

SERIES
4

Plasma TV

user manual

imagine the possibilities

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Model _____ Serial No. _____

SAMSUNG



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INDONESIA	0800-112-8888	www.samsung.com/id
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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.**

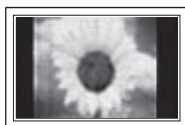
A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

◆ **Cell Defects**

The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-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.

Any functions related to Digital TV (DVB) will only work in countries or areas where DVB-T (MPEG2) digital terrestrial signals are broadcasted. Please confirm with your local dealer if you can receive DVB-T signals. Although this TV set follows the DVB-T specification, maintaining compatibility with the future coming DVB-T digital terrestrial broadcasts is not guaranteed. Several functions may not be available in some countries.

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Symbols



Press

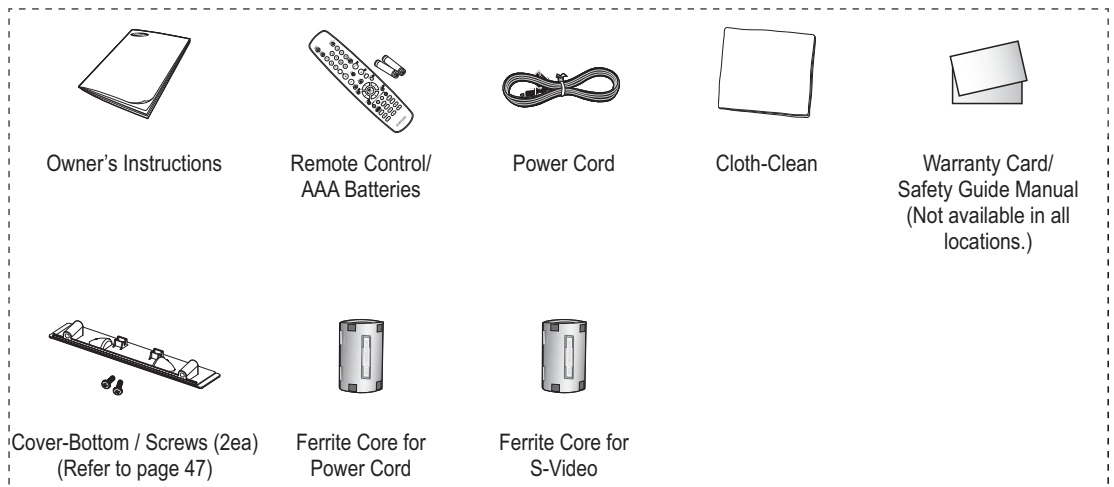


Important

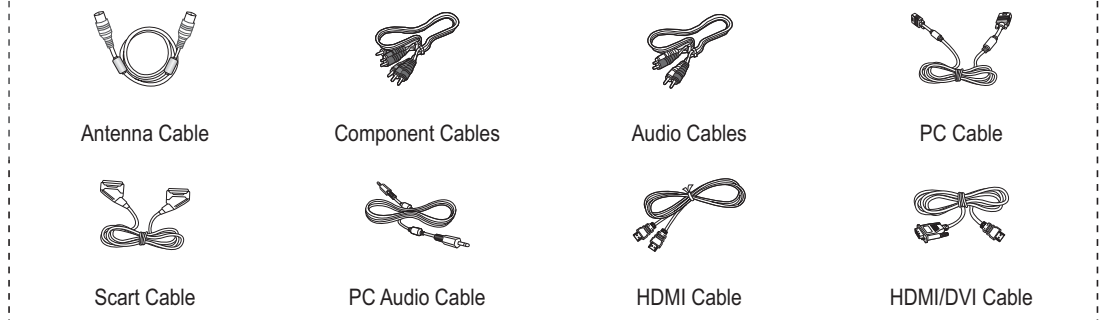


Note

Checking Parts

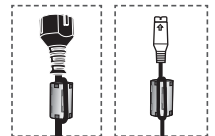


Sold Separately



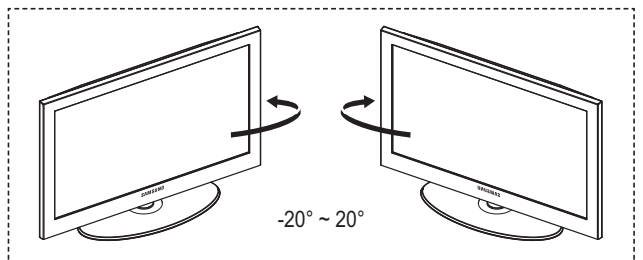
➤ **Ferrite Core (Power Cord, S-Video)**

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.



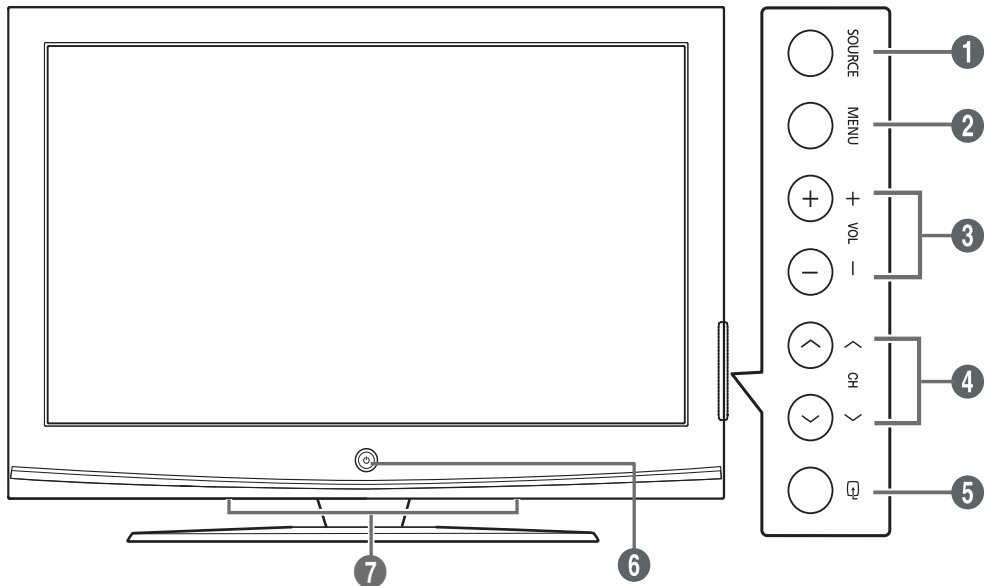
Using the Stand-Base

- ◆ 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.



Control Panel

Front Panel



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

1 SOURCE

Toggles between all the available input sources (**TV**, **AV1**, **AV2**, **S-Video**, **Component1**, **Component2**, **PC**, **HDMI1**, **HDMI2/DVI**).

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 ENTER

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

6 POWER

Press to turn the TV on and off.

Power Indicator

Blinks and turns off when the power is on and lights up in stand-by mode.

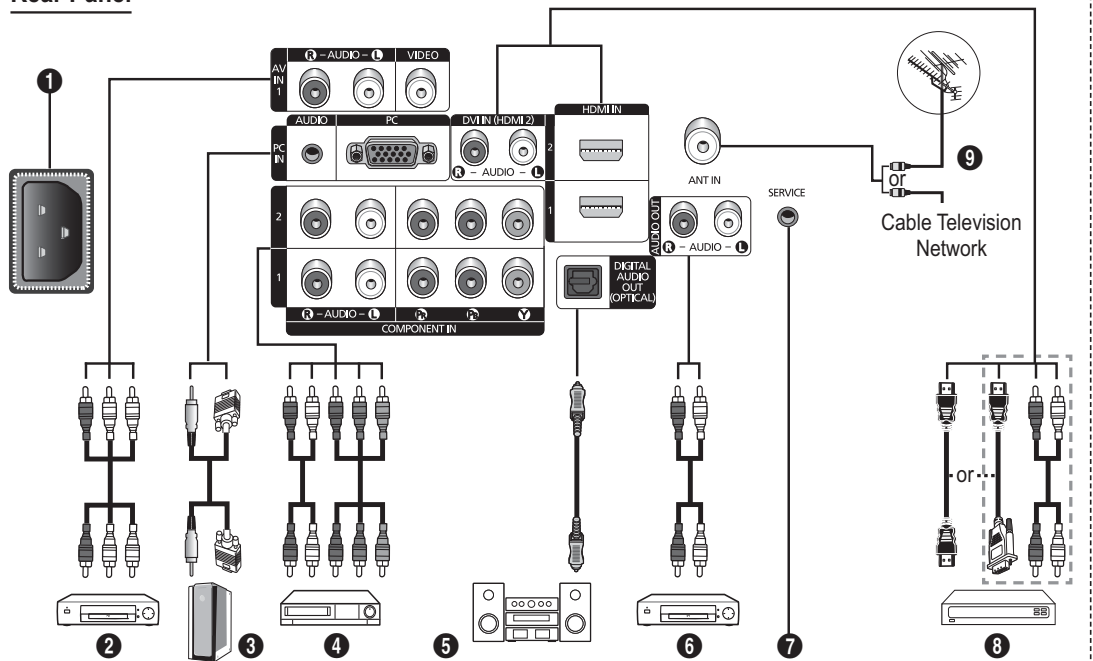
Remote Control Sensor

Aim the remote control towards this spot on the TV.

7 Speakers

Connection Panel

Rear 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 POWER IN

Connect the supplied power cord.

2 AV IN 1(VIDEO / AUDIO R/L)

Connect RCA cable to an appropriate external A/V device such as VCR, DVD or Camcorder.

3 PC IN(PC) / AUDIO

Connect to the video and audio output jack on your PC.

4 COMPONENT IN 1, COMPONENT IN 2

Audio (AUDIO L/R) and video (Y/PB/PR) inputs for Component.

5 DIGITAL AUDIO OUT (OPTICAL)

Connect to a Digital Audio Component.

6 Connecting external Audio Devices

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

7 SERVICE

- Connector for service.
- Connect the serial jack between the electro-motion wall mount bracket and your TV when you want to adjust the TV viewing angle using your remote control.

Continued...

8 HDMI IN 1, 2

- 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 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 (HDMI 2) AUDIO R/L

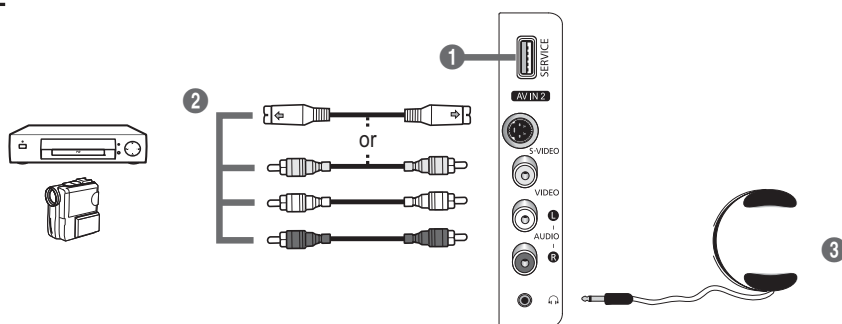
DVI audio outputs for external devices.

9 ANT IN

75Ω Coaxial connector for Aerial/Cable Network. Supported modes for HDMI/DVI and Component

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

Side Panel



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

1 SERVICE

For service only.

2 S-VIDEO or VIDEO / AUDIO L/R

Video (S-Video or Video) and audio inputs for external devices, such as a camcorder or VCR.

3 Headphones jack

You can connect a set of headphones if you wish to watch a television programme without disturbing the other people in the room.

➤ Prolonged use of headphones at a high volume may damage your hearing.

Viewing the Remote Control

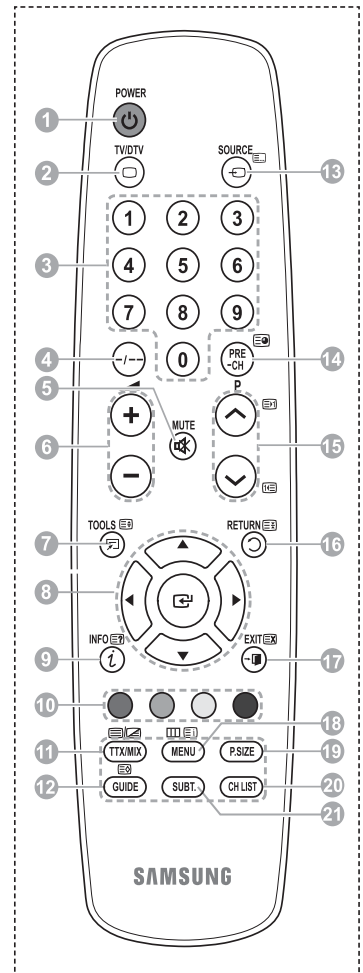
The performance of the remote control may be affected by bright light.

