

SERIES
4

Plasma TV

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register
your product at

www.samsung.com/register

Model _____ Serial No. _____



User Instructions

■ Screen Image retention

Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours 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.

■ Height

The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height so do not install and operate there.

■ Heat on the top of the PDP TV

The top side of the product may be hot after long period 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 of 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 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 5°C(41°F)

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



Watching the PDP 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 effect to the screen. Damages caused by the above effect are not covered by the Warranty.

■ Afterimage on the Screen.

Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

■ Warranty

- Warranty does not cover any damage caused by image retention.
- Burn-in is not covered by the warranty.

■ Installation

Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates continually such as the airport, the train station etc. Failure to do so may cause a serious damage to your set.

Digital TV (DVB-T) Notice

1. 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 have 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 Program Guide), VOD (Video on Demand) and so on, are not included in this specification. So, they cannot be supported at this moment.
3. Although this TV set meets the latest DVB-T and DVB-C standards[August,2008], the compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts cannot be guaranteed.
4. 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 all providers.
6. For more information, please contact your local Samsung customer care centre.

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Symbol



Press



Note



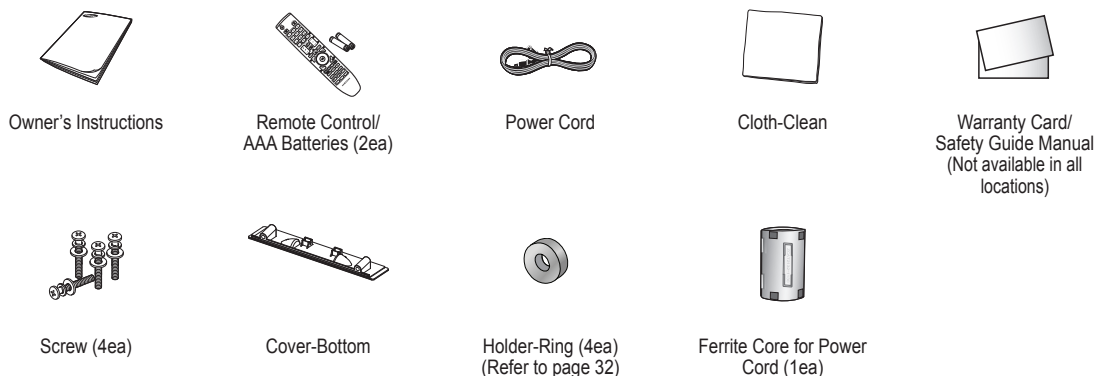
One-Touch Button



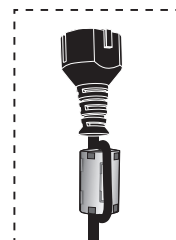
TOOLS

Connecting and Preparing Your TV

Checking Parts

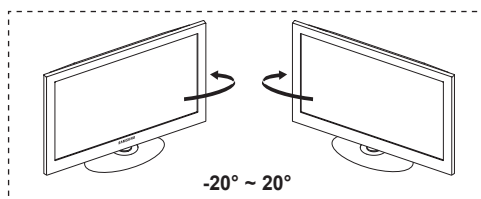


- ☑ The ferrite core is used to shield the cable from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug as shown in the figure.



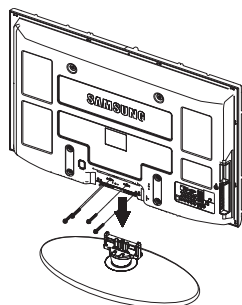
Using the Stand-Base

- ☑ Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always keep the PDP upright.
- ☑ The PDP can rotate 20 degrees in right and left directions.



How to assemble the Stand-Base (depending on the model)

Using the 4 screws for securing the stand base and the monitor, firmly attach the monitor to the stand base.
(The exterior of the set may be different than the picture.)

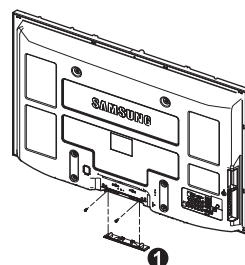


Warning

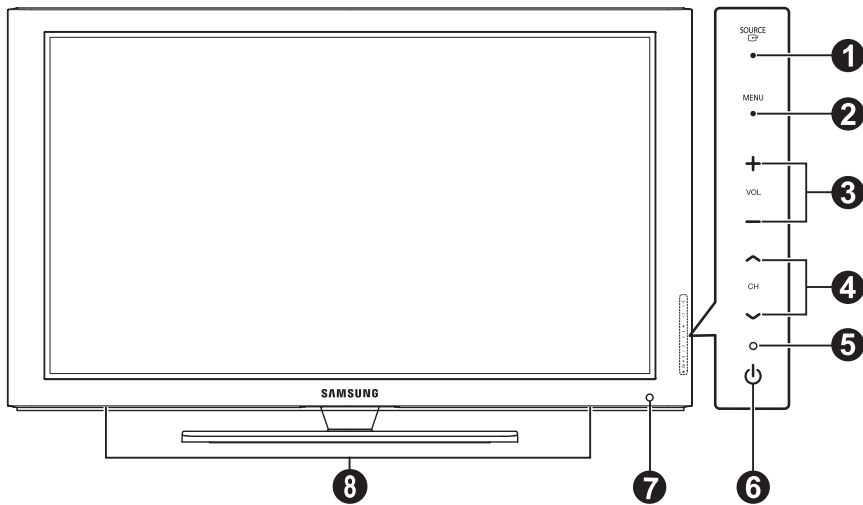
Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

- ☑ Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

In case of installing your TV on the wall, close the cover (❶) on the stand-base connection part using two screws for hiding.



Viewing the Control Panel



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

Front Panel buttons

Touch each button to operate.

- 1 SOURCE**

Toggles between all the available input sources (TV, AV, Component 1, Component 2, HDMI1, HDMI2/DVI).

☑ In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.
- 2 MENU**

Press to see an on-screen menu of your TV's features.
- 3 + VOL -**

Press to increase or decrease the volume. In the on-screen menu, use the **+ VOL -** buttons as you would use the **◀** and **▶** buttons on the remote control.
- 4 ^ CH v**

Press to change channels. In the on-screen menu, use the **^ CH v** buttons as you would use the **▲** and **▼** buttons on the remote control.
- 5 POWER INDICATOR**

Lights up when the power is on.
- 6 (POWER)**

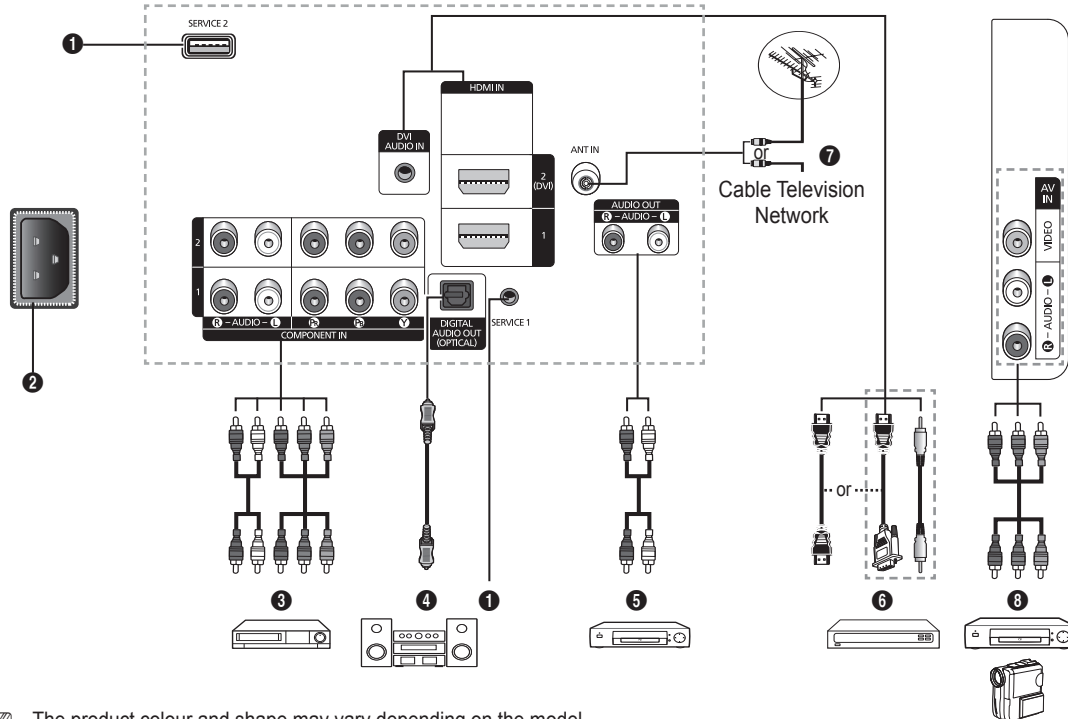
Press to turn the TV on and off.
- 7 REMOTE CONTROL SENSOR**

Aim the remote control towards this spot on the TV.
- 8 SPEAKERS**

Viewing the Connection Panel

TV Rear Panel

TV Side Panel



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

- ☑ Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
- ☑ When connecting an external device, match the colour of the connection terminal to the cable.

