SAMSUNG

PDP-TELEVISION
(PLASMA DISPLAY PANEL)

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
Picture In Picture (PIP)
Energy Saving
TELETEXT (Option)
SRS TruSurroundXT
DNIe™ Digital Natural Image engine
Digital Terrestrial Receiver

This device is a Class B digital apparatus.
Register your product at www.samsung.com/global/register

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 periods of use as heat dissipates from the panel through the vent
   hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the
   product. However, children should be prevented from touching the upper part of the product.

◆ **The product is making a 'cracking' noise.**
   A 'cracking' noise may occur when the product contracts or expands due to a change 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.
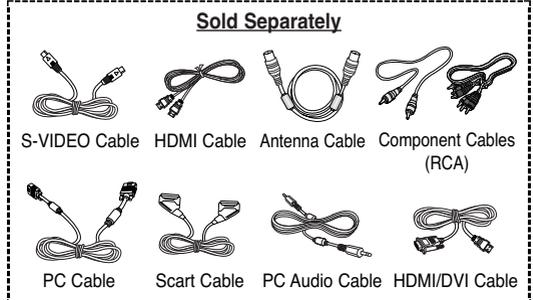
◆ **Warranty**
   - Warranty does not cover any damage caused by image retention.
   - Burn-in is not covered by the warranty.

◆ **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.

Checking Parts

Owner's
Instructions

Remote Control/
AAA Batteries

Warranty Card/
Registration Card/
Safety Guide Manual
(Not available in all
locations)

Power Cord

Cloth-Clean
(PS-42Q7HD/PS-50Q7HD)

Sold Separately

S-VIDEO Cable

HDMI Cable

Antenna Cable

Component Cables
(RCA)

PC Cable

Scart Cable

PC Audio Cable

HDMI/DVI Cable

Contents

Contents

Symbols

▲

☞

➢

Press   **Important**   **Note**

Control Panel (depending on the model)

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

Front (or Side) Panel

SOURCE
MENU
+
I
C/P.
ENTER
Power

Speaker
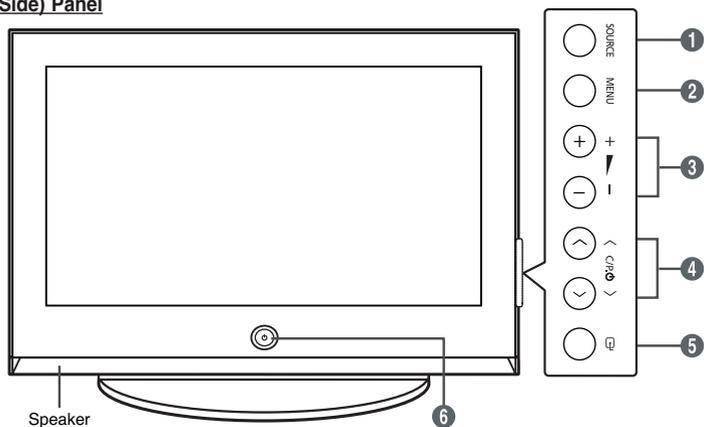
❶ **SOURCE**
Displays a menu of all of the available input sources
(TV, Ext.1, Ext.2, AV, S-Video, Component, PC,
HDMI, DTV).

❷ **MENU**
Press to see the on-screen menu of your TV's
features.

❸ **− +**
Press to decrease or increase the volume.
In the on-screen menu, use the **− +** buttons as
you use the ◄ and ► buttons on the remote control.

❹ **∨ C/P. ∧**
Press to change channels. In the on-screen menu,
use the **∨ C/P. ∧** buttons as you use the
▲ and ▼ buttons on the remote control.

❺ **(ENTER)**
Press to confirm a selection.

❻ **(Power) button**
Press to turn the TV on and off.

Power Indicator
- Power Off: Blue
- Power On: Off

Remote Control Sensor
Aim the remote control towards this spot on the TV.

➢ Press the **MENU** button once in DTV mode, then the DTV menu is displayed.

Connection Panel (depending on the model)

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

Side Panel

AV IN
S-VIDEO
VIDEO
AUDIO
L
R

or
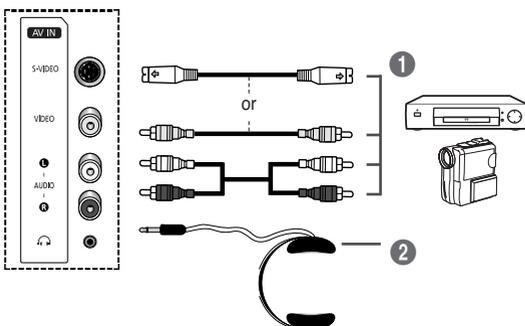
❶ **S-Video or Video / Audio L/R**
- Video (S-Video or Video) and
audio inputs for external devices,
such as a camcorder or VCR.

❷ **headphones jack**
- You can connect a set of
headphones to your television 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.

Connection Panel (depending on the model)