- 1 POWER button
(turns the TV on and off)
- 2 Selects the TV mode directly
- 3 Number buttons for direct channel access
- 4 One or more digit channel selection
- 5 Temporary sound switch-off
- 6 + Volume increase
- Volume decrease
- 7 Use to quickly select frequently used functions.
- 8 Control the cursor in the menu
- 9 Use to see information on the current broadcast
- 12 Electronic Program Guide (EPG) display
- 13 Available source selection
- 14 Previous channel
- 15 ⤴ Next channel
⤵ Previous channel
- 16 Returns to the previous menu
- 17 Exit the on-screen menu
- 18 Displays the main onscreen menu
- 19 Picture size selection
- 20 Channel control button
(Refer to page 17)
- 21 Digital subtitle display

Teletext Functions

(Refer to page 43)

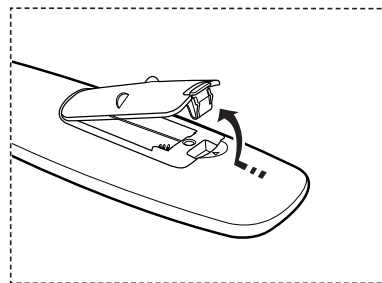
- 2 Exit from the teletext display
(depending on the model)
- 7 Teletext size
- 9 Teletext reveal
- 10 Fastext topic selection
- 11 Teletext display/mix both teletext information and the normal broadcast
- 12 Teletext store
- 13 Teletext mode selection (LIST/FLOF)
- 14 Teletext sub page
- 15 P ⤴: Teletext next page
P ⤵: Teletext previous page
- 16 Teletext hold
- 17 Teletext cancel
- 18 Teletext index



Continued...




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.
 - ◆ Do not mix battery types, i.e. alkaline and manganese.
 - 3 Close the cover as shown in the figure.
 - Remove the batteries and store them in a cool and dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)
- 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 cut, or is the power cord unplugged?
 5. Is there a special fluorescent light or a neon sign nearby?









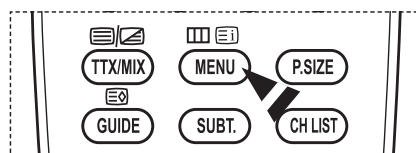
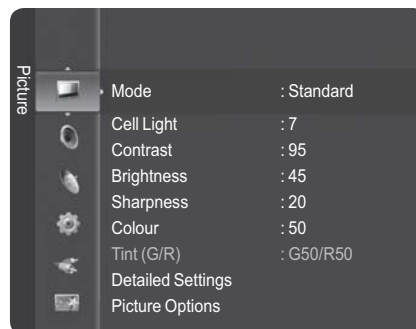
Switching Your Television On and Off

The mains lead is attached to the rear of the television.

- 1 Plug the mains lead into an appropriate socket.
 - The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.
- 2 Press the  (Power) button (On/Off) on the front of the television or press the **POWER** button on the remote control to switch the television on. The channel that you were watching last is re-selected automatically. If you have not yet stored any channels, no clear picture appears. Refer to “Storing Channels Automatically” on page 14 or “Storing Channels Manually” on page 15.
 - If the television is initially powered on, several basic customer settings proceed automatically. Refer to “Plug & Play Feature” on page 10.
- 3 To switch the television off, press the  (Power) button (On/Off) on the front of the television or press the **POWER** button on the remote control.
- 4 To switch the TV on, press the  (Power) button (On/Off) on the front of the TV or press the **POWER** button or number buttons on the remote control.

Viewing the Menu

- 1 Press the **MENU** button.
The main menu is displayed on the screen.
Its left side has six icons: **Picture**, **Sound**, **Channel**, **Setup**, **Input**, and **Application**.
- 2 Press the  or  button to select one of the icons.
Press the **ENTER** button to access the icon's sub-menu.
- 3 Press the  or  button to move to items in the menu.
Press the **ENTER** button to enter items in the menu.
- 4 Press the / button to change the selected items.
Press the **RETURN** button to return to the previous menu.
- 5 Press the **EXIT** button to exit from the menu.



Plug & Play Feature

When the television is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

- ☛ If you accidentally select the wrong country for your TV, the characters on the screen may be wrongly displayed.
 - ☛ Any functions related to Digital TV (DVB) will only work in countries or areas where DVB-T (MPEG2) digital terrestrial signals are broadcasted. Please confirm with your local dealer if you can receive DVB-T signals. Although this TV set follows the DVB-T specification, maintaining compatibility with the future coming DVB-T digital terrestrial broadcasts is not guaranteed. Several functions may not be available in some countries.
- The Screen Saver is activated if there is no remote control key input for longer than 1 minute while "Plug & Play" is running.

- 1 If the television is in standby mode, press the **POWER** button on the remote control. The message **The Menu Language, Store Demo, Channels and Time will be set.** is displayed.
- 2 Press the **ENTER** button, then the message **Select 'Home Use' when installing this TV in your home.** is displayed.
- 3 Press the **◀** or **▶** button to select **Store Demo** or **Home Use**, then press the **ENTER** button. The message to check the connected status of the antenna is displayed.
 - The default selection is **Home Use**.
 - 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. When the volume OSD is displayed, press and hold the **MENU** button for 5 seconds.

- 4 Press the **▲** or **▼** button to select the channel source to memorize. Press the **ENTER** button to select **Start**.

Digital & Analogue: "Digital" and "Analogue" channels.

Digital: "Digital" channels.

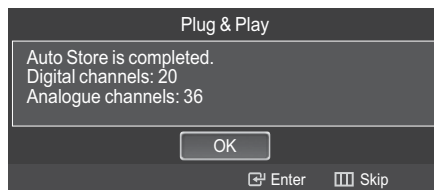
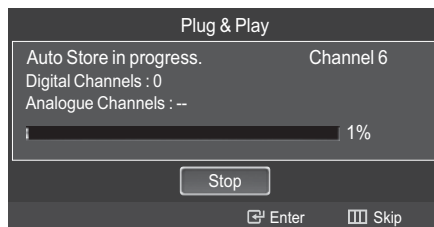
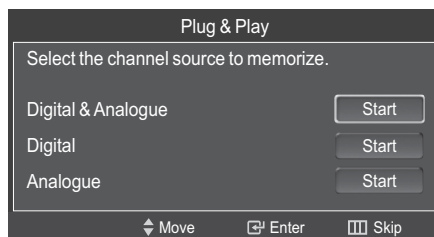
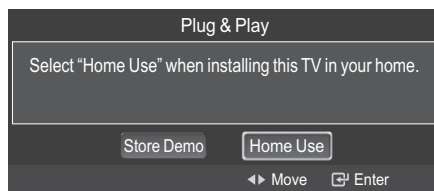
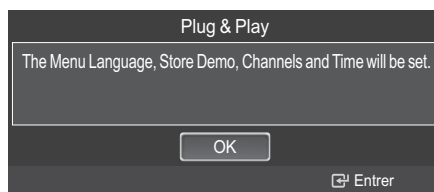
Analogue: "Analogue" channels.

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.

- To stop the search before it has finished, press the **ENTER** button with stop selected. Press the **◀** or **▶** button to select Yes, then press the **ENTER** button. The Auto Store menu then reappears. Press the **ENTER** button when channel memorization is complete.



Continued...

- The message **Set the Clock Mode** is displayed. Press the **ENTER** button. Press the **▲** or **▼** button to select **Manual** for setting the current time manually, then press the **ENTER** button. The message **Set current date and time** is displayed.

➤ If you select **Auto**, **Select the time zone where you are located** is displayed, then go to step 8.

- Press the **◀** or **▶** button to move to **Day**, **Month**, **Year**, **Hour** or **Minute**. Set the date and time you want by pressing the **▲** or **▼** button, then press the **ENTER** button.

➤ You can set the **Day**, **Month**, **Year**, **Hour** and **Minute** directly by pressing the number buttons on the remote control.

- The message **Enjoy your viewing** is displayed. When you have finished, press the **ENTER** button.

➤ Even if the **ENTER** button is not pressed, the message will automatically disappear after several seconds.

Setting the Clock Automatically...

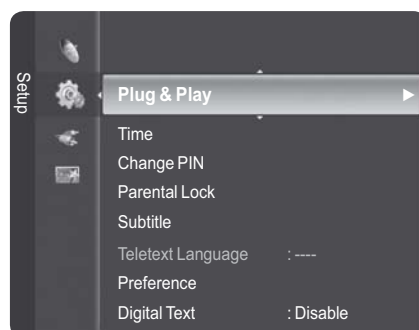
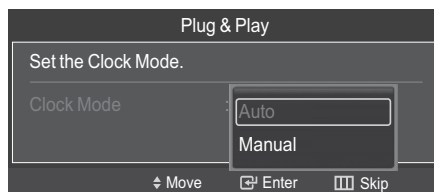
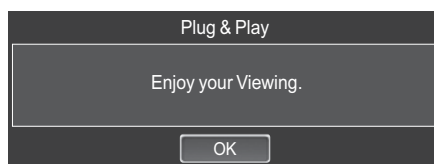
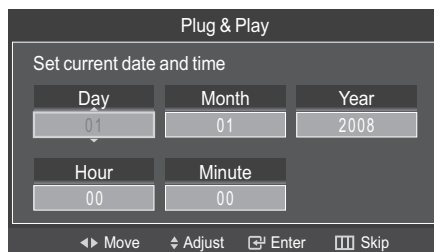
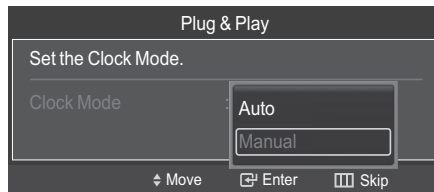
- Press the **▲** or **▼** button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of Australia). Press the **ENTER** button.

- The message **Enjoy your viewing** is displayed. When you have finished, press the **ENTER** button.

➤ Even if the **ENTER** button is not pressed, the message will automatically disappear after several seconds.

If you want to reset this feature ...

- Press the **MENU** button to display the menu.
- Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
- Press the **ENTER** button again to select **Plug & Play**.

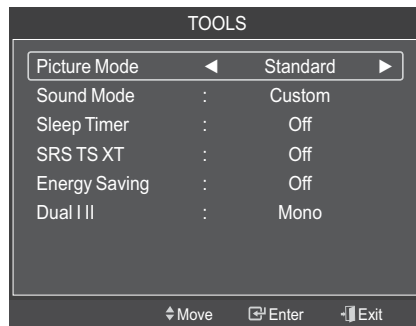


Using the TOOLS Button

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 26
- Sound Mode, see page 31
- Sleep Timer, see page 34
- SRS TS XT, see page 31
- Energy Saving, see page 37
- Dual I II, see page 33
- Auto Adjustment, see page 41



Viewing External Signal Sources

You can switch between viewing signals from connected equipment, such as a VCR, DVD, Set-Top Box, and the TV source.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Input**, then press the **ENTER** button.
- 3 Press the **ENTER** button again to select **Source List**.
- 4 Press the **▲** or **▼** button to select the signal source, then press the **ENTER** button.

➤ Using the Color buttons on the remote with the Source list.

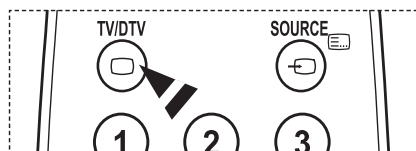
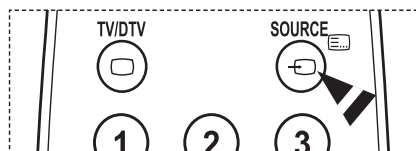
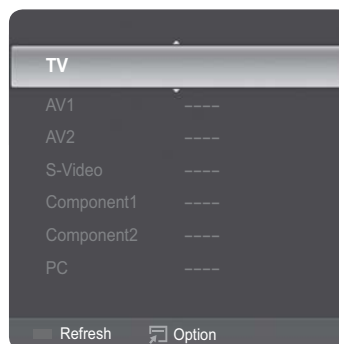
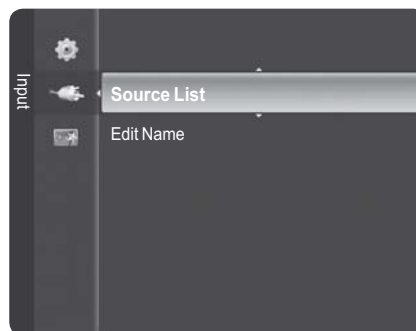
- **Red (Refresh)**: Refreshes the connecting external devices.
- **Option**: Displays the **Edit Name** and information menus.

Available signal sources: **TV, AV1, AV2, S-Video, Component1, Component2, PC, HDMI1, HDMI2/DVI**

➤ You can choose only those external devices that are connected to the TV.

➤ You can select these options simply by pressing the **SOURCE** button on the remote control.

➤ To watch television programme again, press the **TV/DTV** button and select the channel number required.



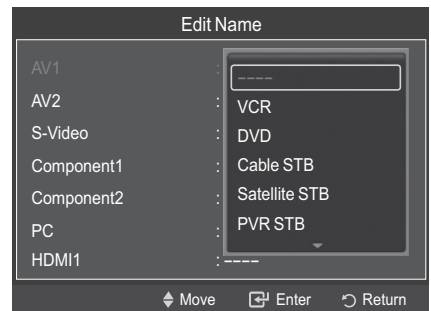
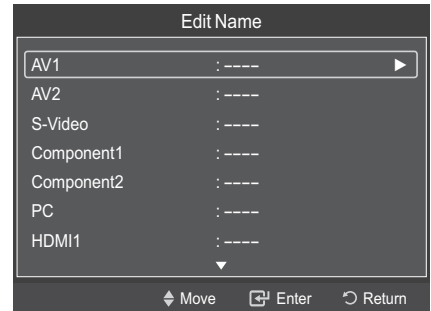
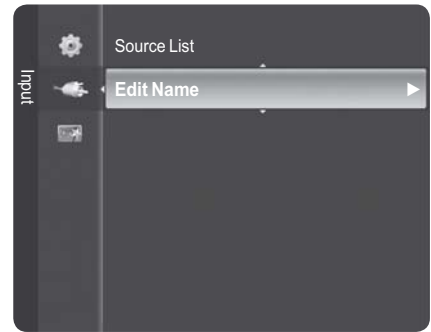
Editing Device Names

You can give a name to the external source.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Input**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Edit Name**, then press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select the external source to be edited, then press the **ENTER** button.
- 5 Select the required device by pressing **▲** or **▼**, then press the **ENTER** button.