1 SERVICE 1, 2

Connector for service.

2 POWER IN

Connect the supplied power cord.

3 COMPONENT IN 1, 2

Audio (AUDIO L/R) and video (Y/Pb/Pr) inputs for Component.

4 DIGITAL AUDIO OUT (OPTICAL)

Connect to a Digital Audio Component.

5 AUDIO OUT(AUDIO R/L)

Connect RCA audio signals from the TV to an external source, such as Audio equipment.

6 HDMI IN 1, 2(DVI)

- No additional Audio connection is needed for an HDMI to HDMI connection.
- When using an HDMI/DVI cable connection, you must use the HDMI IN 2 (DVI) jack.

☑ What is HDMI?

- **High Definition Multimedia interface** allows the transmission of high definition digital video data and multiple channels of digital audio.
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

DVI IN / AUDIO IN

DVI audio outputs for external devices.

7 ANT IN

75Ω Coaxial connector for Aerial/Cable Network.

8 AV IN (VIDEO / AUDIO R/L)

Video and audio inputs for external devices, such as a camcorder or VCR.

Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

Remote Control

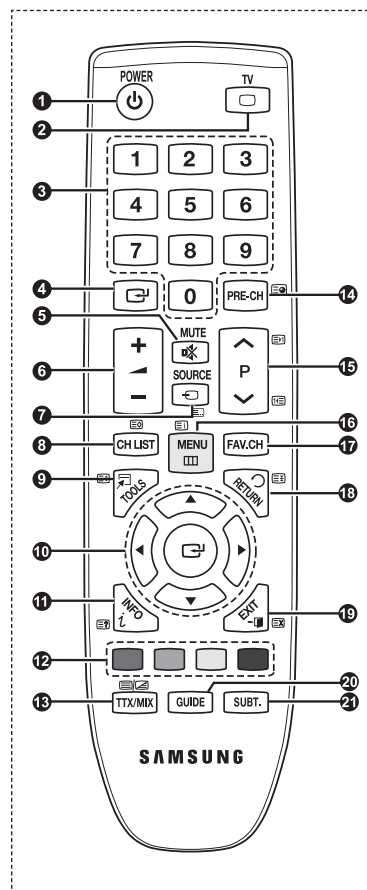
You can use the remote control up to a distance of about 23 feet from the TV.

- ☑ The performance of the remote control may be affected by bright light.

- ❶ POWER button
(turns the TV on and off)
- ❷ Selects the TV mode directly.
- ❸ Number buttons for direct channel access
- ❹ Use to select on-screen menu items
- ❺ Temporary sound switch-off
- ❻ Volume increase
 Volume decrease
- ❼ Available source selection
- ❽ Used to display Channel Lists on the screen
- ❾ Use to quickly select frequently used functions.
- ❿ Control the cursor in the menu
- ⓫ Use to see information on the current broadcast
- ⓫ Use these buttons in the Channel list, etc.
- ⓭ Previous channel
- ⓮ Next channel
 Previous channel
- ⓯ Displays the main on-screen menu
- ⓰ Press to switch to your Favourite channels.
- ⓱ Returns to the previous menu
- ⓲ Exit the on-screen menu
- ⓳ Electronic Program Guide (EPG) display
- ⓴ Digital subtitle display

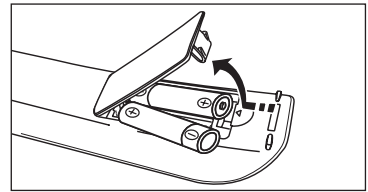
Teletext Functions

- ❷ Exit from the teletext display
(depending on the model)
- ❼ Teletext mode selection (LIST/FLOF)
- ❽ Teletext store
- ❾ Teletext size
- ⓫ Teletext reveal
- ⓫ Fastext topic selection
- ⓫ Teletext display/mix both
teletext information and the normal
broadcast
- ⓭ Teletext sub page
- ⓮ P :Teletext next page
P :Teletext previous page
- ⓯ Teletext index
- ⓱ Teletext hold
- ⓲ Teletext cancel



Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.
 2. Install two AAA size batteries.
 - ☑ Make sure to match the '+' and '-' ends of the batteries with the diagram inside the compartment.
 3. Close the cover.
 - ☑ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.
-
- ☑ If the remote control doesn't work, check the following
 1. Is the TV power on?
 2. Are the plus and minus ends of the batteries reversed?
 3. Are the batteries drained?
 4. Is there a power outage or is the power cord unplugged?
 5. Is there a special fluorescent light or neon sign nearby?
-



Switching On and Off

The mains lead is attached to the rear of your set.

1. Plug the mains lead into an appropriate socket.
 - ☑ The standby indicator lights up on your set.
2. Press the **POWER** button on your set.
 - ☑ You also can press the **POWER** button or the **TV** button on the remote control to turn the TV on. The programme that you were watching last is reselected automatically.
3. Press the numeric button (0~9) or channel up / down (▲ / ▼) button on the remote control or **▲ CH ▼** button on your set.
 - ☑ When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER** button again.

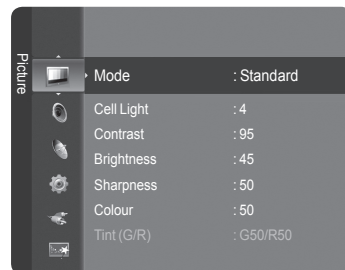
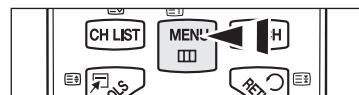
Placing Your Television in Standby Mode

Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1. Press the **POWER** button on the remote control.
 - ☑ The screen is turned off and a red standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER** button, numeric buttons (0~9), **TV** button or channel up / down (▲ / ▼) button again.
 - ☑ Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Viewing the Menus

1. With the power on, press the **MENU** button. The main menu appears on the screen. The menu's left side has icons: **Picture, Sound, Channel, Setup, Input, Support**.
2. Press the **▲** or **▼** button to select one of the icons. Then press the **ENTER** button to access the icon's sub-menu.
3. Press the **EXIT** button to exit.
 - ☑ The on-screen menus disappear from the screen after about one minute.



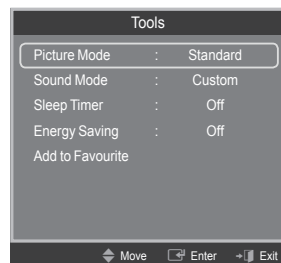
Using the TOOLS Button

You can use the **TOOLS** button to select your frequently used functions quickly and easily. The **Tools** menu changes depending on which external input mode you are viewing.

1. Press the **TOOLS** button. The **Tools** menu will appear.
2. Press the **▲** or **▼** button to select a menu, then press the **ENTER** button.
3. Press the **▲** / **▼** / **◀** / **▶** / **ENTER** buttons to display, change, or use the selected items. For a more detailed description of each function, refer to the corresponding page.



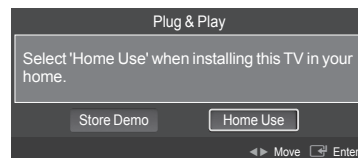
- Picture Mode, see page 15
- Sound Mode, see page 19
- Sleep Timer, see page 23
- Energy Saving, see page 22
- Add to Favourite (or Delete from Favourite), see page 13



Plug & Play Feature

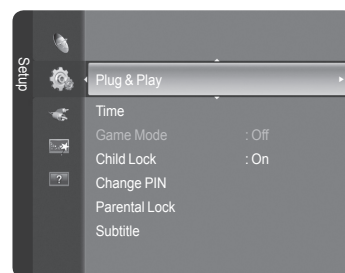
When the TV is initially powered on, basic settings proceed automatically and subsequently.

- ☑ The Screen Saver is activated if there is no remote control key input for longer than 1 minute while Plug & Play is running.
 - ☑ The Screen Saver is activated if there is no operating signal for longer than 15 minutes.
1. Press the **POWER** button on the remote control. The message **Select 'Home Use' when installing this TV in your home.** is displayed.
 2. Press the ◀ or ▶ button to select **Store Demo** or **Home Use**, then the **ENTER** button.
 - ☑ We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
 - ☑ **Store Demo** mode is only intended for use in retail environments.
 - ☑ If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
 - ☑ The factory default setting for the picture will be **Standard**. **Standard** mode is the recommended home viewing picture mode.
 3. **Select country.** menu is displayed. Press the **ENTER** button. Select the appropriate country by pressing the ▲ or ▼ button. Press the **ENTER** button to confirm your choice.
 4. Press the ▲ or ▼ button to select the Antenna source to memorize. Press the **ENTER** button to select **Start**.
 - **Digital & Analogue:** Digital and Analogue channels.
 - **Digital:** Digital channels.
 - **Analogue:** Analogue channels.
 - ☑ The channel search will start and end automatically.
 - ☑ Press the **ENTER** button at any time to interrupt the memorization process.
 - ☑ After all the available channels are stored, the message **Set the Clock Mode.** is displayed.
 5. Press the **ENTER** button. Press the ▲ or ▼ button to select **Auto**, then Press the **ENTER** button.
 - ☑ If you select **Manual**, **Set current date and time** is displayed. (refer to page 23)
 - ☑ If you have received a digital signal, the time will be set automatically. If not, see page 23 to set the clock.
 6. The brief instruction on **How to get the best performance from your new HDTV** is displayed. Press the **ENTER** button.
 - ☑ This menu is available **HD Connection Guide** in the **Support** menu.
 7. The message **Enjoy your TV.** is displayed. When you have finished, press the **ENTER** button.