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

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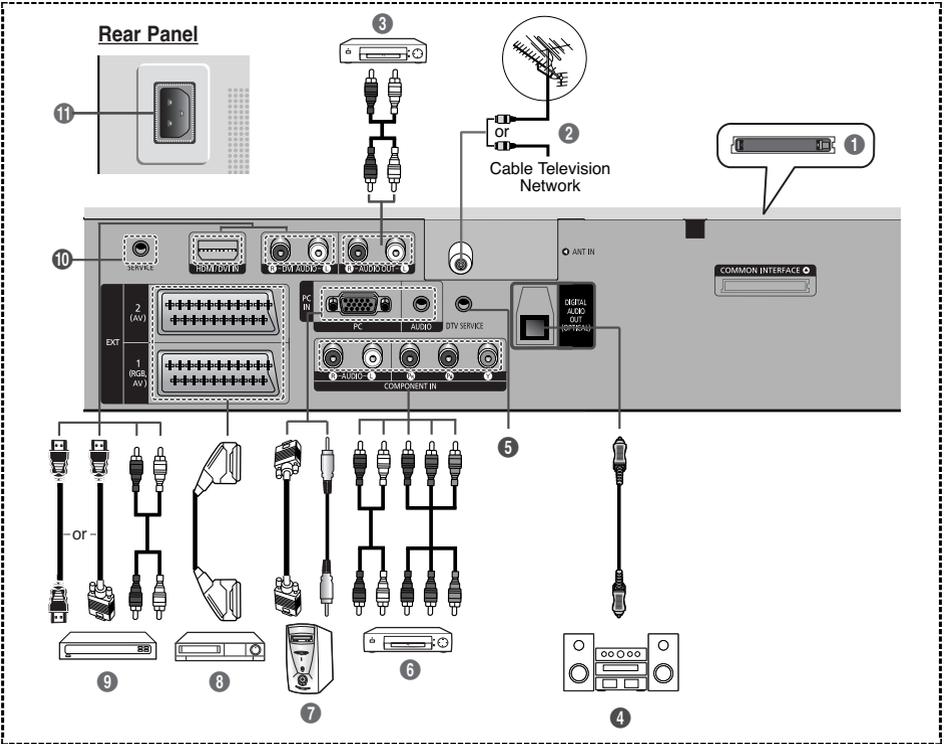
☛ Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
☛ When connecting an external device, match the colour of the connection terminal to the cable.

❶ Common Interface Slot
 - Insert CI (Common Interface) card into the slot.
❷ ANT IN VHF/UHF (75Ω)
 - 75Ω Coaxial connector for Aerial/Cable Network.
❸ Connecting external Audio Devices
 - Connect RCA audio signals from the TV to an external source, such as Audio equipment.
❹ DIGITAL AUDIO OUT (OPTICAL)
 - Connect to a Digital Audio Component.
❺ DTV SERVICE
 - Connector for service only.
❻ COMPONENT IN
 - Video (Y/PB/PR) and audio (AUDIO L/R) inputs for Component.
❼ PC IN / AUDIO
 - Connect to the video and audio output jack on your PC.
❽ EXT 1, EXT 2
 - Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

Input/Output Specification

Connector	Input				Output
	Video	Audio (L/R)	S-Video	RGB	Video + Audio (L/R)
EXT 1	✔	✔	✔	✔	Only TV or DTV output is available.
EXT 2	✔	✔	✔		Output you can choose.

❾ HDMI/DVI IN
 - Connect to the HDMI jack of a device with HDMI output. These inputs can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using the optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC)
 - When connecting this product via HDMI or DVI to a Set Top Box, DVD Player or Games Console etc, make sure that it has been set to a compatible video output mode as shown in the table below. Failure to observe this may result in picture distortion, image breakup or no picture.
 - Do not attempt to connect the HDMI/DVI connector to a PC or Laptop Graphics Card. (This will result in a blank screen being displayed)
 DVI AUDIO IN L/R
 - DVI audio outputs for external devices.
❿ SERVICE
 - Connector for service only.
⓫ POWER IN
 - Connect the supplied power cord.

➢ Supported modes for HDMI/DVI and Component

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

Viewing the Remote Control (depending on the model)

1. POWER button
   (turns the TV on and off)

2. Number buttons for direct channel access

3. One/Two-digit channel selection

4. Channel control button (Refer to page 11~12)

5. Selects the TV and DTV mode directly

6. ⊕ Volume increase
   ⊖ Volume decrease

7. Temporary sound switch-off

8. Displays the main on-screen menu

9. Electronic Program Guide (EPG) display

10. Picture-In-Picture On/Off

11. Picture effect selection (Refer to page 13)

12. Picture freeze

13. Sound mode selection

14. Remote control setup

15. Selects a target device to be controlled by the Samsung remote control (TV, DVD, STB, CABLE, VCR)

16. Available source selection

17. Previous channel

18. DTV menu display

19. Automatic Power-off

20. VCR/DVD Function (Rewind, Stop, Play/Pause, Fast/Forward)

21. ⌃ Next channel
    ⌄ Previous channel

22. Exit the on-screen menu

23. Control the cursor in the menu

24. Use to see information on the current broadcast

25. Fastext topic selection

26. Picture size selection

27. Sound effect selection (Refer to page 16)

28. Digital subtitle display

29. TruSurround XT mode button

30. If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds.
    Re-insert the batteries and try using the remote control again.

Teletext Functions
(Refer to page 36)

5. Exit from the teletext display (depending on the model)

8. Teletext index

10. Teletext hold

11. Teletext size selection

16. Teletext mode selection (LIST/FLOF)

17. Teletext sub page

21. P ⌃ : Teletext next page
    P ⌄ : Teletext previous page

22. Teletext cancel

24. Teletext reveal

23. Teletext display/mix both
    Pressing TEXT/MIX selects Teletext, Double, or Mix mode in sequence.

26. Fastext topic selection

28. Teletext store
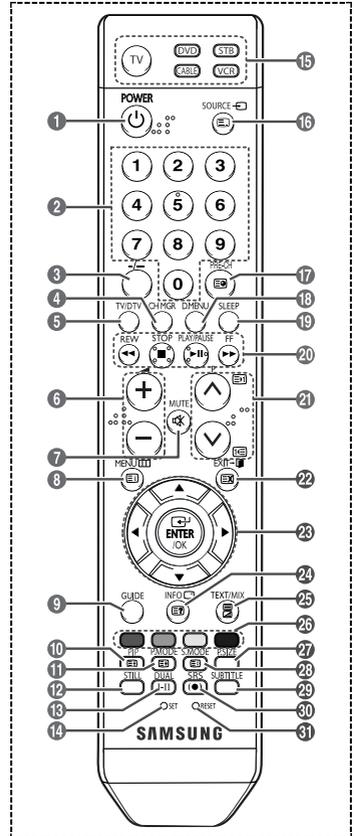
➤ The performance of the remote control may be affected by bright light.