Available device names: **VCR, DVD, Cable STB, Satellite STB, PVR STB, AV Receiver, Game, Camcorder, PC, TV, IPTV, Blu-Ray, HD DVD, Digital Media Adapter.**

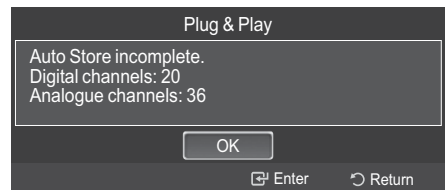
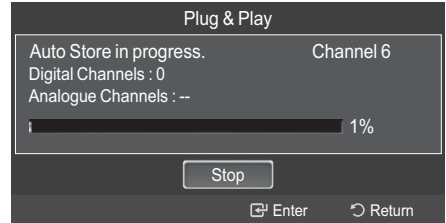
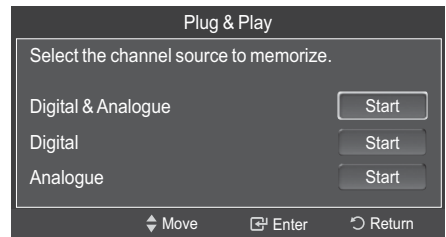
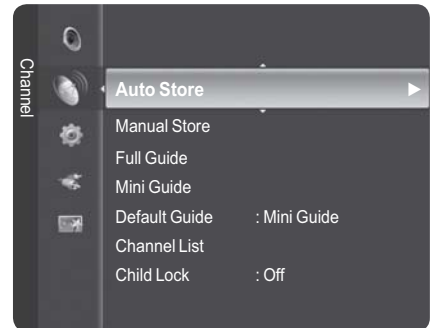
- 6 Press the **EXIT** button to exit.



Storing Channels Automatically

You can scan for the frequency ranges available to you (availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Auto Store**, then press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select the channel source to memorize. Press the **ENTER** button to select **Start**.
 - **Digital & Analogue:** “Digital” and “Analog” channels.
Digital: “Digital” channels.
Analogue: “Analog” channels.
 - Scans for all channels with active broadcast stations and stores them in the TV’s memory.
 - 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.
- 5 Press the **EXIT** button to exit.
 - When there is a locked channel by **Channel Lock** setting, PIN input screen appears. (refer to page 24)



Storing Channels Manually

You can store television channels, including those received via cable networks.

When storing channels manually, you can choose:

- ◆ Whether or not to store each of the channels found.
 - ◆ The programme number of each stored channel which you wish to identify.
- 1 Press the **MENU** button to display the menu.
 - 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
 - 3 Press the **▲** or **▼** button to select **Manual Store**, then press the **ENTER** button.
 - 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
 - 5 When you are satisfied with your setting, press the **ENTER** button.
 - 6 Press the **EXIT** button to exit.

Digital Channel

◆ Channel

Press the **▲**, **▼** or numeric buttons (0~9) to select a channel. The available channels are 5~69. The corresponding frequency for the selected channel is automatically set

◆ Frequency

You can specify the frequency (KHz) using the numeric buttons (0~9). If you do not know the exact frequency, follow the above step to select the frequency automatically using channel.

◆ Bandwidth

Press the **▲** or **▼** button to select a bandwidth. The available bandwidths are 7 and 8 MHz.

Analogue Channel

- ◆ **Programme** (Programme number to be assigned to a channel)
Press the **▲** or **▼** button until you find the correct number.

➤ You can also select the channel number directly by pressing the numeric buttons (0~9).

- ◆ **Colour System: Auto/PAL/SECAM/NTSC4.43**

Press the **▲** or **▼** button to select the required colour standard.

- ◆ **Sound System: BG/DK/IL**

Press the **▲** or **▼** button to select the required sound standard.

- ◆ **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 **▼** button to select the required number.

➤ You can also select the channel number directly by pressing the numeric buttons (0~9).

➤ If there is abnormal sound or no sound, re-select the sound standard required.

- ◆ **Search** (When you do not know the channel numbers)

Press the **▲** or **▼** button to start the search.

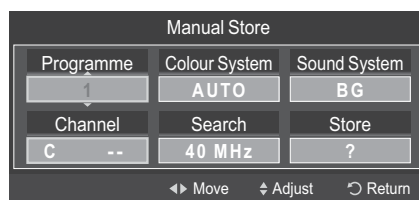
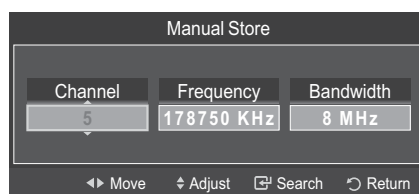
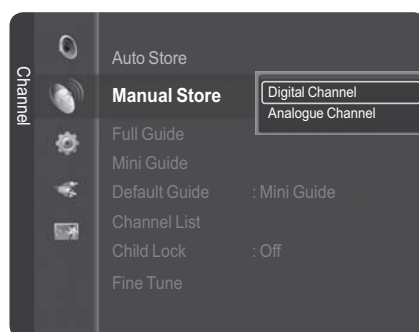
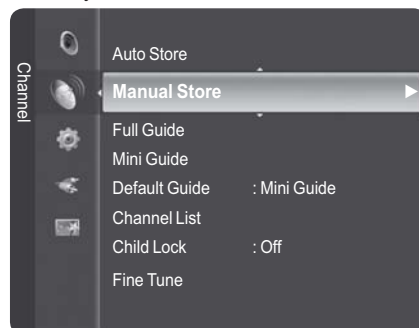
The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.

- ◆ **Store** (When you store the channel and associated programme number)

Set to **OK** by pressing the **ENTER** button.

➤ Channel mode

- **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this 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.



Viewing the EPG (Electronic Programme Guide) Information

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.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Full Guide**, **Mini Guide** or **Default Guide** then press the **ENTER** button.


◆ Full Guide

For the six channels indicated in the left-hand column, displays the Current programme and the Next programme information.

- One hours of programme information is displayed which may be scrolled forwards or backwards in time.

◆ Mini Guide

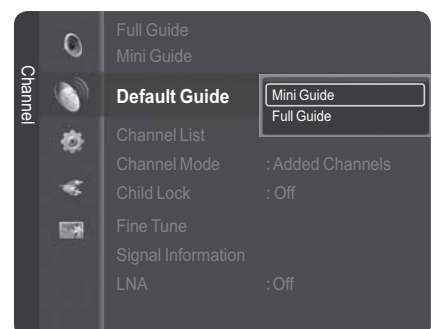
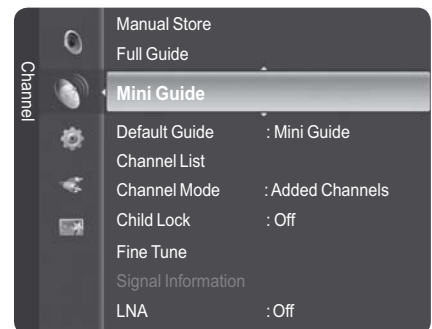
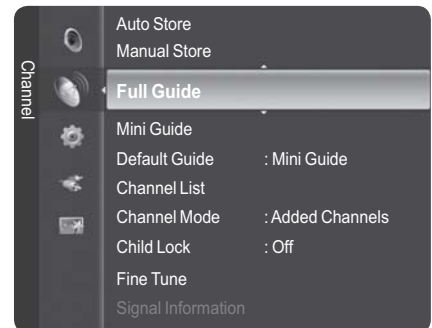
The information of each program is displayed by each line on the current channel Mini Guide screen from the current program onwards according to the program starting time order.

	<p>Select a programme by pressing the ▲/▼/◀/▶ button.</p> <p>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.</p>
RED	Toggle between the Mini Guide or Full Guide .
GREEN	Full Guide: Scroll backwards quickly (24 hours). Mini Guide: Display next page quickly.
YELLOW	Full Guide: Scroll forwards quickly (24 hours). Mini Guide: Display previous 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.

◆ Default Guide: Mini Guide/Full Guide

Press the **▲** or **▼** button to select **Mini Guide** or **Full Guide**. Press the **ENTER** button. The selected guide menu is displayed.

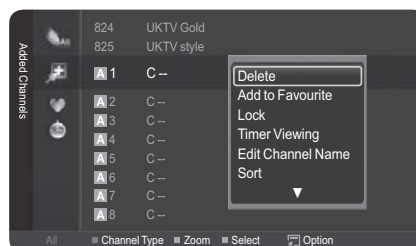
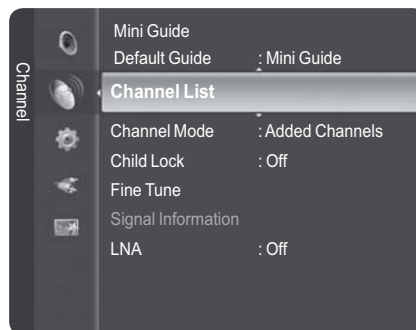
- You can also display the guide menu simply by pressing the **GUIDE** button.



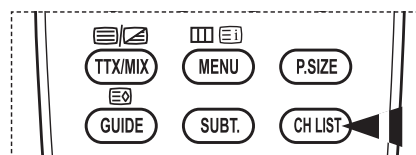
Erasing and Adding Channels

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

- 1 Press the **MENU** button.
Press the ▲ or ▼ button to select **Channel**, then press the **ENTER** button.
Press the ▲ or ▼ button to select **Channel List**, then press the **ENTER** button.
- 2 Press the ◀ button to select **Added Channels**.
- 3 Press the ▲ or ▼ button to select **All Channels**.
Shows all currently available channels. Press the **ENTER** button.
- 4 Press the ▲ or ▼ button to select a channel to delete, then press the **TOOLS** button.
- 5 Press the **ENTER** button to select **Delete**.
All deleted channels will be shown on **Added Channels** menu.
- 6 Press the **EXIT** button to exit.
 - You can also add a channel to the **Added Channels** menu in the same manner.
 - A channel must be deleted before it can be added back to the **Added Channels** list.
 - To Add (Restore) a channel back to the Added Channel List, follow steps 1-3 above, press the ▲ or ▼ button to select a channel to add, then press the **TOOLS** button. Press the **ENTER** button to select Add.



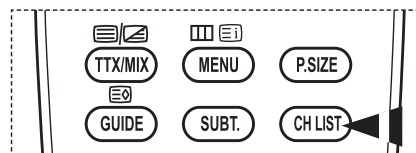
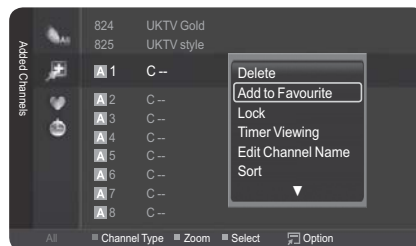
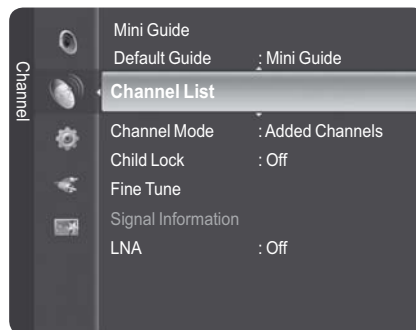
- Press the **CH LIST** button on the remote control to bring up the channel lists.



Setting Your Favourite Channels

You can set channels you watch frequently as favourites.

- 1 Press the **MENU** button.
Press the ▲ or ▼ button to select **Channel**, then press the **ENTER** button.
Press the ▲ or ▼ button to select **Channel List**, then press the **ENTER** button.
- 2 Press the ◀ button to select **Added Channels**.
- 3 Press the ▲ or ▼ button to select **All Channels**, then press the **ENTER** button.
Shows all currently available channels.
- 4 Press the ▲ or ▼ button to select a channel as a favourite channel, then press the **TOOLS** button.
- 5 Press the ▲ or ▼ button to select **Add to Favourite**, then press the **ENTER** button.
The “♥” symbol will be displayed and the channel will be set as a favourite.
- 6 To cancel your favourite channel selection, press the **TOOLS** button when a favourite channel is selected. Press the ▲ or ▼ button to select **Delete from Favourite**, then press the **ENTER** button. The channel is deleted from Favourites and the “♥” mark disappears.
Press the **EXIT** button to exit.
 - You can also Add or Delete a channel from Favourites in the **Added Channels** menu in the same manner.
 - All favourite channels will be shown on **Favourite** menu.
 - Press the **CH LIST** button on the remote control to bring up the channel lists.