If you want to return to this feature...

1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.
2. Press the **ENTER** button again to select **Plug & Play**.
3. Enter your 4 digit PIN number. The default PIN number of a new TV set is '0-0-0-0'.
 - ☑ If you want to change PIN number, refer to 21 page.
 - ☑ The **Plug & Play** feature is only available in the **TV** mode.
 - ☑ Any previous settings and adjustments will remain including the picture mode. All **Channel** settings will be lost. For home viewing, ensure the picture mode is set to **Standard**.



Channel Control

Storing Channels

Country

You can change the desired country.

- ☑ The PIN number input screen appears. Enter your 4 digit PIN number.
- ☑ The default PIN number of a new TV set is '0-0-0-0'.

Auto Store

Scans for all channels with active broadcast stations (and availability depends on your country) and stores them in the TV's memory.

You can memorize the Antenna source.

- **Digital & Analogue:** Digital and Analogue channels.
- **Digital:** Digital channels.
- **Analogue:** Analogue channels.
- ☑ If you want to stop **Auto Store**, press the **ENTER** button.
- ☑ The **Stop Auto Store?** message will be displayed.
- ☑ Select **Yes** by pressing the ◀ or ▶ button, then press the **ENTER** button.
- ☑ If a channel is locked using the **Child Lock** function, the PIN input window appears.

Manual Store

Scans for a channel manually and stores it in the TV's memory.

Digital Channel (DTV)

Manual store for digital channels.

- ☑ Digital Channel is only available in DTV mode.
- **Channel:** Set the Channel number using the ▲, ▼ or number (0~9) buttons.
- **Frequency:** Set the frequency using the number buttons.
- **Bandwidth:** Set the bandwidth using the ▲, ▼ or number (0~9) buttons.
- ☑ When it has finished, channels are updated in the channel list.

Analogue Channel (only analogue channel)

Manual store for analogue channel.

- **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons.
- **Colour System** → **Auto / PAL / SECAM / NTSC4.43**: Sets the colour system value using the ▲ or ▼ button.
- **Sound System** → **BG / DK / I / L**: Sets the sound system value using the ▲ or ▼ button.
- **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ▶ button, then press the ▲, ▼ or number (0~9) buttons to select the required number.
 - ☑ You can also select the channel number directly by pressing the number (0~9) buttons.
 - ☑ If there is abnormal sound or no sound, reselect the sound standard required.
- **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** button.
- ☑ Channel mode
 - **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
 - **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

Full Guide / Mini Guide

The EPG (Electronic Programme Guide) information is provided by the broadcasters. Programme entries may appear blank or out of date as a result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available.

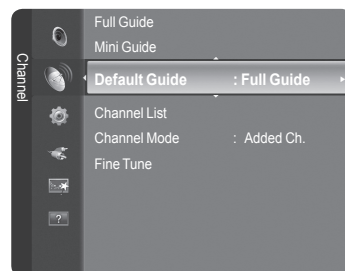
- **Full Guide:** Displays the programme information as time ordered One hour segments. One hours of programme information is displayed which may be scrolled forwards or backwards in time.
- **Mini Guide:** The information of each programme is displayed by each line on the current channel Mini Guide screen from the current programme onwards according to the programme starting time order.



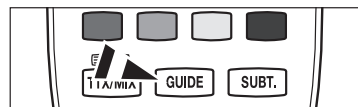
Continued...

❑ Default Guide

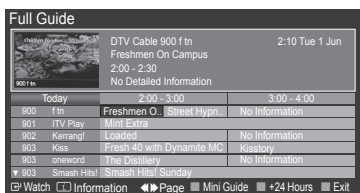
- **Mini Guide / Full Guide:** You can decide whether to display either the **Mini Guide** or the **Full Guide** when the **GUIDE** button on the remote control is pressed.



☞ You can also display the guide menu simply by pressing the **GUIDE** button.



Using the Full / Mini Guide



▲ / ▼ / ◀ / ▶, (ENTER)	Select a programme by pressing the ▲/▼/◀/▶ button. If the next programme is selected, it is scheduled with the clock icon displayed. If the ENTER button is pressed again, press the ▲/▼/◀/▶ button to select Cancel Schedules , the scheduling is canceled with the clock icon gone. For details about scheduling programmes, refer to the section.
RED	Toggle between the Mini Guide or Full Guide .
GREEN	Full Guide: Scroll backwards quickly (-24 hours). Mini Guide: Display previous page quickly.
YELLOW	Full Guide: Scroll forwards quickly (+24 hours). Mini Guide: Display next page quickly.
BLUE	Exit the guide.
INFO	INFO button for the detailed information. Channel Number, Running Time, Status Bar, Parental Level, Video Quality Information (HD/SD), Sound Modes, Subtitle or Teletext, languages of Subtitle or Teletext and brief summary of the highlighted programme are included on the detailed information. "... " will be appeared if the summary is long.

❑ Channel List

For the detailed procedures on using the **Channel List**, refer to the descriptions on pages 13~14.

❑ Channel Mode

When the P ^/∨ button is pressed, Channels will be switched within the selected channel list.

- **Added Ch.:** Channels will be switched within the memorized channel list.
- **Favourite Ch.:** Channels will be switched within the favourite channel list.

❑ Fine Tune (only analogue channels)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

- ☑ Fine tuned channels that have been saved are marked with an asterisk * on the right-hand side of the channel number in the channel banner.
- ☑ If you do not store the fine-tuned channel in memory, adjustments are not saved.
- ☑ To reset the fine-tuning, select **Reset** by pressing the ▼ button and then press the **ENTER** button.

Managing Channels

Using this menu, you can Add / Delete or set Favourite channels and use the programme guide for digital broadcasts.

- Select a channel in the **All Channels**, **Added Channels**, **Favourites**, or **Programmed** screen by pressing the ▲ or ▼ buttons, and pressing the ENTER button. Then you can watch the selected channel.

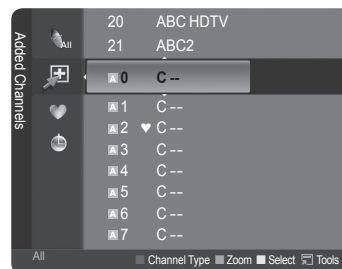
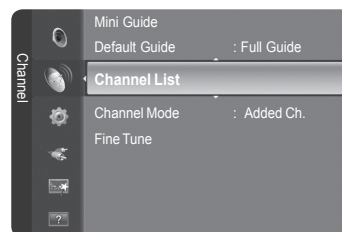
- All Channels**: Shows all currently available channels.
- Added Channels**: Shows all added channels.
- Favourites**: Shows all favourite channels.
- Programmed**: Shows all current reserved programmes.

Using the Colour buttons with the Channel List

- Red** (Channel Type): Toggle between your **TV**, **Radio**, **Data / Other** and **All**.
- Green** (Zoom): Enlarges or shrinks a channel number.
- Yellow** (Select): Selects multiple channel lists.
- TOOLS** (Tools): Displays the **Delete** (or **Add**), **Add to Favourite** (or **Delete from Favourite**), **Timer Viewing**, **Edit Channel Name**, **Edit Channel Number**, **Sort**, **Lock** (or **Unlock**), **Select All** (or **Deselect All**) or **Auto Store** menu.
(The Options menus may differ depending on the situation.)

Channel Status Display Icons

	An Analogue channel.		A channel selected by pressing the yellow button.
	A channel set as a Favourite.		A programme currently being broadcast.
	A locked channel.		A reserved programme



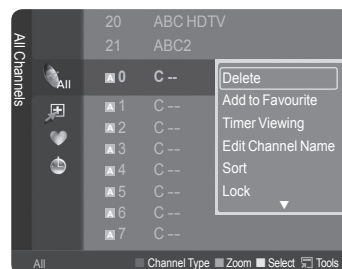
Channel List Tools Menu (in All Channels / Added Channels / Favourites)

- Press the **TOOLS** button to use the tools menu.
- Option menu items may differ depending on the channel status.

Add / Delete

You can delete or add a channel to display the channels you want.

- All deleted channels will be shown on **All Channels** menu.
- A gray-coloured channel indicates the channel has been deleted.
- The **Add** menu only appears for deleted channels.
- You can also delete a channel to the **Added Channels** or **Favourite** menu in the same manner.



Add to Favourite / Delete from Favourite

You can set channels you watch frequently as favourites.

- Press the **TOOLS** button to display **Tools** menu.
You can also add the favourite channel by selecting **Tools** → **Add to Favourite** (or **Delete from Favourite**).