➤ This is a special remote control for the visually impaired, and has Braille points.

Installing Batteries in the Remote Control
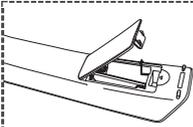
1 Lift the cover at the back of the remote control upward as shown in the figure.

2 Install two AAA size batteries.
> ➤ Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.
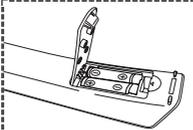
3 Close the cover as shown in the figure.
> ➤ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)

> ➤ **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?
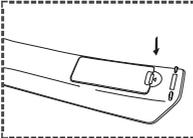
Switching Your Television On and Off

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 programme 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 10 or "Storing Channels Manually" on page 11.

> ➤ If the television is initially powered on, several basic customer settings proceed automatically.
> Refer to "Plug & Play Feature" on page 9.

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 Menus

1 Press the **MENU** (▯▯) button.
The main menu is displayed on the screen.
Its left side has five icons: **Input**, **Picture**, **Sound**, **Channel**, and **Setup**.

2 Press the ▲ or ▼ button to select one of the icons.
Press the **ENTER/OK** (⏎) button to access the icon's sub-menu.

3 Press the ▲ or ▼ button to move to items in the menu.
Press the **ENTER/OK** (⏎) button to enter items in the menu.

4 Press the ▲/▼/◄/► button to change the selected items.
Press the **MENU** (▯▯) button to return to the previous menu.

5 Press the **EXIT** button to exit from the menu.
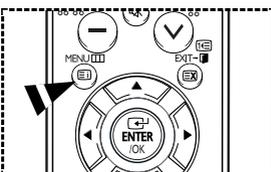
Freezing the Current Picture

You can freeze the picture when watching a television programme simply by pressing the "**STILL**" button. To return to normal viewing, press it again.

➢ This function will automatically cancel five minutes later.
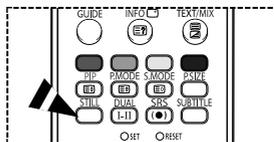
Plug & Play Feature

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

1 If the television is in standby mode, press the **POWER** (⏻) button on the remote control. The message to start Plug & Play is displayed.

2 The `Language` menu will automatically appear after several seconds.

3 Select the appropriate language by pressing the ▲ or ▼ button.
Press the **ENTER/OK** (⏎) button. The message to check the connected status of the antenna is displayed.

4 Make sure that the antenna is connected to the TV.
Press the **ENTER/OK** (⏎) button. The `Country` menu is displayed.

5 Select your country or area by pressing the ▲ or ▼ button.
Press the **ENTER/OK** (⏎) button. The menu to select channels is displayed.

6 To start channel store, press the **ENTER/OK** (⏎) button.
The search will end automatically. The TV will begin memorizing all of the available channels.
Press the **ENTER/OK** (⏎) button to set the clock.

7 Press the ◄ or ► button to select the hour or minute.
Set these by pressing the ▲ or ▼ button.

➢ You can enter the Hour, Minute by using the numeric buttons on the remote control.

8 Press the **ENTER/OK** (⏎) button to confirm your setting.
The DTV channel scan menu appears and the DTV channel is automatically updated.

➢ If the DTV channel is updated, the Source in the source list of the Input menu is automatically changed to DTV.

➢ For detailed descriptions about DTV channel update, refer to page 23 of this manual.

If you want to reset this feature …

1 Press the **MENU** (▯) button to display the menu.

2 Press the ▲ or ▼ button to select `Setup`, then press the **ENTER/OK** (⏎) button.

3 Press the **ENTER/OK** (⏎) button again to select `Plug & Play`.
The message to start Plug & Play is displayed.

Viewing an External Signal Source

TV	Source List
TV	
Ext.1	: ----
Ext.2	: ----
AV	: ----
S-Video	: ----
Component	: ----
PC	: ----
HDMI	: ----
DTV	: ----
♦ Move	Enter Return

POWER SOURCE

TV/DTV CH MGR D.MENU SLEEP
REW STOP PLAY/PAUSE FF

You can switch between viewing signal from connected equipment, such as a VCR, DVD, Set-Top Box, and the TV source (air or cable).

1 Press the **MENU** (▯▯) button to display the menu.

2 Press the **ENTER/OK** (▭↵) button to select `Source List`.

3 Press the **ENTER/OK** (▭↵) button again.

4 Press the ▲ or ▼ button to select the signal source, then press the **ENTER/OK** (▭↵) button.

Available signal source: `TV`, `Ext.1`, `Ext.2`, `AV`, `S-Video`, `Component`, `PC`, `HDMI`, `DTV`

➢ 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

TV	Edit Name
Ext.1	:
Ext.2	– – – –
AV	VCR
S-Video	DVD
Component	D-VHS
PC	Cable STB
HDMI	▼
	– – – –
♦ Move	Enter Return
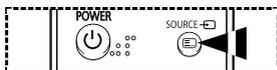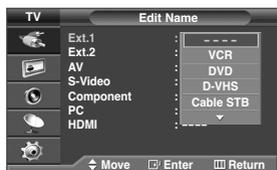
You can give a name to the external source.

1 Press the **MENU** (▯▯) button to display the menu.

2 Press the **ENTER/OK** (▭↵) button.

3 Press the ▲ or ▼ button to select `Edit Name`, then press the **ENTER/OK** (▭↵) button.

4 Press the ▲ or ▼ button to select the external source to be edited, then press the **ENTER/OK** (▭↵) button.

5 Select the required device by pressing ▲ or ▼, then press the **ENTER/OK** (▭↵) button.

Available device names: `VCR`, `DVD`, `D-VHS`, `Cable STB`, `HD STB`, `Satellite STB`, `AV Receiver`, `DVD Receiver`, `Game`, `Camcorder`, `DVD Combo`, `DHR (DVD HDD Recorder)`, or `PC`.

