plastic smell from the TV.	This smell is normal and will dissipate over time.			
The TV Signal Information is unavailable in the Self Diagnosis Test menu.	This function is only available with digital channels from an Aerial / RF / Coax connection.			
TV is tilted to the right or left side.	Remove the stand base from the TV and reassemble it.			
There are difficulties assembling the stand base.	 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. 			
The Broadcasting menu is grey out (unavailable).	The Broadcasting menu is only available when the TV source is selected.			
Your settings are lost after 30 minutes or every time the TV is turned off.	 If the TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. If you want to change the settings from Store Demo mode to Home Use, press the SOURCE button to select TV mode, and go to MENU → Support → Use Mode. 			
You have intermittent loss of audio	Check the cable connections and reconnect them.			
or video.	 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. 			
You see small particles when you look closely at the edge of the frame of the TV.	This is part of the product's design and is not a defect.			
The PIP menu is not available.	PIP functionality is only available when you are using a HDMI or components source.			
You turned the TV off 45 minutes ago, and it turned on again.	It is normal. The TV operates the OTA (Over The Aerial) function itself to upgrade firmware downloaded whilst your watching TV.			
The message "Scrambled Signal" or "Weak or No Signal" appears.	 If you are using a CAM CARD (CI/CI+), check that it is installed into the common interface slot. If there is still a problem, pull the CAM CARD out of the TV and insert it into the slot again. 			
There are recurrent picture/sound issues.	Check and change the signal/source.			
A reaction may occur between the rubber cushion pads on the base stand and the top finish of some furniture.	To prevent this, use felt pads on any surface of the TV that comes in direct contact with furniture.			
The message "This file may not be playable properly." appears.	This may appear because of high bit rate of content. Content generally will play but could experience some playability issue.			

Sour Constraints and the set of the set

Installing the Wall Mount

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

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

Wall Mount Kit Specifications (VESA)

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.

inches	VESA Spec. (A * B)	Standard Screw	Quantity
43~51	400 X 400		
60~64	600 X 400	1 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.

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.

Nease find a "m" icon on the rear of the TV. A kensington slot is beside the "m" icon.

Nhe 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.
- $^{\textcircled{}}$ The locking device has to be purchased separately.



Securing the TV to the Wall



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

To avoid the TV from falling

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



The product colour and shape may vary depending on the model.

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.
- $^{\textcircled{}}$ The appearance may differ depending on the product.
- $^{\scriptsize \textcircled{}}$ Be careful when you contact the TV because some parts can be somewhat hot.



Storage and Maintenance

 \circledast If you remove the attached sticker on the TV screen, clean the residues and then watch TV.

S 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 dapped in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

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Specifications

Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity Sound (Output)	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 10W X 2				
Model Name	PS43F4500		PS51F4500		
Display Resolution		1024 X	(768		
Screen Size	43 inches			51 inches	
Dimensions (W x H x D) Body With stand	1009.7 x 617.5 x 55.7 1009.7 x 698.8 x 235.0		1185.2 x 702.1 x 55.7 (mm) 1185.2 x 783.0 x 235.0 (mm)		
Weight Without Stand With Stand	13.6 kg 15.0 kg			17.7 kg 19.1 kg	
Model Name	PS51F5000	PS60F	5000	PS64F5000	
Display Resolution	1920 X 1080	1920 X 1080 (Black & White)		1920 X 1080	
Stand Swivel (Left / Right)		-20° ~	20°		
Screen Size	51 inches	60 inches		64 inches	
Dimensions (W x H x D) Body With stand	1185.2 x 702.1 x 55.7 (mm) 1185.2 x 792.1 x 307.2 (mm)	1388.3 x 823.3 x 55.7 (mm) 1388.3 x 924.1 x 355.0 (mm)		1478.0 x 870.0 x 55.7 (mm) 1478.0 x 967.0 x 355.0 (mm)	
Weight Without Stand With Stand	17.8 kg 19.6 kg	26.7 kg 29.3 kg		32.2 kg 34.8 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.

 \circledast Typical power consumption is measured according to IEC 62087 Ed.2

English

Supported Video Formats

File Extention	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS TS	DivX 3.11/4.x/5.x/6.x			30 LPCI (MA, h	AC3
*.avi / *.mkv *.asf / *.wmv		MPEG4 SP/ASP	1920 x 1080			LPCM ADPCM
*.mp4 / *.3gp		H.264 BP/MP/HP				(IMA, MS)
*.mpeg / *.ts		Motion JPEG	640 x 480		8	HE-AAC WMA DD+
*.tp / *.trp *.mov / *.flv		Window Media Video v9	/indow Media Video v9	6~30		
*.vob / *.svi		MPEG2	1000 × 1080		30	MPEG (MP3) DTS (Core)
GIVA		MPEG1	1920 X 1060			G.711(A-Law, µ-Law)
*.webm	WebM	VP8			20	Vorbis

Cther 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		
Supports up to H.264, Level 4.1 (FMO/ASO/RS are not supported.)	WMA 10 Pro supports up to 5.1 channel and M2 profile.		
• frame rate :	WMA lossless audio is not supported.		
- Below 1280 x 720: 60 frame max	Vorbis supports up to 2ch.		
- Above 1280 x 720: 30 frame max	DD+ supports up to 5.1 channel.		
VC1 AP L4 is not supported.			
GMC 2 or higher is not supported			

Supported Subtitle Formats

External

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

Supported Photo Formats

File Extension	Туре	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.

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 Music Formats

File Extension	Туре	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	midi	midi	type 0 and type 1

Full available resolution

Optimal resolution is 4 series:1024 x 768@60Hz / 5 series: 1920 x 1080@60Hz. See specification page for full available resolution.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	1024 X 768	1920 X 1080
IBM	720 x 400	31.469	70.087	28.322	-/+	✓	\checkmark
	640 x 480	35.000	66.667	30.240	-/-	✓	\checkmark
MAC	832 x 624	49.726	74.551	57.284	-/-	✓	\checkmark
	1152 x 870	68.681	75.062	100.000	-/-		\checkmark
	640 x 480	31.469	59.940	25.175	-/-	✓	 ✓
	640 x 480	37.861	72.809	31.500	-/-	✓	\checkmark
	640 x 480	37.500	75.000	31.500	-/-	✓	\checkmark
	800 × 600	37.879	60.317	40.000	+/+	✓	\checkmark
	800 x 600	48.077	72.188	50.000	+/+	✓	\checkmark
	800 x 600	46.875	75.000	49.500	+/+	✓	\checkmark
	1024 x 768	48.363	60.004	65.000	-/-	✓	\checkmark
	1024 x 768	56.476	70.069	75.000	-/-	✓	\checkmark
VESA DMT	1024 x 768	60.023	75.029	78.750	+/+	✓	\checkmark
	1152 x 864	67.500	75.000	108.000	+/+		\checkmark
	1280 x 720	45.000	60.000	74.250	+/+		 ✓
	1280 x 800	49.702	59.810	83.500	-/+		\checkmark
	1280 x 1024	63.981	60.020	108.000	+/+		\checkmark
	1280 x 1024	79.976	75.025	135.000	+/+		\checkmark
	1366 x 768	47.712	59.790	85.500	+/+		\checkmark
	1440 x 900	55.935	59.887	106.500	-/+		 ✓
	1600 x 900RB	60.000	60.000	108.000	+/+		\checkmark
	1680 x 1050	65.290	59.954	146.250	-/+		~
	1920 x 1080	67.500	60.000	148.500	+/+		\checkmark

🔊 NOTE

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