- The "♥" symbol will be displayed and the channel will be set as a favourite.
- All favourite channels will be shown on **Favourite** menu.

Timer Viewing

If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme set the current time first. (See page 23)

- Only memorized channels can be reserved.
- You can set the channel, month, day, year, hour and minute directly by pressing the number buttons on the remote control.
- Reserving a programme will be shown on **Programmed** menu.
- Digital Programme Guide and Viewing Reservation**
When a digital channel is selected, and you press the ► button, the Programme Guide for the channel appears.
You can reserve a programme according to the procedures described above.

Continued...

■ **Edit Channel Name** (only analogue channel)

Channels can be labeled so that their call letters appear whenever the channel is selected.

☑ The names of digital broadcasting channels are automatically assigned and cannot be labeled.

■ **Edit Channel Number** (only digital channel)

You can also edit the channel number by pressing the number buttons on the remote control.

■ **Sort** (only analogue channel)

This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

■ **Lock / Unlock**

You can lock a channel so that the channel cannot be selected and viewed. This function is available only when the **Child Lock** is set to **On**. (see page 21)

☑ The PIN number input screen appears. Enter your 4 digit PIN number.

☑ The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN, by selecting **Change PIN** from the menu.

☑ The "🔒" symbol will be displayed and the channel will be locked.

■ **Select All / Deselect All**

- **Select All:** You can select all the channels in the channel list.

- **Deselect All:** You can deselect all the selected channels in the channel list.

☑ You can perform the add / delete, add to Favourites / delete from Favourites, or lock / unlock function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time.

☑ The ✓ mark appears to the left of the selected channels.

☑ You can only select **Deselect All** when there is a selected channel.

■ **Auto Store**

☑ For further details on setting up options, refer to page 11.

☑ If a channel is locked using the **Child Lock** function, the PIN input window appears.

□ **Channel List Tools Menu** (in **Programmed**)

You can view, modify or delete a reservation.

☑ Press the **TOOLS** button to use the tools menu.

■ **Change Info**

Select to change a viewing reservation.

■ **Cancel Schedules**

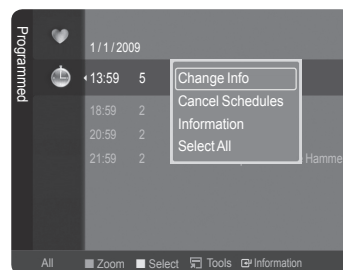
Select to cancel a viewing reservation.

■ **Information**

Select to view a viewing reservation. (You can also change the reservation information.)

■ **Select All / Deselect All**

You can select (or deselect) all channels in the channel list.



Picture Control

Changing the Picture Settings

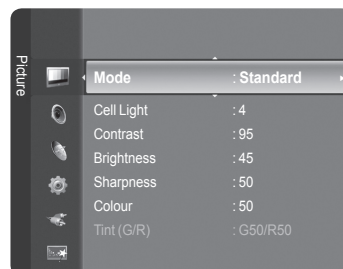
❑ Mode

You can select the type of picture which best corresponds to your viewing requirements.

- **Dynamic:** Selects the picture for high-definition in a bright room.
- **Standard:** Selects the picture for the optimum display in a normal environment.
- **Movie:** Selects the picture for viewing movies in a dark room.

🔧 Press the **TOOLS** button to display **Tools** menu.

You can also set the picture mode by selecting **Tools** → **Picture Mode**.



❑ Cell Light / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

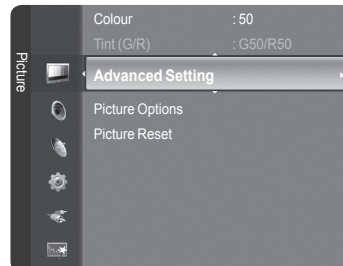
Your television has several setting options that allow you to control the picture quality.

- **Cell Light:** Adjusts the pixel brightness.
 - **Contrast:** Adjusts the contrast level of the picture.
 - **Brightness:** Adjusts the brightness level of the picture.
 - **Sharpness:** Adjusts the edge definition of the picture.
 - **Colour:** Adjusts Colour saturation of the picture.
 - **Tint (G/R):** Adjusts the Colour tint of the picture.
- ☑ Select a picture mode to be adjusted first. The adjusted values are saved for each picture mode.
- ☑ When you make changes to **Cell Light**, **Contrast**, **Brightness**, **Sharpness**, **Colour**, or **Tint (G/R)**, the OSD will be adjusted accordingly.
- ☑ In Analogue TV, AV modes of the PAL system, you cannot use the Tint Function.
- ☑ Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- ☑ The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and then this will reduce the overall running cost.

❑ Advanced Setting

You can adjust the detailed settings for your screen including the color and contrast.

☑ **Advanced Setting** is available in **Standard** or **Movie** mode.



■ Black Tone → Off / Dark / Darker / Darkest

You can select the black level on the screen to adjust the screen depth.

■ Dynamic Contrast → Off / Low / Medium / High

You can adjust the screen contrast so that the optimal contrast is provided.

■ Gamma

You can adjust the primary colour Intensity.

■ Colour Space

Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite colour space to experience the most natural colour.

- **Auto:** Automatically sets the color range depending on the input video source.
- **Native:** Sets the color range wider than the that of the input video source.

■ White Balance

You can adjust the colour temperature for more natural picture colours.

- **R-Offset / G-Offset / B-Offset / R-Gain / G-Gain / B-Gain:** Changing the adjustment value will refresh the adjusted screen.
- **Reset:** The previously adjusted white balance will be reset to the factory defaults.

■ Flesh Tone

You can adjust the flesh tone to be more or less red.

☑ Changing the adjustment value will refresh the adjusted screen.

■ Edge Enhancement → Off / On

You can emphasize object boundaries in the picture.

Continued...

❑ Picture Options

You can customize the additional picture settings to suit your preference.

■ Colour Tone → Cool / Normal / Warm1 / Warm2

You can select the most comfortable colour tone to your eyes.

- ☑ The adjusted values are stored according to the selected Picture mode.
- ☑ **Warm1** or **Warm2** is only activated when the picture mode is **Movie**.

■ Size

You can select the picture size which best corresponds to your viewing requirements.

- **16:9**: Sets the picture to the 16:9 aspect ratio.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- **4:3**: Sets the picture to the 4:3 aspect ration.
- **Screen Fit**: Use the function to see the full image without any cutoff when HDMI (720p/1080i/1080p) or Component (1080i/1080p) signals are input.
 - ☑ The picture size options may vary depending on the input source.
 - ☑ The items available may differ depending on the selected mode.
 - ☑ Settings can be adjusted and stored for each external device you have connected to an input of the TV.
 - ☑ Temporary image retention may occur when viewing a static image on the set for more than two hours.
 - ☑ After selecting **Wide Zoom** mode: Press the ► button to select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the screen up / down. Then press the **ENTER** button.
 - ☑ After selecting **Zoom** mode: Press the ► button to select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to select **Size**, then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button.
 - ☑ After selecting **Screen Fit** in **HDMI** (1080i / 1080p) or **Component** (1080i / 1080p) mode: Select **Position** by pressing the ◀ or ▶ button. Use the ▲, ▼, ◀ or ▶ button to move the picture.
 - ☑ **Reset**: Press the ◀ or ▶ button to select **Reset**, then press the **ENTER** button. You can initialize the setting.
 - ☑ If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

■ Digital NR → Off / Low / Medium / High / Auto

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

- ☑ When the signal is weak, select one of the other options until the best picture is displayed.

■ HDMI Black Level → Normal / Low

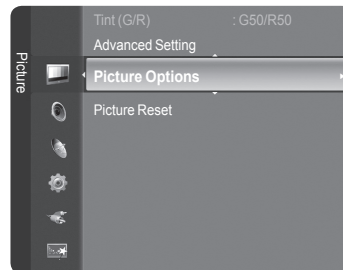
You can directly select the black level on the screen to adjust the screen depth.

- ☑ This function is active only when the external input connects to HDMI (RGB signals).

■ Film Mode

You can optimize the picture mode for watching movies.

- **Off**: Turn the film mode function off.
- **Auto**: Automatically adjusts the picture for the best quality when watching a film.
- ☑ **Film Mode** is supported in TV, AV, COMPONENT(480i / 1080i) and HDMI(480i / 1080i).
- ☑ **Film Mode** is not supported in DTV channel with resolution 576p/720p.



Continued...

■ Screen Burn Protection

Configures the Screen Burn Protection Options to prevent and reduce pixel burn.

When an image remains in one position too long, it may cause a permanent burn on the screen.