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

Storing Channels Automatically

Auto Store	
P 1 C --	40 MHz
	0 %
Start	
Enter Return	

➢ Not available in DTV or external input mode.

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/OK** (▭↵) button.

3 Press the **ENTER/OK** (▭↵) button again. The available countries are listed.

4 Select your country by pressing the ▲ or ▼ button, then press the **ENTER/OK** (▭↵) button.

5 Press the ▲ or ▼ button to select `Auto Store`, then press the **ENTER/OK** (▭↵) button.

6 Press the **ENTER/OK** (▭↵) button again to start the search. The search will end automatically.
➢ To stop the search before it has finished, press the **MENU** (▯▯) or the **ENTER/OK** (▭↵) button.

Storing Channels Manually

➢ Not available in DTV or external input mode.

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.

TV	Manual Store
	Programme : P 1
	Colour System : AUTO ▷
	Sound System : BG ▷
	Channel : C 4
	Search : 62 MHz
	Store : ?
	◆ Move ◱ Enter ▥ Return

1   Press the **MENU** (▯▯▯) button to display the menu.

2   Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** (◱) button.

3   Press the ▲ or ▼ button to select **Manual Store**, then press the **ENTER/OK** (◱) button.

4   Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (◱) button.

5   When you are satisfied with your setting, press the **ENTER/OK** (◱) button.

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

◆ **Programme** (Programme number to be assigned to a channel)
   – Press the ▲ or ▼ button until you find the correct number.
◆ **Colour System**: **AUTO/PAL/SECAM/NTSC 4.43**
   – Press the ▲ or ▼ button to select the required colour standard.
◆ **Sound System**: **BG/DK/I/L**
   – 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/OK** (◱) 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.
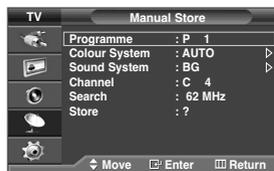
Adding / Locking Channels

➢ Not available in DTV or external input mode.

Using the Channel Manager, you can conveniently lock or add channels.

TV	Channel Manager
	Channel Manager ▷
	Child Lock : On ▷
	◆ Move ◱ Enter ▥ Return

1   Press the **MENU** (▯▯▯) button to display the menu.

2   Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** (◱) button.

3   Press the ▲ or ▼ button to select **Channel Manager**, then press the **ENTER/OK** (◱) button.

◆ **Adding channels**
   Using the Channel Manager, you can add channels.

4   Select the **Channel Manager** by pressing the **ENTER/OK** (◱) button.

5   Move to the (⊞) field by pressing the ▲/▼/◀/▶ buttons, select a channel to be added, and press the **ENTER/OK** (◱) button to add the channel.
     ➢ If you press the **ENTER/OK** (◱) button again, the (✓) symbol next to the channel disappears and the channel is not added.

Channel Manager		
P 1 C 1		1/10
Prog.	⊞	🔒
0 ---		
1 C 1	✓	
2 C 3	✓	
3 C 5	✓	
4 C 8	✓	
5 C 9	✓	
6 C 10	✓	
7 C 11	✓	
8 C 12	✓	
9 S 12	✓	
⊞ Add 🔒 Lock		
◇ Move ◱ Enter		
⊘ Page ◂ Exit		

Adding / Locking Channels

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

4   Press the ▲ or ▼ button to select `Child Lock`, then press the **ENTER/OK** (⊕) button.

5   Select `On` by pressing the ▲ or ▼ buttons, then press the **ENTER/OK** (⊕) button.

6   Press the ▲ or ▼ buttons to select the `Channel Manager`, then press the **ENTER/OK** (⊕) button.

7   Move to the (🔒) field by pressing the ▲/▼/◄/► buttons, select a channel to be locked, and press the
   ENTER/OK (⊕) button.

   ➤ If you press the **ENTER/OK** (⊕) button again, the (✓) symbol next to the channel disappears and the
      channel lock is canceled.

   ➤ A blue screen is displayed when Child Lock is activated.

8   Press the **EXIT** button to exit.

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

Sorting the Stored Channels

TV	Sort	
	Prog.	Ch.	Name
	0	C --
	1	C 4 ▷
	2	C 74
	3	C 75
	4	S 1
	↕ Move	⊡ Enter	▥ Return
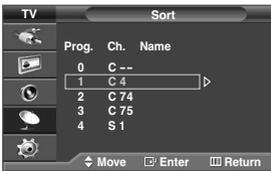
➤ Not available in DTV or external input mode.

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

1   Press the **MENU** (▥) button to display the menu.

2   Press the ▲ or ▼ button to select `Channel`, then press the **ENTER/OK** (⊕)
   button.

3   Press the ▲ or ▼ button to select `Sort`, then press the **ENTER/OK** (⊕) button.

4   Select the channel that you wish to move by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⊕) button.

5   Select the number of the programme to which the channel is to be moved by pressing the ▲ or ▼ button.
   Press the **ENTER/OK** (⊕) button. The channel is moved to its new position and all other channels are shifted
   accordingly.

6   Repeat steps **4** to **5** until you have moved all the channels to the required programme numbers.

7   Press the **EXIT** button to exit.

Assigning Names to Channels

TV	Name	
	Prog.	Ch.	Name
	0	C --	-----
	1	C 4	A
	2	C 74	-----
	3	C 75	-----
	4	S 1	-----
	◄► Move	↕ Adjust	▥ Return

➤ Not available in DTV or external input mode.

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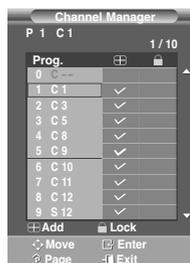broadcast. These names can be changed, allowing you to assign new names.