Reserving a Program (Time Viewing)

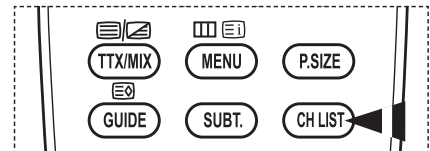
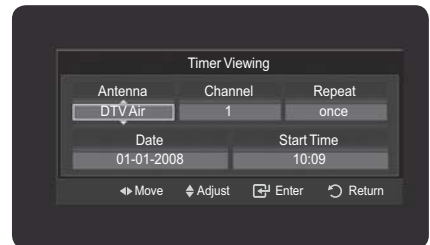
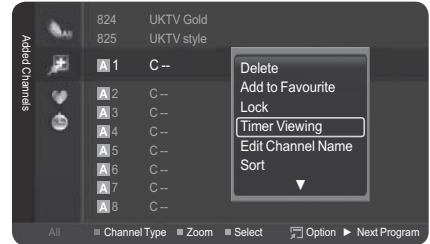
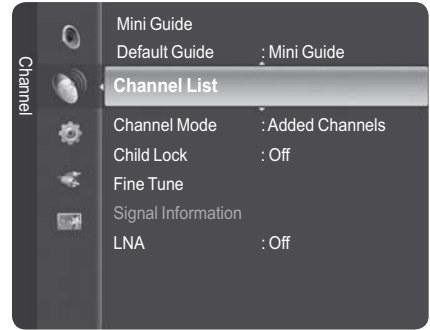
If you reserve a program you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel.

To reserve a program, set the current time first. See pages 32. Reserved channels can only be set if they are in the Channel List (See page 20).

- 1 Press the **MENU** button.
Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER** button.
- 2 Press the **▲** or **▼** button to select a channel, then press the **TOOLS** button.
- 3 Press the **▲** or **▼** button to select **Timer Viewing**, then press the **ENTER** button.
The Reserve a Program (Timer Viewing) screen appears.
- 4 Press the **▲/▼/◀/▶** buttons to reserve a program and then press the **ENTER** button.
Reserving a program has been completed.
Press the **EXIT** button to exit.

- You can also reserve a program in the **All Channels** or **Favourite** menus using the same procedures.
- For information on how to confirm a viewing reservation, refer to page 20. Only memorized channels can be reserved channels.
- You can set the channel, month, day, year, hour and minute directly by pressing the number buttons on the remote control.


 Press the **CH LIST** button on the remote control to bring up the channel lists.



Digital Program Guide and Viewing Reservation

When a digital channel is selected, and you press the **▶** button, the Program Guide for the channel appears. You can reserve a program according to the procedures described above.

 : A program currently being broadcast.

 : A reserved program.

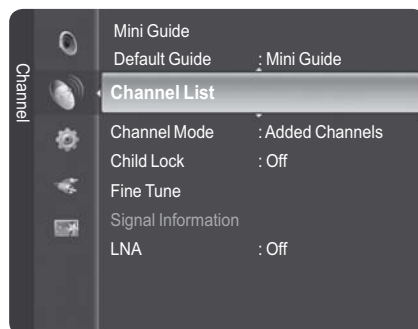


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Confirming a Viewing Reservation

You can view, modify or delete a reservation.

- 1 Press the **MENU** button.
Press the ▲ or ▼ button to select **Channel**, then press the **ENTER** button.
Press the ▲ or ▼ button to select **Channel List**, then press the **ENTER** button.
- 2 Press the ◀ button to select **Added Channels**.
- 3 Press the ▲ or ▼ button to select **Programmed**, then press the **ENTER** button.
You can view the program reservations.



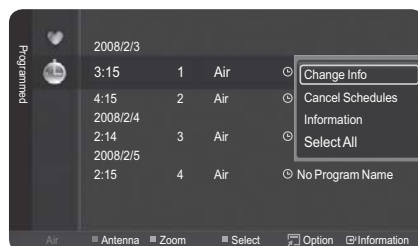
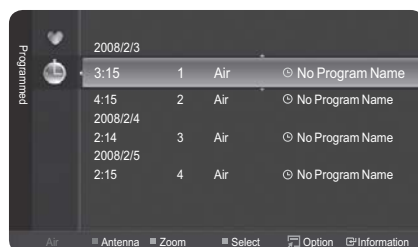
Modifying a viewing reservation

- 4 To select a reservation item to be modified, press the ▲ or ▼ button and then press the **TOOLS** button.
- 5 Press the **ENTER** button to select **Change Info**.
- 6 Press the ▲/▼/◀/▶ buttons to change a reservation setting and then press the **ENTER** button.
The reservation modification is applied.




Canceling a reservation

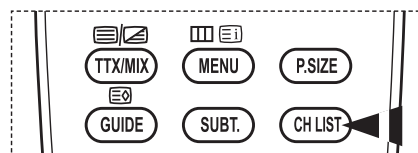
- 4 To select a reservation item to be canceled, press the ▲ or ▼ button, and then press the **TOOLS** button.
- 5 Press the ▲ or ▼ button to select **Cancel Schedules**, then press the **ENTER** button.
- 6 Press the ◀ or ▶ button to select **OK**, then press the **ENTER** button.
The viewing reservation has been canceled.
Press the **EXIT** button to exit.



Programmed Menu

- **Change Info:** Select to change a viewing reservation.
- **Cancel Schedules:** Select to cancel a viewing reservation.
- **Information:** Select to view a viewing reservation.
- **Select:** You can select(or Deselect) all channels in the channel list.

 Press the **CH LIST** button on the remote control to bring up the channel lists.



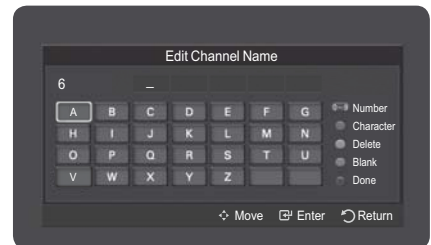
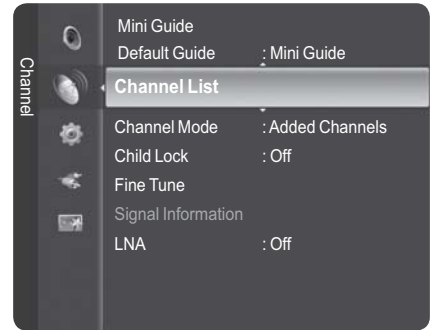
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Assigning Names to Channels

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

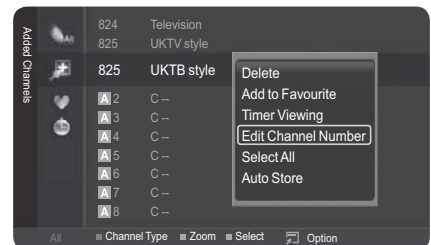
Editing the Channel Name-Analogue

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER** button.
- 4 Press the **TOOLS** button.
- 5 Press the **▲** or **▼** button to select **Edit Channel Name**, then press the **ENTER** button.
- 6 Press the **▲** or **▼** button to select the channel to be assigned to a new name, then press the **ENTER** button.
- 7 Press the **▲** or **▼** button to select a letter, a number, or a symbol (Results in this sequence: A~Z, 0~9, +, -, *, /, blank).
Move on to the previous or next letter by pressing the **◀** or **▶** button, then press the **ENTER** button.
- 8 Repeat steps 6 to 7 for each channel to be assigned to a new name.
- 9 Press the **EXIT** button to exit.



Editing the Channel Number-Digital

- 1 Press the **MENU** button.
Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER** button.
- 2 Select the channel number that you wish to edit by pressing the **▲** or **▼** button repeatedly, then press the **TOOLS** button.
- 3 Press the **▲** or **▼** button to select **Edit Channel Number**, then press the **ENTER** button.
- 4 Then you can edit the Channel Number pressing the **▲** or **▼** button repeatedly. You can also edit the channel number by pressing the number buttons on the remote control.

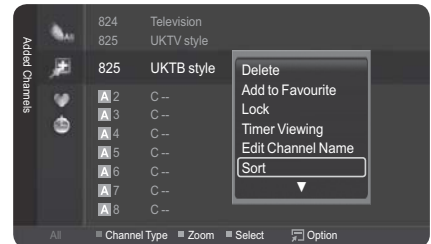
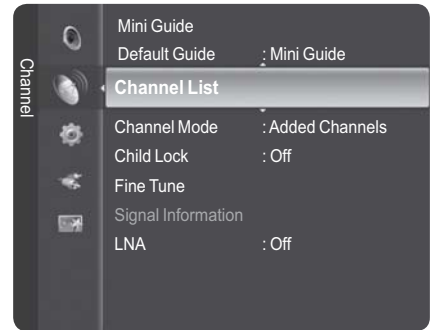


Sorting the Stored Channels

This operation allows you to change the programme numbers of the stored channels.

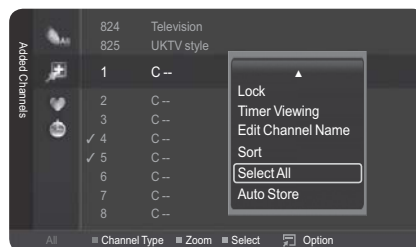
This operation may be necessary after using the auto store.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER** button.
- 4 Press the **TOOLS** button.
- 5 Press the **▲** or **▼** button to select **Sort**, then press the **ENTER** button.
- 6 Select the channel that you wish to move by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 7 Select the number of the programme to which the channel is to be moved by pressing the **▲** or **▼** button. Press the **ENTER** button. The channel is moved to its new position and all other channels are shifted accordingly.
- 8 Repeat steps **6** to **7** until you have moved all the channels to the required programme numbers.
- 9 Press the **EXIT** button to exit.



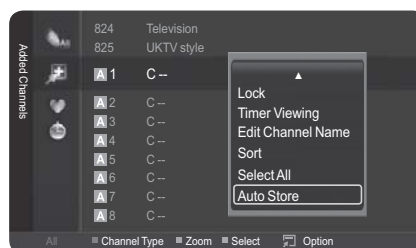
Selecting and Deselecting All Channels

- 1 Press the **MENU** button.
Press the ▲ or ▼ button to select **Channel**, then press the **ENTER** button.
Press the ▲ or ▼ button to select **Channel List**, then press the **ENTER** button.
- 2 Press the ▲ or ▼ button to select the Channel to be assigned a new name, then press the **TOOLS** button.
- 3 Press the ▲ or ▼ button to select **Select All** or **Deselect All**, then press the **ENTER** button.
 - You can select(or Deselect) all channels in the channel list.
 - The ✓ mark appears to the left of the selected channels.



Storing Channels in Memory (Auto Store)

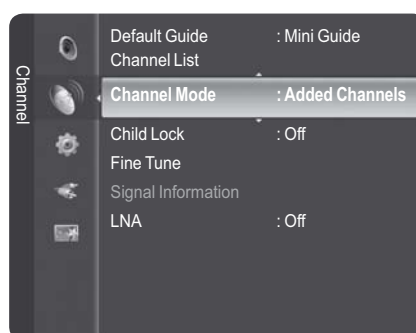
- 1 Press the **MENU** button.
Press the ▲ or ▼ button to select **Channel**, then press the **ENTER** button.
Press the ▲ or ▼ button to select **Channel List**, then press the **ENTER** button.
- 2 Press the ▲ or ▼ button to select the channel to be assigned a new name, then press the **TOOLS** button.
- 3 Press the ▲ or ▼ button to select **Auto Store**, then press the **ENTER** button.
For further details on setting up options, refer to page 14.



Setting the Channel Mode

You can display either the added channels list or the favourite channels list when the CH LIST button on the remote control is pressed.

- 1 Press the **MENU** button.
Press the ▲ or ▼ button to select **Channel**, then press the **ENTER** button.
Press the ▲ or ▼ button to select **Channel Mode**, then press the **ENTER** button.
- 2 Press the ▲ or ▼ button to select **Added Channels** or **Favourite Channels**, then press the **ENTER** button.
- 3 Press the **EXIT** button to exit.



Locking channels


This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using the buttons on the side. Only the remote control can release the Child Lock setting, so keep the remote control away from children.

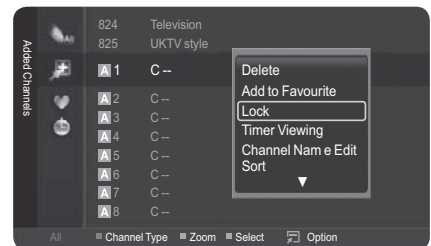
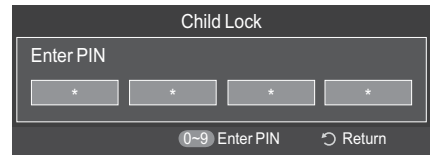
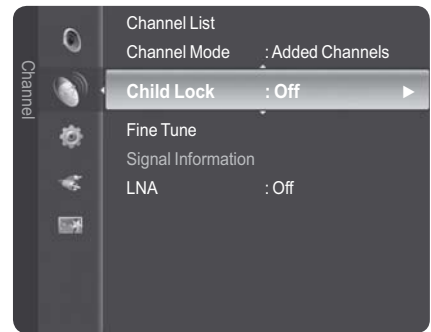
◆ Locking channels

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Child Lock**, then press the **ENTER** button.
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 page 35.
- 4 Press the **▲** or **▼** button to select **On**, then press the **ENTER** button.
- 5 Press the **▲** or **▼** button to select **Channel List**, then press the **ENTER** button.
- 6 Press the **▲** or **▼** button to select a channel to be locked, then press the **TOOLS** button.

➤ The  symbol will be displayed and the channel will be locked.