- **Pixel Shift:** To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical) and side to side (Horizontal). The Time setting allows you to program the time between movement of the picture in minutes.
 - ☑ Set **Pixel Shift** to On by pressing the ▲ or ▼ button, then press the **ENTER**  button.
 - ☑ Select the required option by pressing the ▲ or ▼ button, then press the **ENTER**  button.
 - ☑ Available options: **Horizontal, Vertical, Time**.
 - ☑ Optimum condition for pixel shift

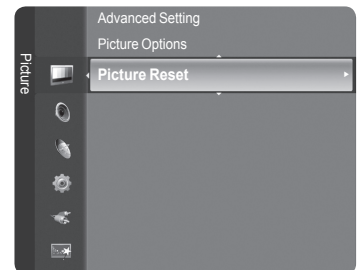
	Item	TV/AV/Component/HDMI
Horizontal	0~4	2
Vertical	0~4	2
Time (minute)	1~4 min	3 min

- ☑ The Pixel Shift value may differ depending on the monitor size (inches) and mode.
- ☑ This function is not available in the **Screen Fit** mode.
- **Scrolling:** This function helps remove after images on the screen by moving all the pixels on the PDP according to a pattern. Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Side Gray:** When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.
 - **Dark:** When you set the screen ratio to 4:3, it darkens the left and right sides.
 - **Light:** When you set the screen ratio to 4:3, it brightens the left and right sides.

□ Picture Reset → Reset Picture Mode / Cancel

Resets all picture settings to the default values.

- ☑ Select a picture mode to be reset. The reset is performed for each picture mode.



PC Display

□ Setting Up Your PC Software (Based on Windows XP)

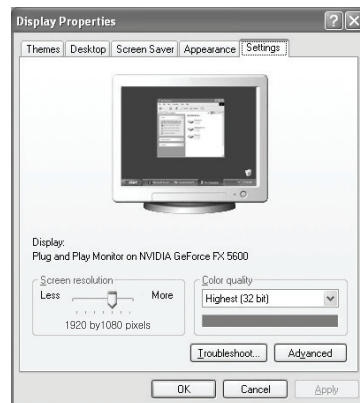
The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. First, click on 'Control Panel' on the Windows start menu.
2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
3. When the control panel window appears, click on 'Display' and a display dialog-box will appear.
4. Navigate to the 'Settings' tab on the display dialog-box.

The correct size setting (resolution)

Optimum : PS42B430 : 1024x768 pixels, PS50B430 : 1360x768 pixels.

If a vertical-frequency option exists on your display settings dialog box, the correct value is **60** or **60 Hz**. Otherwise, just click **OK** and exit the dialog box.



□ Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution. The resolutions in the table are recommended.

■ D-Sub and HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)	PS42B430	PS50B430
IBM	640 x 350	31.469	70.086	25.175	+ / -	✓	✓
	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	- / -	✓	✓
		37.861	72.809	31.500	- / -	✓	✓
		37.500	75.000	31.500	- / -	✓	✓
	800 x 600	37.879	60.317	40.000	+ / +	✓	✓
		48.077	72.188	50.000	+ / +	✓	✓
		46.875	75.000	49.500	+ / +	✓	✓
	1024 x 768	48.363	60.004	65.000	- / -	✓	✓
		56.476	70.069	75.000	- / -	✓	✓
		60.023	75.029	78.750	+ / +	✓	✓
	1360 x 768	47.712	60.015	85.500	+ / +		✓
VESA CVT	720 x 576	35.910	59.950	32.750	- / +	✓	✓
	1280 x 720	44.772	59.855	74.500	- / +		✓
		56.456	74.777	95.750	- / +		✓
VESA GTF	1280 x 720	52.500	70.000	89.040	- / +		✓

- Ⓢ When using an HDMI / DVI cable connection, you must use the HDMI IN 2 (DVI) jack.
- Ⓢ The interlace mode is not supported.
- Ⓢ The set might operate abnormally if a non-standard video format is selected.

Sound Control

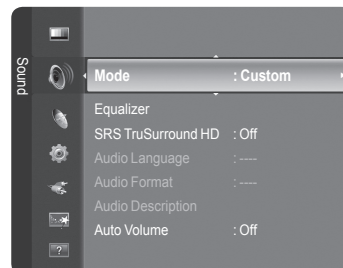
Changing the Sound Setting

☐ **Mode → Standard / Music / Movie / Clear Voice / Custom**

You can select the type of special sound effect to be used when watching a given broadcast.

 Press the **TOOLS** button to display **Tools** menu.

You can also configure the sound mode by selecting **Tools → Sound Mode**.



☐ **Equalizer**

The sound settings can be adjusted to suit your personal preferences.

- **Mode:** You can select a sound mode to suit your personal preferences.
- **Balance:** Controls the balance between the right and left speakers.
- **100Hz / 300Hz / 1KHz / 3KHz / 10KHz** (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies.
- **Reset:** Resets the equalizer settings to the default values.

☐ **SRS TruSurround HD → Off / On**

SRS TruSurround HD is the combined technology of TruSurround and FOCUS, TruBass.

SRS TruSurround HD is down mixing technology that makes the Surround Sound effect of virtual 5.1 channel via two speakers. This function provide not only rich deep bass at a low-pitched sound but also improve the resolution at a high-pitched sound.



TruSurround HD, **SRS** and the  symbol are trademarks of SRS Labs, Inc.
TruSurround HD technology is incorporated under license from SRS Labs, Inc.

☐ **Audio Language (only digital channel)**

You can change the default value for audio languages. Displays the language information for the incoming stream.

☒ You can only select the language among the actual languages being broadcast.

☐ **Audio Format → MPEG / Dolby Digital (only digital channel)**

When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

☒ You can only select the language among the actual languages being broadcast.



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

☐ **Audio Description (only digital channel)**

This is an auxiliary audio function that provides an additional audio track for visually challenged persons. This function handles the Audio Stream for the AD (Audio Description), when it is sent along with the Main audio from the broadcaster. Users can turn the Audio Description On or Off and control the volume.

☒ **Audio Description → Off / On**

Turn the audio description function on or off.

☒ **Volume**

You can adjust the audio description volume.

☒ **Volume** is active when **Audio Description** is set to **On**.

☐ **Auto Volume → Off / On**

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

Continued...

❑ **Speaker Select** → **External Speaker / TV Speaker**

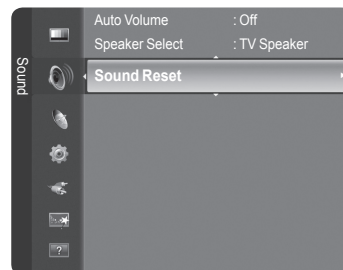
If you want to hear the sound through separate speakers, cancel the internal amplifier.

- ☑ The **-** **+**, **MUTE** buttons do not operate when the **Speaker Select** is set to **External Speaker**.
- ☑ If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

	TV's Internal Speakers	Audio Out (Optical, L / R Out) to Sound System
	TV / AV / Component / HDMI	TV / AV / Component / HDMI
TV Speaker	Speaker Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute

❑ **Sound Reset** → **Reset All / Reset Sound Mode / Cancel**

You can restore the Sound settings to the factory defaults.



Selecting the Sound Mode

When you set to **Dual I II**, the current sound mode is displayed on the screen.

	Type of broadcast	On-screen indication		
NICAM Stereo	Regular broadcast (Standard audio)	Mono (Normal use)		
	Regular + NICAM Mono	NICAM	↔	Mono (Normal)
	NICAM-Stereo	NICAM Stereo	↔	Mono (Normal)
	NICAM Dual-I/II	NICAM Dual-1	→	NICAM Dual-2 → Mono (Normal)
A2 Stereo	Regular broadcast (Standard audio)	Mono (Normal use)		
	Bilingual or DUAL-I/II	Dual I	↔	Dual II
	Stereo	Stereo	↔	Mono (Forced mono)

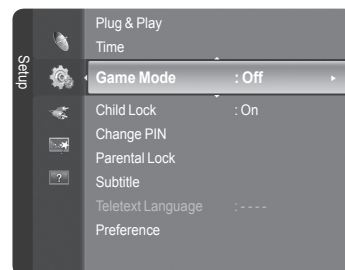
- ☑ If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- ☑ This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- ☑ This function is only available in Analog TV mode.

Function Description

Configuring the Setup Menu

Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting the game menu.



When the Game Mode is On

- **Picture Mode** is automatically changed to **Standard** and users cannot change the mode.
- **Sound Mode** is automatically changed to **Custom** and users cannot change the mode. Adjust the sound using the equalizer.
- The Reset in the Sound menu is activated. Reset function initializes the Equalizer settings to the factory default setting.
- ☑ **Game Mode** is not available in regular TV mode or **Game Mode** set to **Off**.
- ☑ If the picture is poor when external device is connected to TV, check if Game Mode is On.
- ☑ This function supports only game function.
- ☑ If you display the TV menu in Game mode, the screen shakes slightly.
- ☑ The mark (🎮) appears on the screen which means that Game Mode is on with the selected source.

Child Lock → Off / On

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

- ☑ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- ☑ The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN by selecting **Change PIN** from the menu.
- ☑ You can lock some channels in Channel List. (refer to page 14)
- ☑ **Child Lock** is available only in TV mode.

Change PIN

You can change your personal ID number that is required to set up the TV.

- ☑ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- ☑ The default PIN number of a new TV set is '0-0-0-0'.
- ☑ If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to '0-0-0-0': **POWER** (Off), **MUTE**, **8**, **2**, **4**, **POWER** (On).