1   Press the **MENU** (▥) button to display the menu.

2   Press the ▲ or ▼ button to select `Channel`, then press the **ENTER/OK** (⊕)
   button.

3   Press the ▲ or ▼ button to select `Name`, then press the **ENTER/OK** (⊕) button.

4   Press the ▲ or ▼ button to select the channel to be assigned to a new name, then press the **ENTER/OK** (⊕) button.

5   Press the ▲ or ▼ button to select a letter (A~Z), a number (0~9), or a symbol. Move on to the previous or next letter
   by pressing the ◄ or ► button, then press the **ENTER/OK** (⊕) button.

6   Repeat steps **4** to **5** for each channel to be assigned to a new name.

7   Press the **EXIT** button to exit.

Fine Tuning Channel Reception

➢ Not available in DTV or external input mode.

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

```
┌─────────────────────────┐
│        Fine Tune        │
│                         │
│  P   1 *                │
│  ├──────────┤───┤  +3   │
│                         │
│         Reset           │
│                         │
│ ◆▶ Adjust  ⊞ Save ▥ Return│
└─────────────────────────┘

┌─────────────────────────┐
│  P   1 *                │
│  Mono                   │
│                         │
└─────────────────────────┘
```

1 Press the **MENU** (▭) button to display the menu.

2 Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** (⊡) button.

3 Press the ▲ or ▼ button to select **Fine Tune**, then press the **ENTER/OK** (⊡) button.

4 To obtain a sharp and clear picture and good sound quality, press the ◄ or ► button until you reach the optimal setting. Press the **ENTER/OK** (⊡) button.

   ➢ To reset the fine tuning to **0**, select **Reset** by pressing the ▲ or ▼ button.
      Press the **ENTER/OK** (⊡) button.

5 Press the **EXIT** button to exit.

   ➢ Fine Tune Store will change the colour of the Channel OSD (On Screen Display) from White to Red and add the "*" mark.

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.

```
┌───────────────────────────────┐
│ TV              Channel        │
│ 📡  Country      : Belgium    ▷│
│     Auto Store                ▷│
│ 🖼  Manual Store              ▷│
│     Channel Manager           ▷│
│ 🔊  Sort                      ▷│
│     Name                      ▷│
│ 🗀  Fine Tune                 ▷│
│     LNA         : Off         ▷│
│ ⚙                              │
│    ◆ Move   ⊡ Enter  ▥ Return │
└───────────────────────────────┘
```

1 Press the **MENU** (▭) button to display the menu.

2 Press the ▲ or ▼ button to select **Channel**, then press the **ENTER/OK** (⊡) button.

3 Press the ▲ or ▼ button to select **LNA**, then press the **ENTER/OK** (⊡) button.

4 Select **Off** or **On** by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⊡) button.

5 Press the **EXIT** button to exit.

   ➢ Depending on areas, factory mode of LNA, will be set up as On or Off.

Changing the Picture Standard

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

```
┌───────────────────────────────┐
│ TV               Mode          │
│ 📡  Mode        : ┌─────────┐  │
│     Contrast      │ Dynamic │ 0│
│ 🖼  Brightness    │ Standard│ 0│
│     Sharpness     │ Movie   │ 5│
│ 🔊  Colour        │ Custom  │ 5│
│     Tint        G 50 └──────┘R 50│
│ 🗀  Colour Tone : Cool1        │
│     Reset                      │
│ ⚙                              │
│    ◆ Move   ⊡ Enter  ▥ Return │
└───────────────────────────────┘

┌───────────────────────────────┐
│  ◢  ▢ P.MODE ▢ S.MODE ▢ P.SIZE │
│  🔘 ▢ STILL ▢ DUAL  ▢ SRS ▢ SUBTITLE│
└───────────────────────────────┘
```

1 Press the **MENU** (▭) button to display the menu.

2 Press the ▲ or ▼ button to select **Picture**, then press the **ENTER/OK** (⊡) button.

3 Press the **ENTER/OK** (⊡) button twice.

4 Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⊡) button.

   Available modes: **Dynamic**, **Standard**, **Movie**, **Custom**

   ➢ The settings values may vary depending on the input source. (ex. RF, Video, Component, PC, or HDMI)

5 Press the **EXIT** button to exit.

➢ You can select these options simply by pressing the **P.MODE** button on the remote control.

➢ ◆ Choose Dynamic for viewing the TV during the day or when there is bright light in the room.
   ◆ Choose Standard for the standard factory settings.
   ◆ Choose Movie when viewing the movie.
   ◆ Choose Custom if you want to adjust the settings according to personal preference.

Customizing the Picture Settings

TV	Mode
Mode	: Dynamic
Contrast	100
Brightness	Cool2
Sharpness	Cool1
Colour	Normal
Tint G 50	Warm1
Colour Tone :	Warm2
Reset	

◆ Move ⏎ Enter ⭢ Return

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 ▲ or ▼ button to select **Picture**, then press the **ENTER/OK** (⏎) button.

3 Press the **ENTER/OK** (⏎) button twice.

4 Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

  Available modes: **Dynamic**, **Standard**, **Movie**, **Custom**

5 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

6 When you are satisfied with your setting, press the **ENTER/OK** (⏎) button.

7 Press the **EXIT** button to exit.

◆ **Contrast** − **Brightness** − **Sharpness** − **Colour** − **Tint** (NTSC only)
◆ **Contrast** − **Brightness** − **Colour** : PC Mode
   Press the ◀ or ▶ button until you reach the optimal setting.

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

◆ **Reset**: You can return to the factory defaults picture settings.
   ➢ The reset function is set for each picture mode and colour tone.

Selecting the Picture Size

TV	Size
Auto Wide	
16:9	
Wide 4:3	
Zoom	
4:3	

◆ Move ⏎ Enter ⭢ Return

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

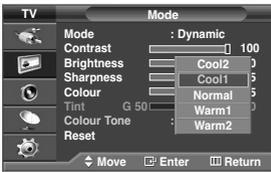**1** Press the **MENU** (▭) button to display the menu.