◆ Unlocking channels

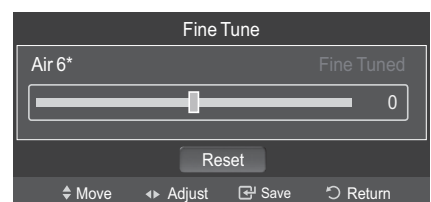
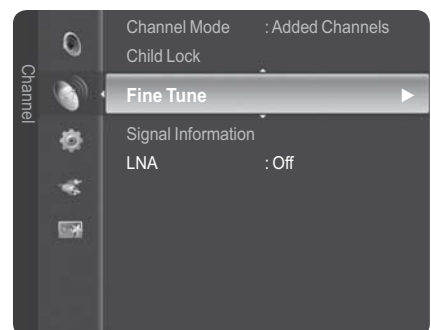
- 7 Press the **▲** or **▼** button to select **Unlock**, then press the **ENTER** button.
Enter your 4 digit **PIN** number.
 - The channel is unlocked and the  mark also disappears.
 - The default **PIN** number of a new TV set is "0-0-0-0".



Fine Tuning Analog Channels

Use fine tuning to manually adjust a particular channel for optimal reception.

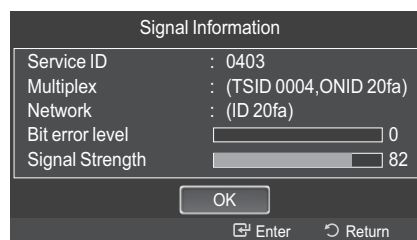
- 1 Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 2 Press the **▲** or **▼** button to select **Fine Tune**, then press the **ENTER** button.
- 3 Press the **◀** or **▶** button to adjust the fine tuning.
To store the fine tuning setting in the TV's memory, press the **ENTER** button.
 - If you do not store the fine-tuned channel in memory, adjustments are not saved.
- 4 To reset the fine tuning setting, press the **▼** button to select **Reset**, then press the **ENTER** button.
Press the **EXIT** button to exit.
 - Only analog TV channels can be fine tuned.
 - "*" will appear next to the number of fine-tuned channels.



Viewing Signal Information

You can get information about the signal status.

- 1 Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
 - 2 Press the **▲** or **▼** button to select **Signal Information**, then press the **ENTER** button.
 - 3 Press the **EXIT** button to exit.
- If the signal status is poor, the **No signal.** message is displayed.

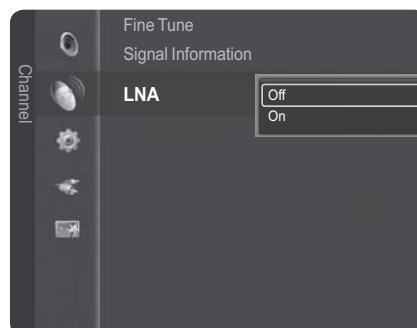


LNA (Low Noise Amplifier)

This function is very useful in the situation that the TV is used in weak signal.

LNA amplifies the TV signal in the weak signal area, a low-noise preamplifier boosts the incoming signal.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Channel**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **LNA**, then press the **ENTER** button.
- 4 Select **Off** or **On** by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 5 Press the **EXIT** button to exit.

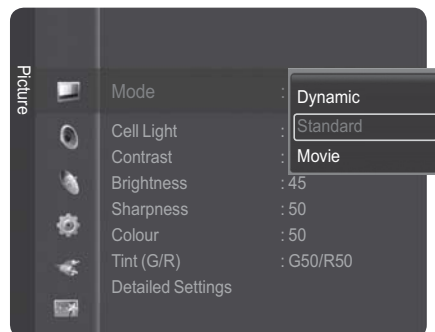
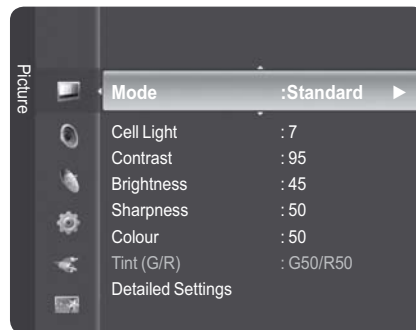


Changing the Picture Standard

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

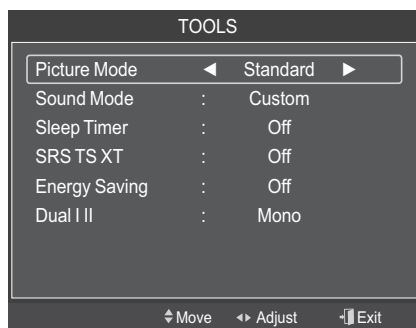
- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the **ENTER** button again to select **Mode**.
- 4 Select the required mode by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available modes: **Dynamic**, **Standard**, **Movie**
➤ The settings values may vary depending on the input source.
- 5 Press the **EXIT** button to exit.

- ◆ Choose **Dynamic** for viewing the TV during the day or when there is bright light in the room.
- ◆ Choose **Standard** for general TV watching mode.
- ◆ Choose **Movie** when viewing the movie.



Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Picture Mode**.
- 3 Press the **◀** or **▶** button to select the required option.



Customizing the Picture Settings

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

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the **ENTER** button again to select **Mode**.
- 4 Select the required mode by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available modes: **Dynamic**, **Standard**, **Movie**
- 5 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 6 When you are satisfied with your setting, press the **ENTER** button.
- 7 Press the **EXIT** button to exit.

- ◆ **Cell Light - Contrast – Brightness – Sharpness – Colour – Tint(G/R)**
➤ In TV, AV, S-Video modes of the PAL system, you cannot use the Tint Function.
➤ In PC mode, you can only make changes to **Cell Light**, **Contrast**, and **Brightness**.
Press the **◀** or **▶** button until you reach the optimal setting.



Configuring Detailed Settings on the Picture

You can set detailed picture settings.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the **▲** or **▼** button to select **Detailed Settings**, then press the **ENTER** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.

Available options: **Black Adjust**, **Dynamic Contrast**, **Gamma**, **Colour Space**, **White Balance**, **Flesh Tone**, **Edge Enhancement**

- 5 When you are satisfied with your setting, press the **ENTER** button.
- 6 Press the **EXIT** button to exit.

➤ **Detailed Settings** is available in **Standard** or **Movie** mode.

➤ In **PC** mode, you can only make changes to **Dynamic Contrast**, **Gamma** and **White Balance** from among the **Detailed Settings** items.

◆ **Black Adjust: Off/Low/Medium/High**

You can directly 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: -3 ~ +3**

You can adjust the middle brightness of pictures. Press the **◀** or **▶** button until you reach the optimal setting.

◆ **Colour Space : Auto/Native**

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:** Auto Colour Space automatically adjusts to the most natural colour tone based on program sources.
- **Native:** Native Colour Space offers deep and rich colour tone.
- **Custom:** Adjusts the colour range to suit your preference.

Customizing the Colour Space

Colour: Red/Green/Blue/Yellow/Cyan/Magenta

Adjusts the Colour range to suit your preference. Colour is available when **Colour Space** is set to **Custom**. Press the **▲** or **▼** button to select **Red**, **Green**, **Blue**, **Yellow**, **Cyan** or **Magenta**. Press the **ENTER** button.

- **Red/Green/Blue:** In Colour, you can adjust the RGB values for the selected colour.

Press the **▲** or **▼** button to select **Red**, **Green** or **Blue** to change it. Press the **ENTER** button. Press the **◀** or **▶** button to decrease or increase the value of a particular item. Press the **ENTER** button.

- **Reset:** Resets the colour space to the default values.

◆ **White Balance: R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain/Reset**

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. Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button. Press the **◀** or **▶** button until you reach the optimal setting.

Reset: The previously adjusted white balance will be reset to the factory defaults.

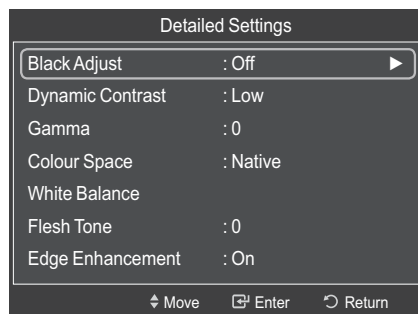
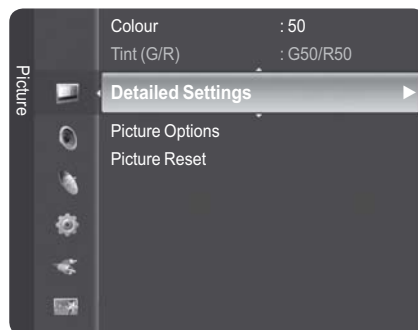
◆ **Flesh Tone:-15~+15**

You can emphasize the pink tone in the picture. Press the **◀** or **▶** button until you reach the optimal setting.

➤ Changing the adjustment value will refresh the adjusted screen.

◆ **Edge Enhancement: Off/On**

You can emphasize object boundaries.



Picture Options

You can set detailed picture settings.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the **▲** or **▼** button to select **Picture Options**, then press the **ENTER** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 5 When you are satisfied with your setting, press the **ENTER** button.
- 6 Press the **EXIT** button to exit.

➤ In **PC** mode, you can only make changes to the **Colour Tone**, **Size** and **Screen Burn Protection** from among the items in **Picture Options**.


◆ **Colour Tone: Cool2/Cool1/Normal/Warm1/Warm2**

➤ When the picture mode is set to **Dynamic** or **Standard**, **Warm1** and **Warm2** cannot be selected.

◆ **Size: 16:9/Wide Zoom/Zoom/4:3/Just Scan**

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

- **16:9**: Sets the picture to 16:9 wide mode.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.

Move the screen up/down using the **▲** or **▼** button after selecting the  by pressing the **▶** or **ENTER** button.

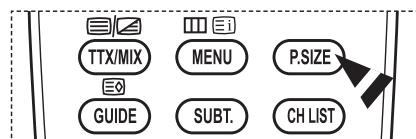
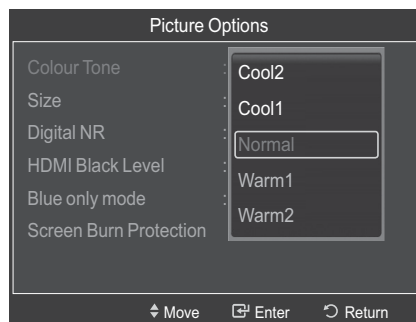
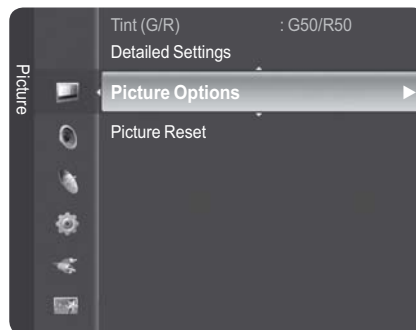
- **Zoom**: Magnify the size of the picture vertically on screen.
- **4:3**: Sets the picture to 4:3 normal mode.

- **Just Scan**: Use this function to see the full image without any cutoff when HDMI(720p/1080i), Component(1080i) signals are input.

After selecting Just Scan in HDMI (1080i) or Component (1080i) mode: Press the **◀** or **▶** button to select **Position**, then press the **ENTER** button. Press 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.

- With the HDMI Just Scan picture size, depending on the AV devices, the screen may be cut off or a specific colour appears on the screen.
- For an HDMI (1080p) connection of 24, 25, 30, 50, and 60 Hz, and for a Component (1080p) connection of 50 and 60Hz, only the input source is supported.
- You can change the picture size simply by pressing the **P.SIZE** button on the remote control.
- Depending on the input source, the picture size options may vary.
- The items available may differ depending on the selected mode.
- In PC Mode, only "16:9" and "4:3" mode can be adjusted.



Continued...

Positioning and Sizing the screen using Zoom

- Resizing the screen using the **Zoom** enables the positioning and sizing of the screen to up/down direction using the ▲ or ▼ button as well as the screen size.
- Move the screen up/down using the ▲ or ▼ button after selecting the  by pressing the ◀ or ▶ button.
- Resize the screen vertically using the ▲ or ▼ button after selecting the  by pressing the ◀ or ▶ button.

◆ **Digital NR: Off/Low/Medium/High/Auto**

If the signal received by the television is weak, you can activate this feature to 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**

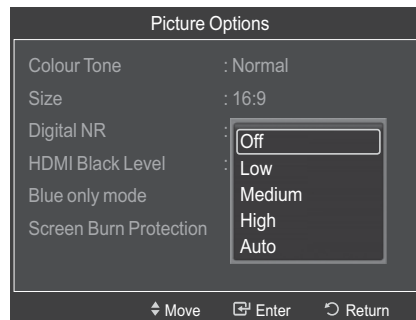
Using this function, you can adjust the image quality when the screen burn (appearance of black level, low contrast, low colour, etc.) is encountered by the HDMI input for RGB limited range (16 to 235).

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

◆ **Blue Only Mode: Off/On**

This function is for AV device measurement experts. This function displays the blue signal only by removing the red and green signals from the video signal so as to provide a Blue Filter effect that is used to adjust the Colour and Tint of video equipment such as DVD players, Home Theaters, etc. Using this function, you can adjust the Colour and Tint to preferred values appropriate to the signal level of each video device using the Red/Green/Blue/ Cyan/Magenta/ Yellow Colour Bar Patterns, without using an additional Blue Filter.

- **Blue Only Mode** is available when the picture mode is set to **Movie** or **Standard**.