Parental Lock

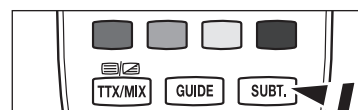
This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by a 4-digit PIN (Personal Identification Number) code that is defined by the user.

- ☑ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- ☑ The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN by selecting **Change PIN** from the menu.
- ☑ When the parental ratings are set, the "L" symbol is displayed.
- ☑ **Allow All**: Press to unlock all TV ratings.
- ☑ **Block All**: Press to lock all TV ratings.

Subtitle

You can activate and deactivate the subtitles. Use this menu to set the Subtitle Mode. **Normal** under the menu is the basic subtitle and **Hard of hearing** is the subtitle for a hearing-impaired person.

- **Subtitle → Off / On**: Switches subtitles off or on.
- **Mode → Normal / Hard of hearing**: Sets the subtitle mode.
- **Subtitle Language**: Set the subtitle language.
- ☑ If the programme you are watching does not support the **Hard of hearing** function, **Normal** automatically activates even though **Hard of hearing** mode is selected.
- ☑ English is the default in cases where the selected language is unavailable in the broadcast.
- ☑ You can select these options simply by pressing the **SUBT.** button on the remote control.



Continued...

❑ Teletext Language

You can set the Teletext language by selecting the language type.

☑ English is the default in cases where the selected language is unavailable in the broadcast.

❑ Preference

■ Primary Audio Language / Secondary Audio Language / Primary Subtitle Language / Secondary Subtitle Language / Primary Teletext Language / Secondary Teletext Language

Using this feature, users can select one of the languages. The language selected here is the default when the user selects a channel.

If you change the language setting, the Subtitle Language, Audio Language, and the Teletext Language of the Language menu are automatically changed to the selected language.

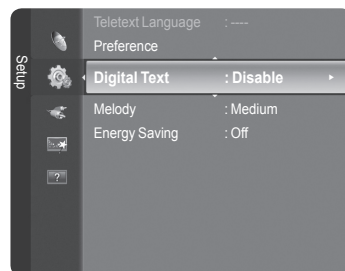
The Subtitle Language, Audio Language, and the Teletext Language of the Language menu show a list of languages supported by the current channel and the selection is highlighted. If you change this language setting, the new selection is only valid for the current channel. The changed setting does not change the setting of the Primary Subtitle Language, Primary Audio Language, or the Primary Teletext Language of the Preference menu.

❑ Digital Text → Disable / Enable (Not available in all locations)

If the programme is broadcast with digital text, this feature is enabled.

☑ MHEG (Multimedia and Hypermedia Information Coding Experts Group)

An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including VOD (Video-On- Demand), ITV (Interactive TV), EC (Electronic Commerce), tele-education, tele-conferencing, digital libraries and network games.



❑ Melody → Off / Low / Medium / High

The TV power on / off melody sound can be adjusted.

☑ The Melody does not play

- When no sound is output from the TV because the  MUTE button has been pressed.
- When no sound is output from the TV because the  (Volume) button has been pressed.
- When the TV is turned off by **Sleep Timer** function.

❑ Energy Saving

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption.

- **Off:** Turns off the energy saving function.
- **Low:** Sets the TV to low energy saving mode.
- **Medium:** Sets the TV to medium energy saving mode.
- **High:** Sets the TV to high energy saving mode.

 Press the **TOOLS** button to display **Tools** menu.

You can also set the energy saving option by selecting **Tools** → **Energy Saving**.

Setting the Time

❑ Clock

Setting the clock is necessary in order to use the various timer features of the TV.

- ☑ The current time will appear every time you press the **INFO** button.
- ☑ If you disconnect the power cord, you have to set the clock again.

■ Clock Mode

You can set up the current time manually or automatically.

- **Auto:** Set the current time automatically using the time from the digital broadcast.
- **Manual:** Set the current time to a manually specified time.

■ Clock Set

You can set the current time manually.

- ☑ Set up this item when you have set **Clock Mode** to **Manual**.
- ☑ You can set the Day, Month, Year, Hour, Minute directly by pressing the number buttons on the remote control.

■ Time Zone

You can select your time zone.

- ☑ The Antenna or cable must be connected in order to set the time automatically.

❑ Sleep Timer → Off / 30 min / 60 min / 90 min / 120 min / 150 min / 180 min

The sleep timer automatically shuts off the TV after a preset time.

- ☑ The TV automatically switches to standby mode when the timer reaches 0.
- ☑ To cancel the **Sleep Timer** function, select **Off**.

🔧 Press the **TOOLS** button to display **Tools** menu.
You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.

❑ Timer 1 / Timer 2 / Timer 3

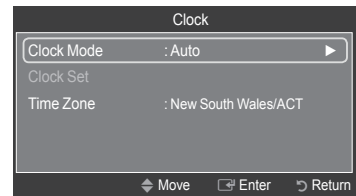
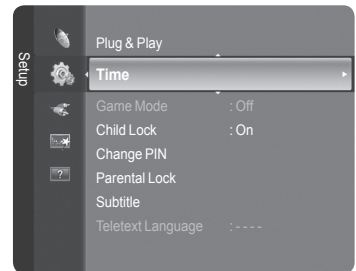
Three different on / off timer settings can be made.

- **On Time:** Set the hour, minute, and Activate / Inactivate.
(To activate timer with the setting you've chosen, set to **Activate**.)
- **Off Time:** Set the hour, minute, and Activate / Inactivate.
(To activate timer with the setting you've chosen, set to **Activate**.)
- **Volume:** Set the required volume level.
- **Antenna:** Select ATV or DTV.
- **Channel:** Select the desired channel.
- **Repeat:** Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun**, or **Manual**.
 - ☑ When **Manual** is selected, press the ► button to select the desired day of the week. Press the **ENTER**  button over the desired day and the ✓ mark will appear.
 - ☑ You must set the clock first.

- ☑ You can set the hour, minute, and channel by pressing the number buttons on the remote control.

☑ Auto Power Off

When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.



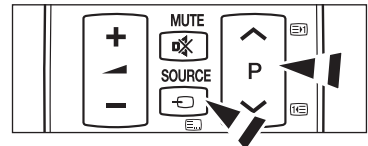
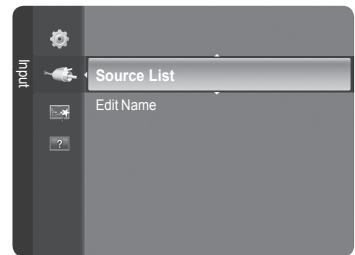
Source List / Edit Name

□ Source List

Use to select TV or other external input sources such as DVD players or Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.

■ TV, AV, Component1, Component2, HDMI1, HDMI2/DVI.

- ☑ You can choose only those external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom.
- ☑ **Using the Colour buttons on the remote with the Source list**
 - **Red** (Refresh): Refreshes the connecting external devices.
 - **TOOLS** (Tools): Displays the **Edit Name** and **Information** menus.
- ☑ Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the **TV** button, number buttons (**0~9**), and the **P** **^** / **^** button on the remote control.



□ Edit Name

■ VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI / TV / IPTV / Blu-ray / HD DVD / DMA

You can name the device connected to the input jacks to make your input source selection easier.

- ☑ When a PC with a resolution of PS42B430: 640x480@60Hz, PS50B430: 640x480@60, 1280x720@60 is connected to the **HDMI IN 2 (DVI)** port, you should set the **HDMI2/DVI** mode to **PC** in the **Edit Name** of the **Input** mode.
- ☑ When connecting an HDMI/DVI cable to the **HDMI IN 2(DVI)** port, you should set the **HDMI2/DVI** mode to **DVI** or **DVI PC** in the **Edit Name** of the **Input** mode. In this case, a separate sound connection is required.

Supported Program

❑ Self Diagnosis

■ Picture Test

- ☑ If you think you have a picture problem, perform the picture test. Check the color pattern on the screen to see if the problem still exists.
- ☑ **Does the problem still exist with this test photo?** appears on the screen. If the test pattern does not appear or there is noise in the test pattern, select **Yes**. If the test pattern is properly displayed, select **No**.
 - **Yes** : There may be a problem with the TV. Contact Samsung's Call Center for assistance.
 - **No** : There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

■ Sound Test

If you think you have a sound problem, please perform the sound test. You can check the sound by playing a built-in melody sound through the TV.

- ☑ **Does the problem still exist with this sound test?** appears on the screen. If during the sound test you can hear sound only from one speaker or not at all, select **Yes**. If you can hear sound from the speakers, select **No**.
 - **Yes** : There may be a problem with the TV. Contact Samsung's Call Center for assistance.
 - **No** : There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.
- ☑ If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV speaker** in the Sound menu.
- ☑ The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.

■ Signal Strength (Digital channels only)

You can adjust your antenna to improve the reception of available digital channels.

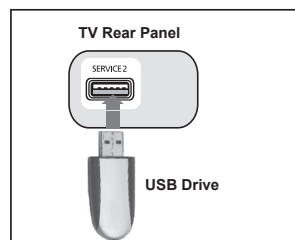
- ☑ If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.