2 Press the ▲ or ▼ button to select **Picture**, then press the **ENTER/OK** (⏎) button.

3 Press the ▲ or ▼ button to select **Size**, then press the **ENTER/OK** (⏎) button.

4 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

  Available options: **Auto Wide**, **16:9**, **Wide 4:3**, **Zoom**, **4:3**
  ◆ **Auto Wide**: Expanding and pulling up the picture from **4:3** to **16:9** ratio.
  ◆ **16:9**: Sets the picture to **16:9** wide mode.
  ◆ **Wide 4:3**: 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/OK** (⏎) button.
  ◆ **Zoom**: Magnify the size of the picture vertically on screen.
  ◆ **4:3**: Sets the picture to **4:3** normal mode.

5 Press the **EXIT** button to exit.

  ➢ You can change the picture size simply by pressing the **P.SIZE** button on the remote control.
  ➢ If you change the picture size when PIP is On, PIP will automatically be turned Off.
  ➢ Depending on the input source, the picture size options may vary.
  ➢ The items available may differ depending on the selected mode.

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 / SMD / DNIe Demo

1 Press the **MENU** (▢) button to display the menu.

2 Press the ▲ or ▼ button to select **Picture**, then press the **ENTER/OK** (⏎) button.

3 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.
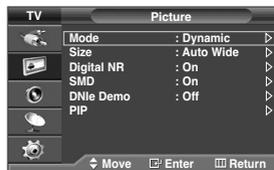
    Available options: **Digital NR**, **SMD**, **DNIe Demo**

4 When you are satisfied with your setting, press the **ENTER/OK** (⏎) button.

5 Press the **EXIT** button to exit.

◆ **Digital NR**: **On/Off**
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.

◆ **SMD(Smooth Motion Driver)**: **On/Off**
If you set SMD to On, you can view more natural skin and clear text even in fast moving scenes.
➢ SMD is not available in PC mode.

◆ **DNIe Demo**: **On/Off**
This TV includes the DNIe function so as to provide a high visual quality.
If you set DNIe Demo to On, you can view an applied DNIe and a normal picture on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.

    ➢ **DNIe™** (**D**igital **N**atural **I**mage **e**ngine) ▱DNIe⎸
    This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNIe™ technology will fit every signal into your eyes.

    ➢ DNIe Demo is not available in PC mode.

TV	Picture	
Mode	: Dynamic	▷
Size	: Auto Wide	▷
Digital NR	: On	▷
SMD	: On	▷
DNIe Demo	: Off	▷
PIP		▷
◆ Move	⏎ Enter	▢ Return

Viewing the Picture in Picture (PIP)

➢ Not available in DTV mode.

You can display a sub picture within the main picture. In this way you can watch TV program or monitor the video input from any connected devices.

1 Press the **MENU** (▢) button to display the menu.

2 Press the ▲ or ▼ button to select **Picture**, then press the **ENTER/OK** (⏎) button.

3 Press the ▲ or ▼ button to select **PIP**, then press the **ENTER/OK** (⏎) button.

4 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

    Available options: **PIP(On/Off)**, **Source**, **Position**, **Programme**

5 When you are satisfied with your setting, press the **ENTER/OK** (⏎) button.

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

TV	PIP	
PIP	: On	▷
Source	: AV	▶
Position	: ▣	▷
Programme	: P 1	
◆ Move	⏎ Enter	▢ Return
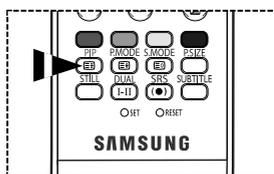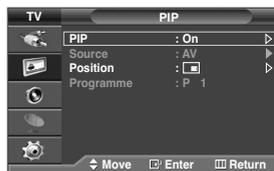
◆ **PIP**: **On/Off**
You can activate or deactivate the PIP function.
    ➢ You can select these options simply by pressing the **PIP** button on the remote control.

◆ **Source**: **TV/Ext.1/Ext.2/AV/S-Video**
You can select a source of the sub-picture.

◆ **Position**: ▣/▣/▣/▣
You can select a position of the sub-picture.

◆ **Programme**
You can select a channel of the sub-picture only when the **Source** is set to **TV**.

Table of PIP Settings   X - This PIP combination is not available.
                                     O - This PIP combination is available.

Main \ Sub	TV	AV	S-Video	Ext.1	Ext.2	PC
TV	X	X	X	X	X	X
AV	X	X	X	X	X	X
S-Video	X	X	X	X	X	X
Ext.1	X	X	X	X	X	X
Ext.2	X	X	X	X	X	X
Component	X	X	X	X	X	X
HDMI	O	O	O	O	O	X
PC	O	O	X	O	O	X

Sound Features

TV	Sound	
	Mode	**: Custom** ▷
	Equalizer	▷
	SRS TSXT	: Off ▷
	Auto Volume	: Off ▷
	Internal Mute	: Off ▷
	Reset	
	◆ Move ⏎ Enter ▥ Return	

< If Game Mode is On >

TV	Sound	
	Mode	: Custom ▷
	Equalizer	▷
	SRS TSXT	: Off ▷
	Auto Volume	: Off ▷
	Internal Mute	: Off ▷
	Reset	
	◆ Move ⏎ Enter ▥ Return	
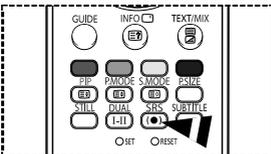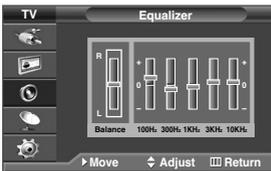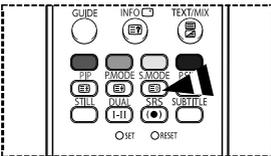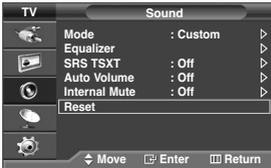
1   Press the **MENU** (▭) button to display the menu.