◆ Screen Burn Protection

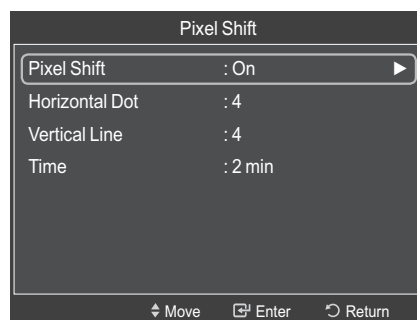
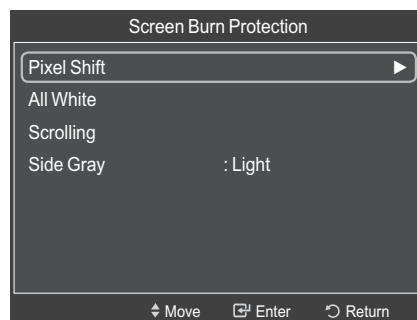
To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot). The Time setting allows you to program the time between movement of the picture in minutes.

- **Pixel Shift:** Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to minimize after image on the screen.
 - 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 Dot, Vertical Line, Time**

➤ Optimum condition for pixel shift;

	PC	TV/AV/Component/HDMI
Horizontal Dot	4	4
Vertical Line	4	4
Time (minute)	4	4 min

- This function is not available in the Just Scan mode.
- The Pixel Shift value may differ depending on the monitor size (inches) and mode.
- **All White:** This function helps remove after images on the screen by changing the colour of pixels to white. 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.
- **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.
- To remove after images on the screen, use either **White** or **Scrolling** function. Although both of the two functions remove after images on the screen, **Scrolling** is more effective.
- The after image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after images on the screen. If after image is not improved after the execution of the function, repeat the function again.
- Press any button on the remote control to cancel this feature.

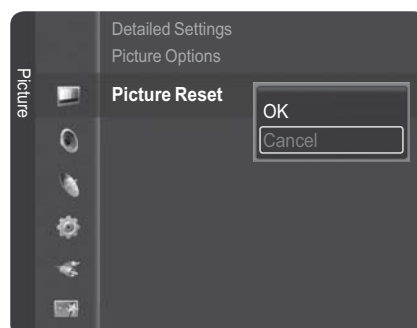


Resetting the Picture Settings to the Factory Defaults

You can set detailed picture settings.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button to select **Picture**.
- 3 Press the ▲ or ▼ button to select **Picture Reset**, then press the **ENTER** button.
- 4 Press the ▲ or ▼ button to select **OK** or **Cancel** then press the **ENTER** button.

➤ Each mode can be reset.



Sound Features

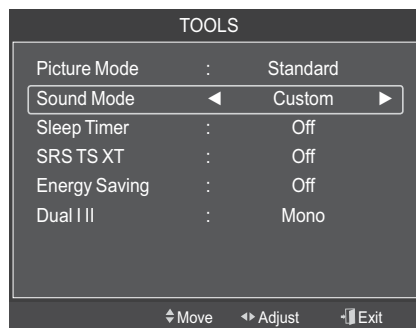
- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Sound**, then press the **ENTER** button.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available options: **Mode**, **Equalizer**, **SRS TruSurround XT**, **Audio Language**, **Audio Format**, **Auto Volume**, **TV Speaker**, **Sound Reset**
- 4 When you are satisfied with your setting, press the **ENTER** button.
- 5 Press the **EXIT** button to exit.



- ◆ **Mode: Standard/Music/Movie/Speech/Custom**
You can select the type of special sound effect to be used when watching a given broadcast.

Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Sound Mode**.
- 3 Press the **◀** or **▶** button to select the required option.
- 4 Press the **EXIT** or **TOOLS** button to exit.



- ◆ **Equalizer: Mode/Balance/100Hz/300Hz/1kHz/3kHz/10kHz/Reset**

You can select a sound mode to suit your personal preferences.
The television has several settings which allow you to control the sound quality.
- **Reset** : Resets the equalizer settings to the default values.

- ◆ **SRS TruSurround XT: Off/On**

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.



TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc.
TruSurround XT technology is incorporated under license from SRS Labs, Inc.

- ◆ **Audio Language**

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

- While viewing a Digital channel, this function can be selected.
- You can only select the language among the actual languages being broadcast.

- ◆ **Audio Format: MPEG/Dolby Digital**

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.

- While viewing a Digital channel, this function can be selected.
- 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.

◆ **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.

◆ **TV Speaker: Off/On**

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

- The –  +, **MUTE** buttons do not operate when the **TV Speaker** is set to **Off**.
- When **TV Speaker** is set to **Off**, you can operate only **DTV : Audio Language, Audio Format, Sound Reset ATV** : Sound Reset in Sound menu.

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

◆ **Sound Reset: Reset All/Reset Sound Mode/Cancel**

You can restore the Sound settings to the factory defaults.

- **Reset All**: All the sound values return to default settings.
- **Reset Sound Mode**: Currently set values return to default settings.

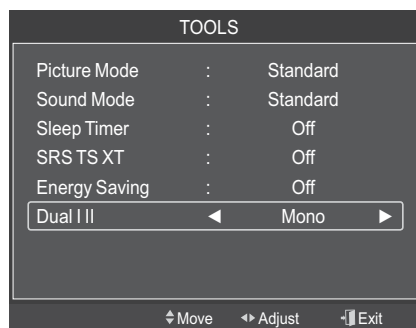
Selecting the Sound Mode (depending on the model)

The DUAL I-II button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either “DUAL-I” or “Stereo”, depending on the current transmission.

Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Dual I-II**.
- 3 Press the **◀** or **▶** button to select the required option.

	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)		
	Zweisprachig oder Dual-I/II	Dual I	↔	Dual II
	Stereo	Stereo	↔	Mono (Forced mono)



- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- ◆ If the stereo signal is weak and automatic switching occurs, switch to **Mono**.
- ◆ This function is only available in Analog TV mode.

Connecting Headphones (Sold separately)

You can connect a set of headphones to your set if you wish to watch a TV program without disturbing other people in the room.

- When you insert the head set jack into the corresponding port, you can operate only
DTV : Audio Language, Audio Format, TV Speaker, Sound Reset
ATV : TV Speaker, Sound Reset
- Prolonged use of headphones at a high volume may damage your hearing.
- You will not hear sound from the speakers when you connect headphones to the TV.
- The headphone volume and TV volume are adjusted separately.



Time Features

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
- 3 Press the **▲** or **▼** button to select **Time**, then press the **ENTER** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available options: **Clock**, **Sleep Timer**, **Timer 1**, **Timer 2**, **Timer 3**
- 5 When you are satisfied with your setting, press the **ENTER** button.
- 6 Press the **EXIT** button to exit.

◆ **Clock**

You can set the television clock so that the current time is displayed when pressing the **INFO** button on the remote control. You must also set the time if you wish to use the automatic on or off timers.

Option 1: Setting the Clock Manually

- **Clock Mode**

Press the **ENTER** button to select **Clock Mode**.

Press the **▲** or **▼** button to select **Manual**, then press the **ENTER** button.

- **Clock Set**

Press the **◀** or **▶** button to select **Day**, **Month**, **Year**, **Hour**, **Minute** or **am/pm**. Set these by pressing the **▲** or **▼** button.

➤ You can set the **Day**, **Month**, **Year**, **Hour**, or **Minute** directly by pressing the numeric buttons on the remote control.

Option 2: Setting the Clock Automatically

- **Clock Mode**

Press the **ENTER** button to select **Clock Mode**.

Press the **▲** or **▼** button to select **Auto**, then press the **ENTER** button.

- **Time Zone**

You can select the time zone where you are located.

➤ This menu is only enabled when you select a country supported by the time zone.

Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Sleep Timer**.
- 3 Press the **◀** or **▶** button to select the minute, then press the **ENTER** button.

◆ **Sleep Timer**

You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.

- Select the preset time interval (**Off**, **30**, **60**, **90**, **120**, **150**, or **180**) for staying on by pressing the **▲** or **▼** button.

◆ **Timer 1 / Timer 2 / Timer 3**

You can set the On/Off timers so that the television will switch on or off automatically at the time you select.

☞ You must set the clock first.

- Press the **◀** or **▶** button to select the required item below. Press the **▲** or **▼** button to adjust to the setting satisfied.

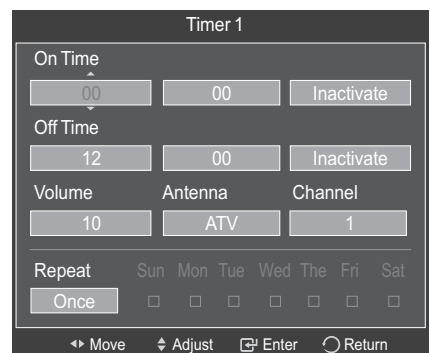
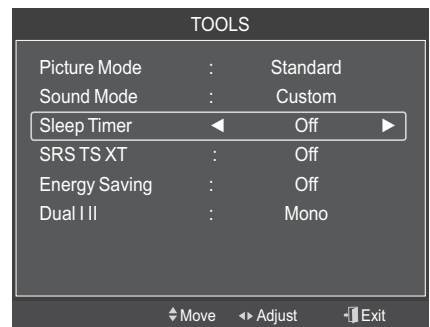
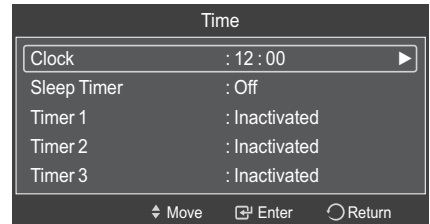
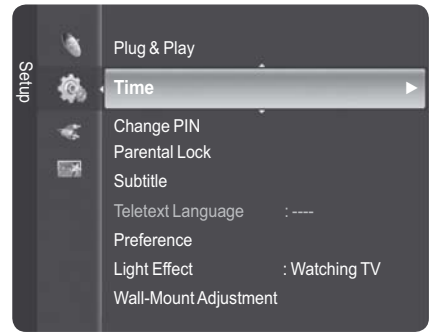
- **On Time** : Select hour, minute, and **Inactivate/Activate**. (To activate timer with the setting satisfied, set to **Activate**.)
- **Off Time** : Select hour, minute, and **Inactivate/Activate**. (To activate timer with the setting satisfied, set to **Activate**.)
- **Volume** : Select the required volume level.
- **Antenna** : You can select either Air or Cable when the TV turns on automatically.
- **Channel** : You can select the channel to be played when the TV turns on automatically.
- **Repeat** : Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, or **Sat~Sun**, **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 can set the hour, minute, directly by pressing the number buttons on the remote control.

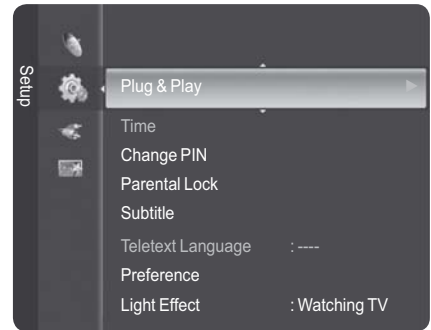
☞ **Auto Power Off**

When you set the timer "On", the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by 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.



Change PIN / Parental Lock / Subtitle / Teletext Language / Preference / Light Effect / Melody / Entertainment / Energy Saving

- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
Available options: **Change PIN, Parental Lock, Subtitle, Teletext Preference, Digital Text, Light Effect, Melody, Entertainment, Energy Saving**
- 4 When you are satisfied with your setting, press the **ENTER** button.
- 5 Press the **EXIT** button to exit.



◆ Change PIN

Press the **▲** or **▼** button to select **Change PIN**, then press the **ENTER** button. The **Enter PIN** is displayed. Enter your current 4-digit PIN code by using the numeric buttons (0~9).

- The **Enter New PIN** and **Confirm New PIN** is displayed.
- 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. The on-screen menu will instruct you to assign a PIN code (you can change it later, if necessary).

- The default PIN code for a new TV set is 0000.

◆ Subtitle

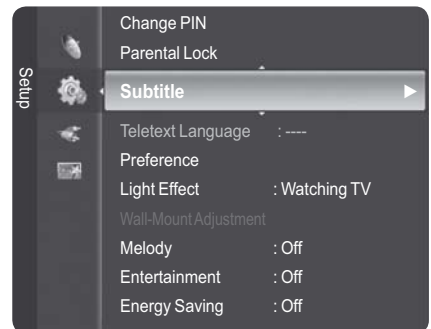
➤ Subtitle : On / Off

- You can select these options simply by pressing the **SUBT.** button on the remote control.

➤ Mode : Normal (basic subtitle) / Hard of hearing (subtitle for a hearing-impaired person)

- 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.

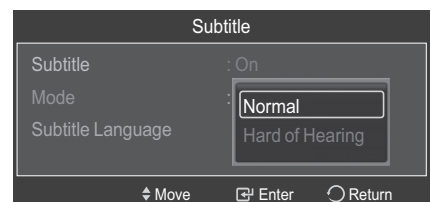
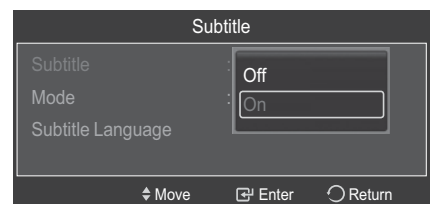
➤ Subtitle Language : You can change the default value for subtitle languages.



◆ 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.
- While viewing a programme, the subtitle can be selected. While viewing a programme, audio languages can be selected.



Continued...

◆ **Preference**

This menu consists of 6 sub-menus:

Primary Audio Language, Secondary Audio Language, Primary Subtitle Language, Secondary Subtitle Language, Primary Teletext Language, and Secondary Teletext Language (depending on the Country).

Using this feature, users can select one of the languages (English, German, Italian, Swedish, French, Welsh, Gaelic, Irish, Danish, Finnish, Spanish, Dutch). The language selected here is the default when the user selects a channel.