❑ Software Upgrade

To keep your product up-to-date with new Digital Television features then software upgrades are periodically broadcast as part of the normal Television signal. It will automatically detect these signals and display the software upgrade banner. You are given the option to install the upgrade.

■ By USB

Insert a USB drive containing the firmware upgrade into TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete. When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.



■ By Channel

Upgrades the software using the broadcasting signal.

■ Standby Mode Upgrade

To continue software upgrade with master power on, select on by pressing the **▲** or **▼** button. 45 minutes after entering standby mode, a manual upgrade is automatically conducted. Since the power of the unit is turned on internally, the screen may be on slightly for the product. This phenomenon may continue for more than 1 hour until the software upgrade is completed.

■ Alternative Software

Replace the current software with the alternative.

❑ HD Connection Guide

The brief instruction on **How to get the best performance from your HD TV** is displayed. We offer the connection method for HD devices.

❑ Contact Samsung

You can know the Samsung Call center, website and information for product.

- ☑ You can move the previous or next page by pressing the **▲** or **▼** button.

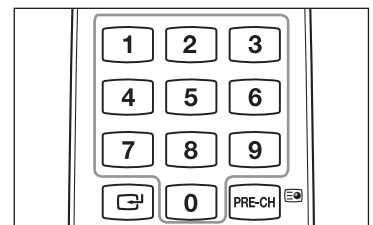
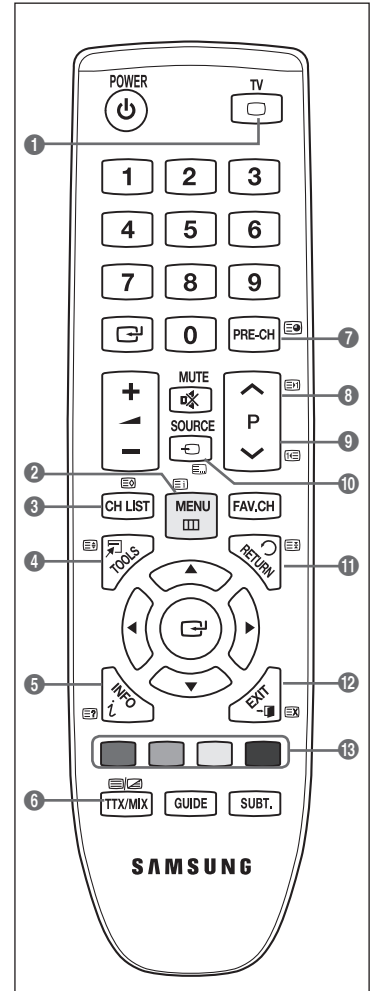
Recommendations for Use

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

- ☑ For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

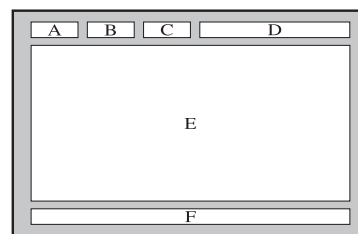
- 1** **(exit)**
Exit from the teletext display.
 - 2** **(index)**
Used to display the index (contents) page at any time while you are viewing teletext.
 - 3** **(store)**
Used to store the teletext pages.
 - 4** **(size)**
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.
 - 5** **(reveal)**
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.
 - 6** **(teletext on/mix)**
Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.
 - 7** **(sub-page)**
Used to display the available sub-page.
 - 8** **(page up)**
Used to display the next teletext page.
 - 9** **(page down)**
Used to display the previous teletext page.
 - 10** **(mode)**
Press to select the teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the (store) button.
 - 11** **(hold)**
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.
 - 12** **(cancel)**
Used to display the broadcast when searching for a page.
 - 13** **Colour buttons (red/green/yellow/blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.
- ☑ You can change teletext pages by pressing the numeric buttons on the remote control.



Continued...

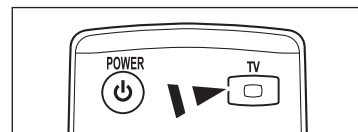
The teletext pages are organized according to six categories:

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.



- ☑ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
 - Entering the page number
 - Selecting a title in a list
 - Selecting a coloured heading (FASTEXT system)

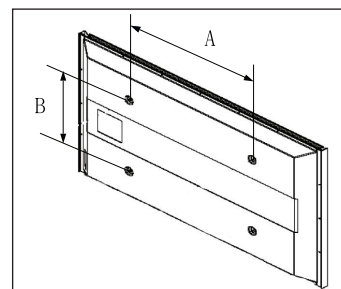
- ☑ Press the **TV** button to exit from the teletext display.



Wall Mount Kit Specifications (VESA)

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.

Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	19"~22"	100 * 100	M4	4
	23"~29"	200 * 100		
	30"~40"	200 * 200	M6	
	46"~55"	400 * 400	M8	
	57"~70"	800 * 400		
	80" ~	1400 * 800		
PDP-TV	42"~ 50"	400 * 400	M8	4
	58"~ 63"	600 * 400		
	70" ~	800 * 400		
	80" ~	1400 * 800		



- ☑ We provided the standard dimensions for wall mount kits as shown in the table above.
- ☑ When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- ☑ 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 use screws that do not comply with the VESA standard screw specifications.
Do not use 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.
- ☑ Our 57" and 63" models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- ☑ Do not exceed 15 degrees tilt when mounting this TV.

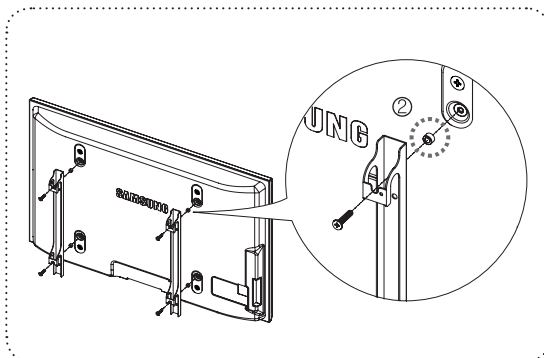
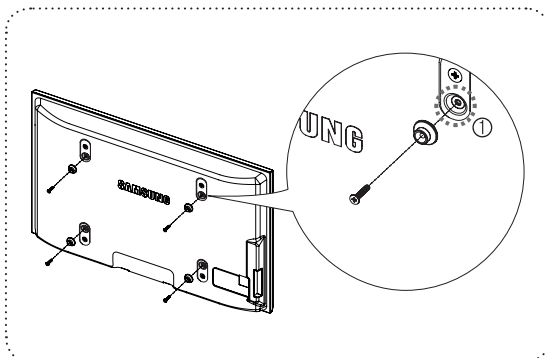


Do not install your Wall Mount Kit while your TV is turned on.
 It may result in personal injury due to electric shock.

Preparing before installing Wall- Mount on the wall

Case A. Installing SAMSUNG Wall-Mount

Case B. Installing other company's Wall-Mount

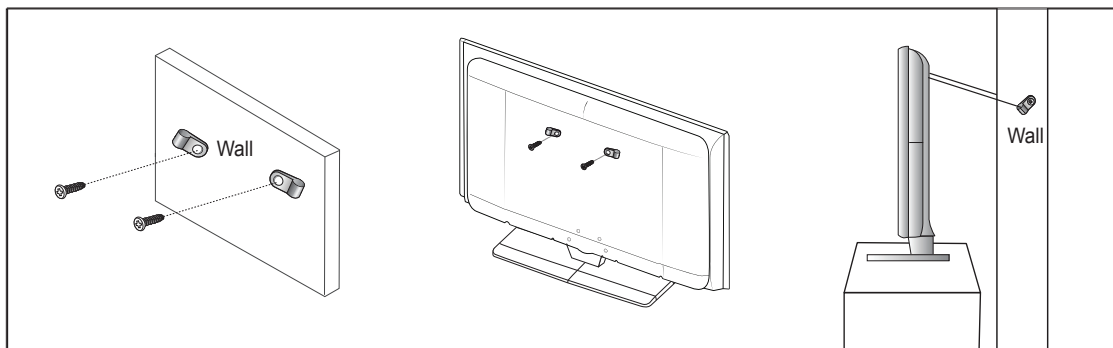


1. Install Wall Mount with the torque range of 15kgf-cm or less. Make sure that parts can be damaged if the torque is out of the specified range.
2. Accessory Kit contains Holder-Ring [2] for installing other company's Wall-Mount on Samsung TV. (Case B)
 - ☒ Screw down the hole [1] when installing wall-mount on the wall.

Securing the TV to the Wall



Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing 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 center 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.
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.
 - ☒ 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.

Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions.