2   Press the ▲ or ▼ button to select `Sound`, then press the **ENTER/OK** (⏎) button.

3   Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

Available options: `Mode`, `Equalizer`, `SRS TSXT`, `Auto Volume`, `Internal Mute`, `Reset` (If Game Mode is On)

4   When you are satisfied with your setting, press the **ENTER/OK** (⏎) 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.

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

◆ `Equalizer`: `Balance/100Hz/300Hz/1KHz/3KHz/10KHz`
The television has several settings which allow you to control the sound quality.

➤   If you make any changes to these settings, the sound mode is automatically switched to `Custom`.

TV	Equalizer
	R
	L
	Balance 100Hz 300Hz 1KHz 3KHz 10KHz
	▷ Move ◆ Adjust ▥ Return

◆ `SRS TSXT`: `On/Off`
TruSurround XT is a patented SRS technology that solves the 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.

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

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

SRS(●)
TruSurround XT

◆ `Auto Volume`: `On/Off`
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.

◆ `Internal Mute`: `On/Off`
If you want to hear the sound through separate speakers, cancel the internal amplifier.

➤   The VOL +, VOL - and Mute buttons do not operate when the Internal Mute is set to On.
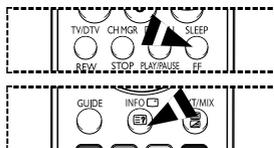
◆ `Reset`
If Game Mode is On, the Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer setting to the factory defaults.

Time Features

1 Press the **MENU** (▢) button to display the menu.

2 Press the ▲ or ▼ button to select `Setup`, then press the **ENTER/OK** (↵) button.

3 Press the ▲ or ▼ button to select `Time`, then press the **ENTER/OK** (↵) button.

4 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (↵) button.

Available options: `Clock Set`, `Sleep Timer`, `On Timer`, `Off Timer`

5 When you are satisfied with your setting, press the **ENTER/OK** (↵) button.

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

TV	Time	
	Clock Set	00 : 00 ▷
	Sleep Timer	: Off ▷
	On Timer	00 : 00 Off ▷
	Off Timer	00 : 00 Off ▷
	◆ Move ↵ Enter ▢ Return	

◆ `Clock Set`
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.

  – Press the ◄ or ► button to select `Hour` or `Minute`.
     Set these by pressing the ▲ or ▼ button.

  ➢ You can set the hour and minute directly by pressing the numeric buttons on the remote control.

  ➢ In the event of a power interruption or the set being turned off at the supply, the settings for the Clock will be lost.

◆ `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.

  ➢ You can select these options simply by pressing the **SLEEP** button on the remote control. If the sleep timer is not yet set, `Off` is displayed. If it is already set, the remaining time before which the television switches to standby mode is displayed.

◆ `On Timer / Off Timer`
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.
  – `On Timer`: Select `Hour`, `Minute`, `Programme`, or `Volume` by pressing the ◄ or ► button.
                    Set these by pressing the ▲ or ▼ button.
                    To activate `On Timer` with the setting satisfied, set `Activation` to `Yes` by ▲ or ▼ button.

      ➢ You can set the hour and minute directly by pressing the numeric buttons on the remote control.

  – `Off Timer`: Select `Hour` or `Minute` by pressing the ◄ or ► button.
                    To activate `Off Timer` with the setting satisfied, set `Activation` to `Yes` by ▲ or ▼ button.

      ➢ You can set the hour and minute directly by pressing the numeric 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.

Language / Blue Screen / Melody / Energy Saving

TV	Setup	
📡	Plug & Play	▷
	Language : English	▷
📺	Time	▷
	Game Mode : Off	▷
🕐	Blue Screen : Off	▷
	Melody : Off	▷
🔊	PC	▷
	▽ More	
⚙		
	♦ Move ⏎ Enter ▥ Return	

1 Press the **MENU** (▥) button to display the menu.

2 Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** (⏎) button.

3 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

   Available options: **Language**, **Blue Screen**, **Melody**, **Energy Saving**

4 When you are satisfied with your setting, press the **ENTER/OK** (⏎) button.

5 Press the **EXIT** button to exit.

◆ **Language**
   It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.

◆ **Blue Screen**: **On/Off**
   If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the **Blue Screen** to **Off**.

◆ **Melody**: **On/Off**
   You can hear melody sound when the television is powered on or off.

◆ **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.

Using Game Mode

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

TV	Setup	
📡	Plug & Play	▷
	Language : English	▷
📺	Time	▷
	Game Mode : Off	▷
🕐	Blue Screen : Off	▷
	Melody : Off	▷
🔊	PC	▷
	▽ More	
⚙		
	♦ Move ⏎ Enter ▥ Return	

1 Press the **MENU** (▥) button to display the menu.

2 Press the ▲ or ▼ button to select **Setup**, then press the **ENTER/OK** (⏎) button.

3 Press the ▲ or ▼ button to select **Game Mode**, then press the **ENTER/OK** (⏎) button.

4 Select **Off** or **On** by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

5 Press the **EXIT** button to exit.

➢ To disconnect the game console and connect another external device, cancel game mode in the setup menu.

➢ If you display the TV menu in Game mode, the screen shakes slightly.

➢ Game Mode is not available in TV mode.

➢ **If Game Mode is On :**
   ◆ Picture Mode is automatically changed to Custom and users cannot change the mode.
   ◆ Sound Mode is automatically changed to Custom and users cannot change the mode.
   ◆ The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer setting to the factory defaults.

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.

1   Press the **MENU** (▯▯▯) button to display the menu.

2   Press the ▲ or ▼ button to select `Setup`, then press the **ENTER/OK** (⏎) button.

3   Press the ▲ or ▼ button to select `Screen Burn Protection`, then press the **ENTER/OK** (⏎) button.

4   Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

   Available options: `Pixel Shift`, `All White`, `Signal Pattern`

5   When you are satisfied with your setting, press the **ENTER/OK** (⏎) button.

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

◆ `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.
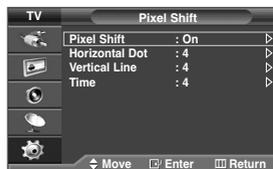
 – Set `Pixel Shift` to `On` by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.
 – Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

   Available options: `Horizontal Dot`, `Vertical Line`, `Time`

➤   Optimum condition for pixel shift;

Horizontal Dot	4
Vertical Line	4
Time (minute)	4

◆ `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.