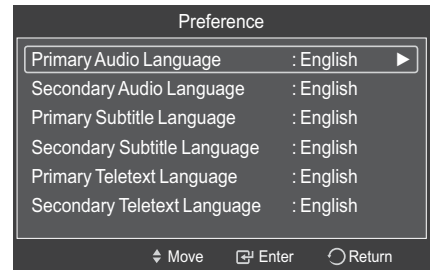
➤ Press the ▲ or ▼ button to select required menu (**Primary Audio Language, Secondary Audio Language, Primary Subtitle Language, Secondary Subtitle Language, Primary Teletext Language, or Secondary Teletext Language**), then press the ENTER button.

The options of the selected menu are displayed.

➤ Press the ▲ or ▼ button to select required option (**Bulgarian, Croatian, Czech, Danish, Dutch, English, Finnish, French, Gaelic, German, Greek, Hungarian, Irish, Italian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Spanish, Swedish, Turkish, Welsh**), then press the ENTER button.

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

- The **Audio Language, Subtitle 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 Audio Language, Primary Subtitle Language, or the Primary Teletext Language** of the **Preference** menu.



◆ **Light Effect : Off/In Standby/Watching TV/Always**

You can turn on/off the blue LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.

- **Off:** The blue LED is always off.
- **In Standby:** The blue LED lights while in Standby mode and it turns off when your TV is turned on.
- **Watching TV:** The blue LED lights when watching TV and it turns off when your TV is turned off.
- **Always:** The blue LED always lights.

◆ **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.

◆ **Entertainment : Off/Sports/Cinema/Game**

Entertainment mode enables you to select the optimal display and sound for sports, cinema and games.

- **Off:** Switches the **Entertainment** function off.
- **Sports:** Provides the optimal picture and sound quality for sports.
- **Cinema:** Provides the optimal picture and sound quality for movie watching. You can experience a richer picture and enhanced sound.
- **Game:** Provides the optimal picture and sound quality for games. This mode accelerates the playing speed when using an external game console connected to the TV.
- If you set any of the three **Entertainment** modes to **On**, the settings will be locked and can not be adjusted. If you want to make Picture and Sound mode adjustments, the Entertainment mode must be turned off.
- The Entertainment settings are saved for each input source.

Continued...

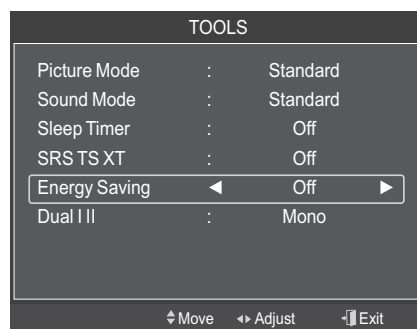
◆ **Energy Saving: Off/Low/Medium/High**

This feature adjusts the screen brightness depending on the surrounding lighting conditions.

- **Off:** Switches off the Energy Saving mode.
- **Low:** Operates in standard mode regardless of the surrounding illumination.
- **Medium:** Enters Medium power saving mode regardless of the surrounding illumination.
- **High:** Enters maximum power saving mode regardless of the surrounding illumination.

Easy Setting

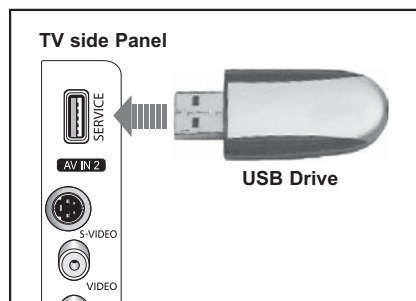
- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Energy Saving**.
- 3 Press the **◀** or **▶** button to select the required option.



Upgrading the Software

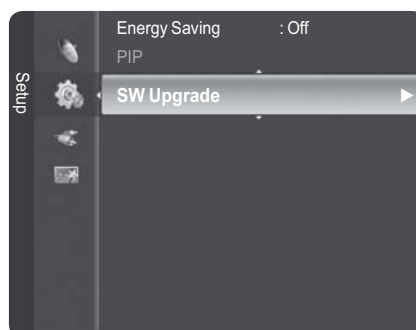
Samsung may offer upgrades for your TV's firmware in the future. Please contact the Samsung call center at 3260 SAMSUNG to receive information about downloading upgrades and using a USB drive. Upgrades will be possible by connecting a USB drive to the USB port.

- 1 Insert a USB drive containing the firmware upgrade into the USB Upgrade Port on the side of the TV.



- 2 Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.

- 3 Press the **▲** or **▼** button to select **SW Upgrade**, then press the **ENTER** button.



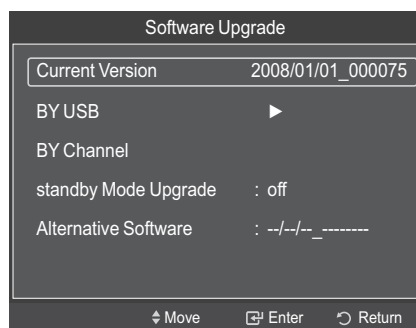
- 4 Press the **▲** or **▼** button to select "BY USB", "BY Channel" or "Standby Mode Upgrade". Press the **ENTER** button.

◆ **BY USB :**

- Preset : 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 LCD product. This phenomenon may continue for more than 1 hour until the software upgrade is completed.

◆ **Alternative Software :**

To display the software version information.

Setting up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But 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 Right click the mouse on the Windows Desktop, then click on **Properties**.
The **Display Properties** will be displayed.
- 2 Click on **Settings tab**, then set the Display Mode with reference to the Display Modes Table. You do not need to change the Colours settings.
- 3 Click on **Advanced**. A new settings dialog box will be displayed.
- 4 Click on the **Monitor** tab, then set the **Screen refresh rate** with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so instead of setting the **Screen refresh rate**.
- 5 Click on **OK** to close the window, then Click on **OK** button to the **Display Properties** window. Automatic re-booting may commence at this moment.



Input Mode (PC)

Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

D-Sub Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)	PS42A410	PS50A410
IBM	640 x 350	31.469	70.086	25.175	+ / -	✓	✓
	720 x 400	31.469	70.087	28.322	- / +	✓	✓
VESA	640 x 480	31.469	59.940	25.175	- / -	✓	✓
	640 x 480	37.861	72.809	31.500	- / -	✓	✓
	640 x 480	37.500	75.000	31.500	- / -	✓	✓
	800 x 600	37.879	60.317	40.000	+ / +	✓	✓
	800 x 600	48.077	72.188	50.000	+ / +	✓	✓
	800 x 600	46.875	75.000	49.500	+ / +	✓	✓
	1024 x 768	48.363	60.004	65.000	- / -	✓	✓
	1024 x 768	56.476	70.069	75.000	- / -	✓	✓
	1024 x 768	60.023	75.029	78.750	+ / +	✓	✓
	1360 x 768	47.712	60.015	85.500	+ / +	✓	✓

HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)	PS42A410	PS50A410
VESA	640 x 480	31.469	59.940	25.175	- / -	✓	✓
	800 x 600	37.879	60.317	40.000	+ / +	✓	✓
	1024 x 768	48.363	60.004	65.000	- / -	✓	✓
	1360 x 768	47.712	60.015	85.500	+ / +	✓	✓

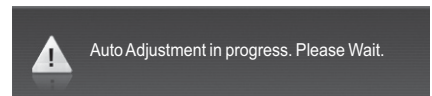
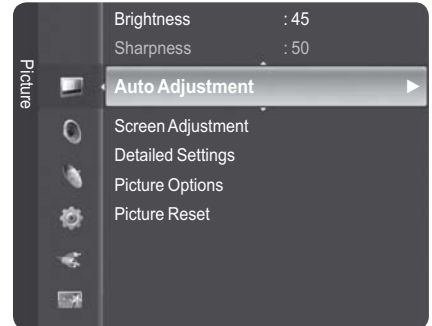
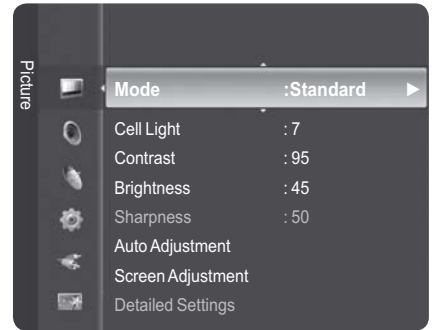
- ◆ When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.
- ◆ The interlace mode is not supported.
- ◆ The set might operate abnormally if a non-standard video format is selected.
- ◆ Separate and Composite modes are supported. SOG is not supported.
- ◆ For the **PS42A410** PC text quality is optimum in **VESA** mode(1024 x 768@60Hz).
- ◆ For the **PS50A410** PC text quality is optimum in **VESA** mode (1360 x 768@60Hz).

Setting the PC

➤ Preset to the **PC** mode by pressing the **SOURCE** button.

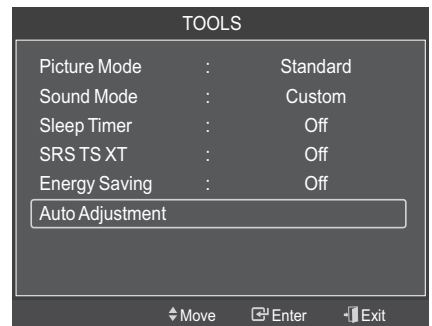
- 1 Press the **MENU** button to display the menu.
- 2 Press the **▲** or **▼** button to select **Picture**, then press the **ENTER** button.
- 3 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.
- 4 When you are satisfied with your setting, press the **ENTER** button.
- 5 Press the **EXIT** button to exit.

- ◆ **Auto Adjustment :**
Auto adjustment allows the PC screen to self-adjust to the incoming PC video signal.
The values of fine, coarse and position are adjusted automatically.



Easy Setting

- 1 Press the **TOOLS** button on the remote control.
- 2 Press the **▲** or **▼** button to select **Auto Adjustment**, then press the **ENTER** button.



◆ Screen Adjustment: Coarse/Fine/Position/Image Reset

- Coarse/Fine

The purpose of picture quality adjustment is to remove or reduce picture noise.

If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again.

After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

- 1 Press the ▲ or ▼ button to select **Coarse** or **Fine**, then press the **ENTER** button.
- 2 Press the ◀ or ▶ button to adjust the screen quality, vertical stripes may appear or the picture may be blurry. Press the **ENTER** button.

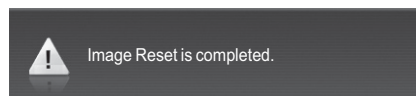
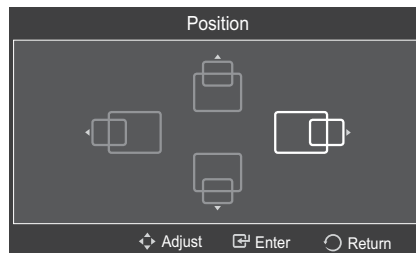
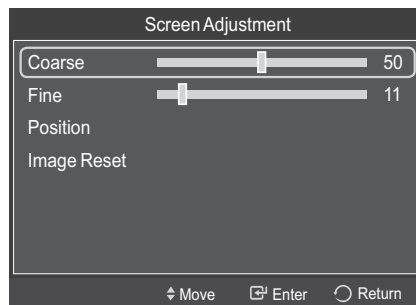
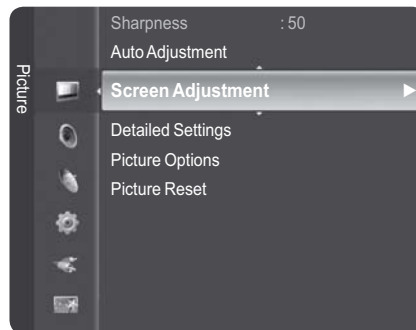
- Position

Adjust the PC's screen positioning if it does not fit the TV screen.

- 1 Adjust the position by pressing the ▲/▼/◀/▶ button.
- 2 Press the **ENTER** button.

- Image Reset














You can replace all image settings with the factory default values.



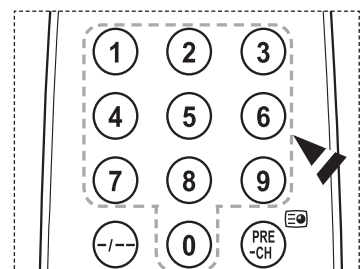
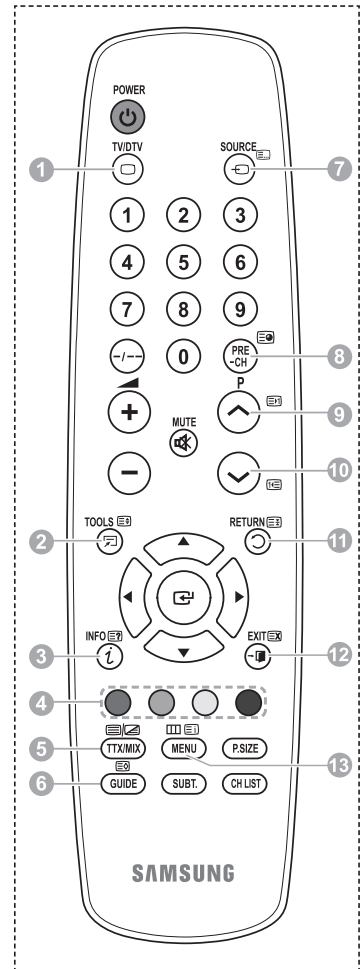
Teletext Feature (depending on the model)

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 (depending on the model)
- 2  **(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.
- 3  **(reveal)**
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.
- 4 **Coloured buttons (red/green/yellow/blue)**
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colourcoded 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.
- 5  **(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.
- 6  **(store)**
Used to store the teletext pages.
- 7  **(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.
- 8  **(sub-page)**
Used to display the available sub-page.
- 9  **(page up)**
Used to display the next teletext page.
- 10  **(page down)**
Used to display the previous teletext page.
- 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  **(index)**
Used to display the index (contents) page at any time while you are viewing teletext.