Problem	Possible Solution
Picture Quality First of all, please perform the Picture Test to 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.	
TV image does not look as good as it did in the store.	• If you have an analog Cable/Set top box, upgrade to an Box. Use HDMI or Component cables to deliver HD picture quality. • Cable/Satellite subscriber : Try HD (High Definition) stations from channel line up. • Antenna connection: Try HD stations after performing Auto program ☒ Many HD channels are upscaled from SD (Standard Definition) contents. • Adjust Cable/Set top video output resolution to 1080i or 720p.
Picture is distorted: macroblock,small block, dots,pixelization.	• Compression of video contents may cause picture distortion especially on fast moving pictures such as sports and action movies. • Low signal level can cause picture distortion. This is not a TV issue. Have the antenna accessed.
Wrong or missing color with Component connection.	• Make sure the Component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or the screen will be blank.
Poor color or brightness.	• Adjust Picture options in the TV menu (Picture Mode, Colour, Brightness, Sharpness). • Adjust Energy Saving option in Setup menu. • Try picture reset to view the default picture setting. (Go to MENU → Picture → Picture Reset)
Dotted line on the edge of screen.	• If picture size is set to Just scan, change to 16:9. • Change cable/satellite box resolution.
Picture is black and white with AV (Composite) input only.	• Confirm Composite (yellow) cable is in yellow jack in source as well as TV.
Picture freezes or is distorted when changing channels or picture is delayed.	• If connected with cable /set top box, please try to reset cable box. (reconnect AC cord and wait until cable box reboots. It may take up to 20 minutes) • Set output resolution of 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 caused by the source or signal.	
No sound or sound is too low at maximum volume.	• Please check the volume of device (Cable/Sat Box, DVD, Blu-ray etc) connected to your TV. Then, adjust the TV volume accordingly.
Picture is good but no sound.	• Set the Speaker Select option to TV speaker in the sound menu. • Make sure audio cables from an external device are connected to correct audio input jacks on the TV. • Check connected device's audio output option. Ex) You may need to change your cable box' audio option to HDMI when you have HDMI connected to your TV. • If you are using a DVI to HDMI cable, a separate audio cable is required. • Remove plug from headphone jack (if available on your TV). • Reboot the connected device by reconnecting the device's power cable.
Noise from speaker.	• Check cable connections. Make sure a video cable is not connected to an audio input. • For Antenna/Cable connection, check signal strength. Low signal level may cause sound distortion.

Continued...

Problem	Possible Solution
No Picture, No Video	
TV won't turn on.	• Make sure the AC power cord is plugged in securely 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 remote is working properly. If the TV turns on, it may be caused by Remote Control. To fix the Remote problem, refer to "Remote control does not work" below.
TV turns off automatically.	• Check if the Sleep Timer is set to On in the Setup menu. • If connected the TV to your PC, check your PC power settings. • Make sure the AC power cord is plugged in securely to the wall outlet and the TV. • If there is no signal for about 10 ~ 15 minutes with Antenna/Cable connection, the TV will turn off.
No picture/Video.	• Check cable connections. (remove and reconnect all cables of TV and external devices) • Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video output to match the connections to the TV input. For example, external device's output : HDMI , TV's input : HDMI. • Make sure your connected device is powered on. • Make 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.
RF (Cable/Antenna) Connection	
Cannot receive all channels.	• Make sure coaxial cable is connected securely. • Please try Plug & Play to add available channels to the channel list. Go to MENU → Setup → Plug & Play and wait for all available channels are stored. • Verify Antenna is positioned correctly.
Picture is distorted : macroblock,small block,dots,pixelization.	• Compression of video contents may cause picture distortion especially on fast moving pictures such as sports and action movies. • Low signal level can cause picture distortion. This is not a TV issue. Have the antenna accessed
PC Connection	
"Not Supported Mode" message.	• Set your PC's output resolution so it matches the resolutions supported by the TV.
PC is always shown on source list even if not connected.	• This is normal; PC is always shown on the source list even though a PC is not connected.
Video is OK but there is no audio with HDMI connection.	• Check the audio output setting on your PC.

Continued...

Problem	Possible Solution
Others	
Picture is not shown in full screen. 	- Black bars on each side will be shown on HD channels when displaying upscaled SD (4:3) contents. - Black bars on Top & Bottom will be shown on movies that have aspect ratios different from your TV. - Adjust picture size option on your external device or TV to full screen.
Remote control does not work.	- Replace the remote control batteries with correct polarity (+ -). - Clean the transmission window located on the top of the remote. - Try pointing the remote directly at the TV from 5~6 feet away.
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 screen burn reduction technology. Pixel Shift technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot).
Can not control TV power or volume with Cable/Sat box remote control.	Program the Cable/Set top box remote control to operate the TV. Refer to Cable/Set top box user manual for SAMSUNG TV code.
"Not Supported Mode" message.	Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
Plastic smell from TV.	This smell is normal and will dissipate over time.
TV Signal Strength is unavailable in the Self Diagnostic Test menu.	This function is only available with digital channels with an Antenna (RF/Coax) connection.
TV is tilted to right or left side.	Remove the stand base from TV and reassemble.
Can not assemble stand base.	- Make sure TV is placed on flat surface. - If can not remove screws from TV, please use magnetized screw driver.
Channel menu is grey out (unavailable).	Channel menu is only available when TV source is selected.
Your settings are lost after 30 minutes or every time TV is turned off.	If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from Store Demo mode to Home Use mode in the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU → Setup → Plug & Play → ENTER
Intermittent loss of audio or video.	- Check cable connections and reconnect. - Can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If wall mounting, we recommend using cables with 90 degree connectors.
You may see small particles if you look closely at the edge of the bezel surrounding the TV screen.	This is part of the product's design and is not a defect.

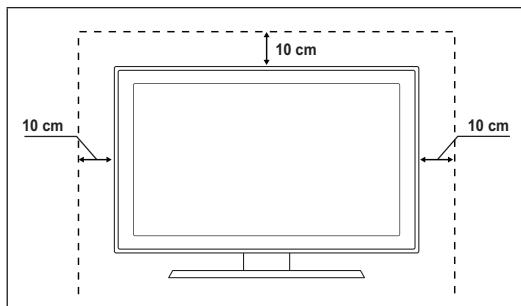
☞ Some of above pictures and functions are available at specific models only.

Securing the Installation Space

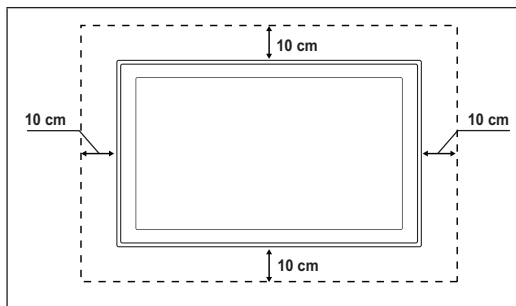
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation. Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product. Install the product so the required distances shown in the figure are kept.

- ☑ 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.
 - If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.
- ☑ The appearance may differ depending on the product.

■ When installing the product with a stand



■ When installing the product with a wall-mount



Specifications

The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model Name	PS42B430	PS50B430
Screen Size (Diagonal)	42 inch	50 inch
PC Resolution (Optimum)	1024 x 768 @ 60 Hz	1360x768 @ 60 Hz
Sound (Output)	10 W x 2	10 W x 2
Dimension (WxHxD)		
Body	1055 x 667 x 73 mm	1230 x 756 x 73 mm
With stand	1055 x 729 x 316 mm	1230 x 817 x 316 mm
Weight		
Body	24 kg	32 kg
With stand	28 kg	36 kg
Environmental Considerations		
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)	
Operating Humidity	10% to 80%, non-condensing	
Storage Temperature	-4 °F to 113 °F (-20 °C to 45 °C)	
Storage Humidity	5% to 95%, non-condensing	

- ☑ This device is a Class B digital apparatus.
- ☑ Design and specifications are subject to change without prior notice.
- ☑ For the power supply and Power Consumption, refer to the label attached to the product.
- ☑ When using an HDMI/DVI cable connection, you must use the HDMI IN 2(DVI) terminal.

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**Contact SAMSUNG WORLDWIDE**

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

Country	Customer Care Centre ☎	Web Site
AUSTRALIA	1300 362 603	www.samsung.com/au
CHINA	400-810-5858 010-6475 1880	www.samsung.com/cn
HONG KONG	3698-4698	www.samsung.com/hk www.samsung.com/hk_en/
INDIA	3030 8282 1800 110011 1800 3000 8282	www.samsung.com/in
INDONESIA	0800-112-8888	www.samsung.com/id
JAPAN	0120-327-527	www.samsung.com/jp
MALAYSIA	1800-88-9999	www.samsung.com/my
New zealand	0800 SAMSUNG (0800 726 786)	www.samsung.com/nz
PHILIPPINES	1-800-10-SAMSUNG(726-7864) 1-800-3-SAMSUNG(726-7864) 1-800-8-SAMSUNG(726-7864) 02-5805777	www.samsung.com/ph
SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com/sg
SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com/za
TAIWAN	0800-329-999	www.samsung.com/tw
THAILAND	1800-29-3232 02-689-3232	www.samsung.com/th
Turkey	444 77 11	www.samsung.com/tr
U.A.E	800-SAMSUNG (726-7864) 8000-4726	www.samsung.com/ae
VIETNAM	1 800 588 889	www.samsung.com/vn



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