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



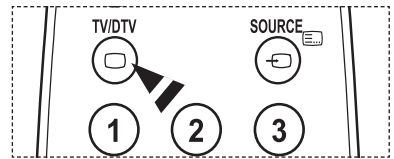
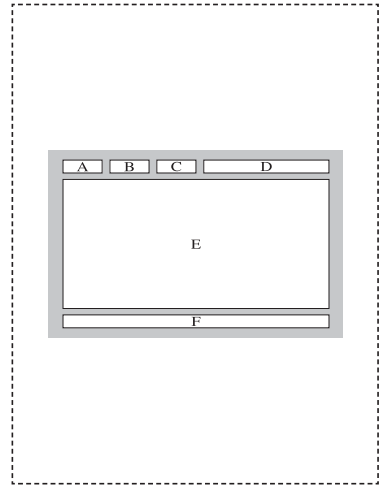
Continued...

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.

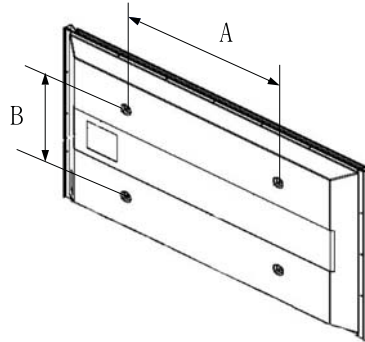
- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
 - ◆ Entering the page number
 - ◆ Selecting a title in a list
 - ◆ Selecting a coloured heading (FASTEXT system)

- Press the **TV/DTV** 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.



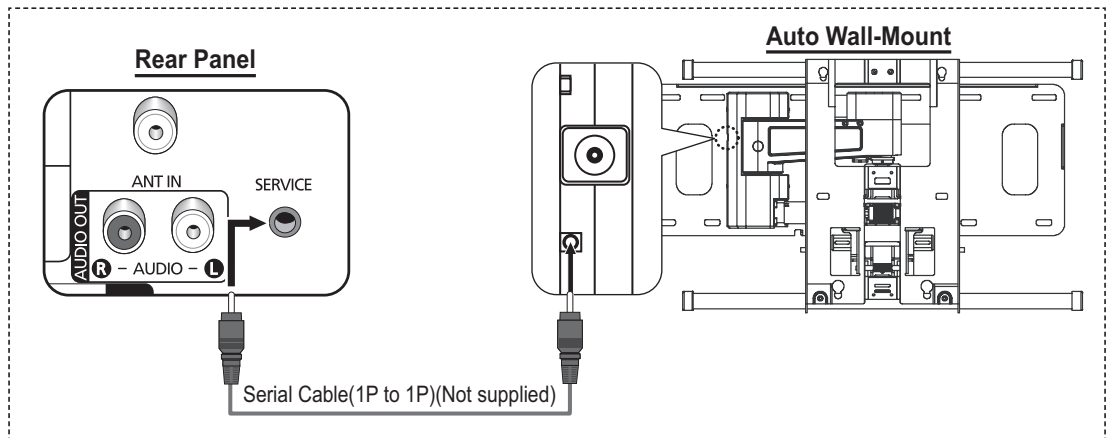
Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	23 ~ 26	200 * 100	M4	4
	32 ~ 40	200 * 200	M6	
	46 ~ 52	400 * 400 600 * 400	M8	
	57	700 * 400 (No VESA)		
	57 ~ 70	800 * 400		
	80 ~	1400 * 800		
PDP-TV	42 ~ 58	400 * 400 600 * 400	M8	4
	63	676 * 407 (No VESA)		6
	63 ~ 70	800 * 400		4
	80 ~	1400 * 800		4

- 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.

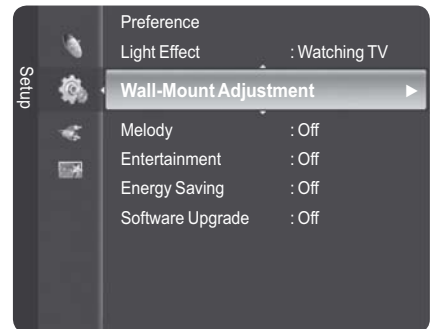
Wall-Mount Adjustment (Sold separately)

Once the auto wall mount is installed, the position of your TV can be easily adjusted.



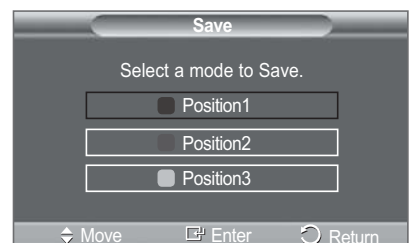
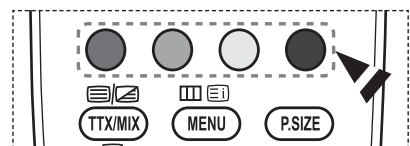
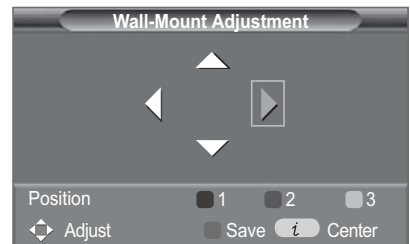
Entering the menu

- Press the **▲**, **▼**, **◀** or **▶** button on your remote control.
 - The Wall Mount Adjustment screen is displayed.
 - If the Wall Mount Adjustment screen is not displayed when clicking on a direction button while watching your TV, use the menu to display that screen.
 - Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select **Setup**, then press the **ENTER** button.
 - Press the **▲** or **▼** button to select **Wall-Mount Adjustment**, then press the **ENTER** button.



Remembering the Position

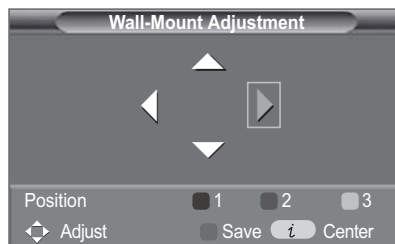
- Adjust to the desired position using the **▲**, **▼**, **◀**, **▶** buttons.
 - If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.
 - Press the **INFO** button to reset. Press the **◀** or **▶** button to select **Yes**, then press the **ENTER** button. The position is initialized to the default setting.
- Press the blue button.
 - Press the **▲** and **▼** buttons to select a save mode from either **Position1**, **Position2** or **Position3** in order to save the current position.
 - To not save the current position, press the **RETURN** button.
 - When selecting a save mode, you cannot use the Color buttons.
- Press the **ENTER** button to save.
 - When **Position1** is selected, the message **Current position saved as Position1** is displayed.
- Press the **ENTER** button.
 - The saved Position appears on the left side of the OSD.



Continued...

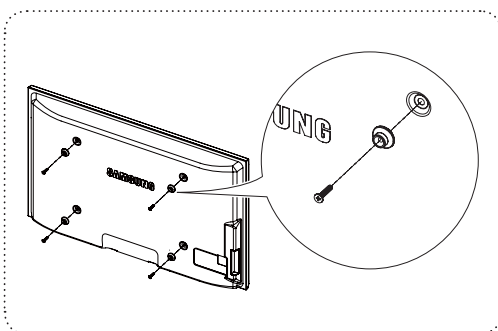
Moving to the remembered position

- 1 Complete Step 1 of **Entering the menu**.
 - 2 Pressing a Color (Red, Green, Yellow) button moves the auto wall mount to the saved position.
 - You can move the wall mount to one of the 3 pre-set positions by pressing the Red (Position 1), Green (Position 2) or Yellow (Position 3) buttons.
 - If you adjust the position after moving to a pre-set position, the position display will disappear.
- For installation, refer to the Installation Manual provided with the wall mount.
 - For product installation and the installation and moving of the wall mount, make sure to consult a specialized installation company.
 - This installation manual is to be used when attaching the wall mount to a wall. When attaching to other building materials, please contact your nearest dealer.
 - 42 inches model is not compatible with the older wall mount model (WMN5090A).

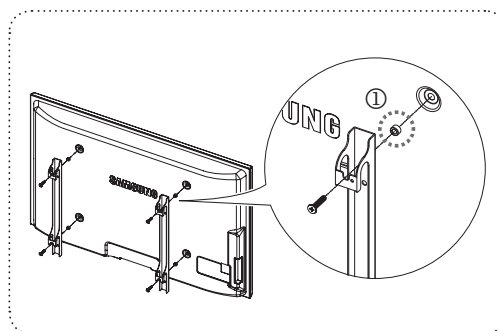


Preparing before installing Wall-Mount on the wall

Case A.
Installing SAMSUNG Wall-Mount



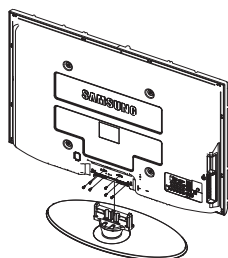
Case B.
Installing other company's Wall-Mount



- 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 [①] for installing other company's Wall-Mount on Samsung TV. (Case B)

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

Using the 6 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.)

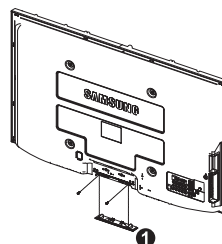


Warning

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 (①) on the stand-base connection part using two screws for hiding.



Securing the TV to the Wall

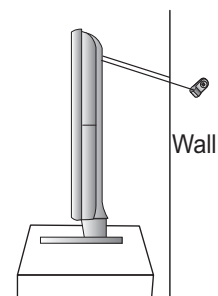
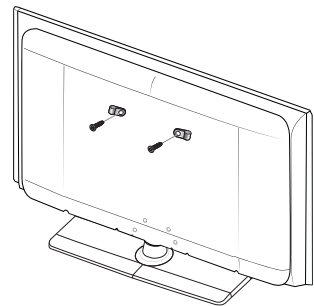
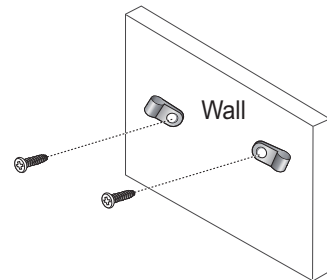


Caution

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. In this case, please purchase the screws of the following specifications.
- 3 Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
 - 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

Before contacting the Samsung after-sales service, perform the following simple checks. If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture

- ◆ Check that the mains lead has been connected to a wall socket.
- ◆ Check that you have pressed the  (Power) button (On/Off) on the front panel or press the **POWER** button on the remote control.
- ◆ Check the picture contrast and brightness settings.
- ◆ Check the volume.
- ◆ Check if TV Speaker is set to Off.

Normal picture but no sound

- ◆ Check the volume.
- ◆ Check whether the volume **MUTE** button on the remote control has been pressed.

No picture or black and white picture

- ◆ Adjust the colour settings.
- ◆ Check that the broadcast system selected is correct.

Sound and picture interference

- ◆ Try to identify the electrical appliance that is affecting the television, then move it further away.
- ◆ Plug the television into a different main socket.

Blurred or snowy picture, distorted sound

- ◆ Check the direction, location and connections of your aerial.
This interference often occurs due to the use of an indoor aerial.

Remote control malfunctions

- ◆ Replace the remote control batteries.
- ◆ Clean the upper edge of the remote control (transmission window).
- ◆ Check that the "+" and "-" ends of the batteries are inserted correctly.
- ◆ Check that the batteries are drained.

Screen is black and power indicator light blinks steadily

- ◆ On your computer check; Power, Signal Cable.
- ◆ The TV is using its power management system.
- ◆ Move the computer's mouse or press any key on the keyboard.
- ◆ On your equipment check (STB, DVD, etc) ; Power, Signal Cable.
- ◆ The TV is using its power management system.
- ◆ Press the Source button on the panel or remote control.
- ◆ Turn the TV off and on.

The damaged picture appears in the corner of the screen.

- ◆ If **Just Scan** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.

The "Resets all settings to the default values" message appears.

- ◆ This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.

Specifications

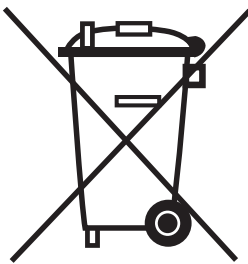
The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model Name	PS42A410	PS50A410
Screen Size (Diagonal)	42 inch	50 inch
PC Resolution	1024 x 768 @ 60 Hz	1360 x 768 @ 60 Hz
Sound (Output)	10W x 2	10W x 2
Dimension (WxHxD) Body With stand	1054.9 X 699.4 X 95.0 mm 1054.9 X 759.4 X 315.9 mm	1230.9 X 769.7 X 95.0 mm 1230.9 X 821.8 X 315.9 mm
Weight Body With stand	27.8 Kg 31.5 Kg	34 Kg 37.6 Kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10 °C to 40 °C (50 °F to 104 °F) 10% to 80%, non-condensing -20 °C to 45 °C (-4 °F to 113 °F) 5% to 95%, non-condensing	

- ◆ 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.

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

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

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it 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 this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.