◆ `Signal Pattern`: 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.

➤   To remove after images on the screen, use either "`All White`" or "`Signal Pattern`" function.
   Although both of the two functions remove after images on the screen, "`Signal Pattern`" 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.

Setting the Blue Eye

You can set the power of Blue LED to be on. If the power is off when Blue Eye is off, the Blue LED goes off after 5 seconds. This will save power and reduce eye fatigue.

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 `Blue Eye`, then press the **ENTER** (⏎) button.

4   Select `Off` or `On` by pressing the ▲ or ▼ button, then press the **ENTER** (⏎) button.

   ◆ `Off`: LED(Blue) will not come on.
   ◆ `On`: LED(Blue) will come on after you turn the TV off.

5   Press the **EXIT** button to exit.

English - 19

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:

Video Signal	Resolution (Dot X Line)	Vertical frequency (Hz)	Horizontal frequency (kHz)	Vertical polarity	Horizontal polarity	PS-42C7HD/ PS-42Q7HD	PS-50C7HD/ PS-50Q7HD
IBM PC / AT Compatible	640 x 350	70.086	31.469	N	P	✔	✔
	720 x 400	70.087	31.469	P	N	✔	✔
	640 x 480	59.940	31.469	N	N	✔	✔
		70.000	35.000	N/P	N/P	✔	✔
		72.809	37.861	N	N	✔	✔
		75.000	37.500	N	N	✔	✔
	800 x 600	56.250	35.156	N/P	N/P	✔	✔
		60.317	37.879	P	P	✔	✔
		70.000	43.750	N/P	N/P	✔	✔
		72.188	48.077	P	P	✔	✔
		75.000	46.875	P	P	✔	✔
	848 x 480	60.000	31.020	P	P	✔	
		74.769	37.684	P	N	✔	
	1024 x 768	60.004	48.363	N	N	✔	✔
		70.069	56.476	N	N	✔	✔
		72.000	57.672	N/P	N/P	✔	✔
		75.029	60.023	P	P	✔	✔
	1280 x 720	59.855	44.772	N	P		✔
	1360 x 768	60.015	47.712	P	P		✔

(N: Negative / P: Positive)

◆   The interlace mode is not supported.
◆   The television might operate abnormally if a non-standard video format is selected.
◆   480i/p, 576i/p, 720p, or 1080i is not available in PC mode.
◆   The PC text quality is optimum in **XGA** mode (1024 x 768@60Hz).(PS-42C7HD/PS-42Q7HD)
◆   The PC text quality is optimum in **WXGA** mode (1360 x 768@60Hz). (PS-50C7HD/PS-50Q7HD)

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 `Setup`, then press the **ENTER/OK** (⏎) button.

3 Press the ▲ or ▼ button to select `PC`, then press the **ENTER/OK** (⏎) button.

4 Select the required option by pressing the ▲ or ▼ button, then press the **ENTER/OK** (⏎) button.

Available options: `Image Lock`, `Position`, `Auto Adjustment`, `Image Reset`

5 When you are satisfied with your setting, press the **ENTER/OK** (⏎) button.

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

◆ **`Image Lock`: `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/OK** (⏎) button.

    2 Press the ◄ or ► button to adjust the screen quality, vertical stripes may appear or the picture may be blurry. Press the **ENTER/OK** (⏎) 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/OK** (⏎) button.

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

◆ **`Image Reset`**:
You can replace all image settings with the factory default values.

TV	PC	
	Image Lock	▷
	Position	▷
	Auto Adjustment	▷
	Image Reset	▷
	♦ Move ⏎ Enter ▥ Return	

TV	Image Lock	
	Coarse	50
	Fine	0
	♦ Move ⏎ Enter ▥ Return	

TV	Position	
	⬆ ⬅ ➡ ⬇	
	✛ Move ⏎ Enter ▥ Return	
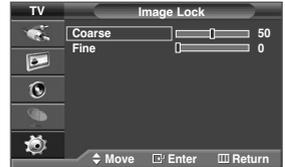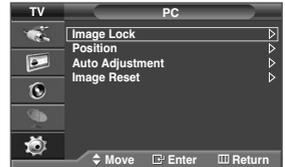
**Auto Adjustment in progress
Please wait**

Image Reset has completed.
Return

Previewing the DTV Menu System (depending on the model)
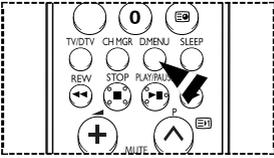
➢ Available in DTV mode.
  Preset to the DTV mode by using the **TV/DTV** button on your remote control.

To help you navigate around the on-screen menu system and adjust the various settings available, refer to the following illustration.

— Press the **D.MENU** button on your remote control.

→ `Guide`
  → `Now & Next Guide`
  → `Full Guide`
  → `Scheduled List`
  → `Default Guide` ——→ `Now/Next`
                      └——→ `Full Guide`

→ `Preference`
  → `Preferred Subtitle Language` ——→ `English`
                                    → `Welsh`
                                    → `Gaelic`
                                    → `Irish`

  → `Preferred Audio Language` ——→ `English`
                                → `Welsh`
                                → `Gaelic`
                                → `Irish`

  → `OSD Language` ——→ `English`
                    → `Deutsch`
                    → `Français`
                    → `Italiano`
                    → `Svenska`

  → `Translucency Level` ——→ `High`
                          → `Medium`
                          → `Low`
                          → `Opaque`

  → `Parental Lock` ——→ `Parental Rating`
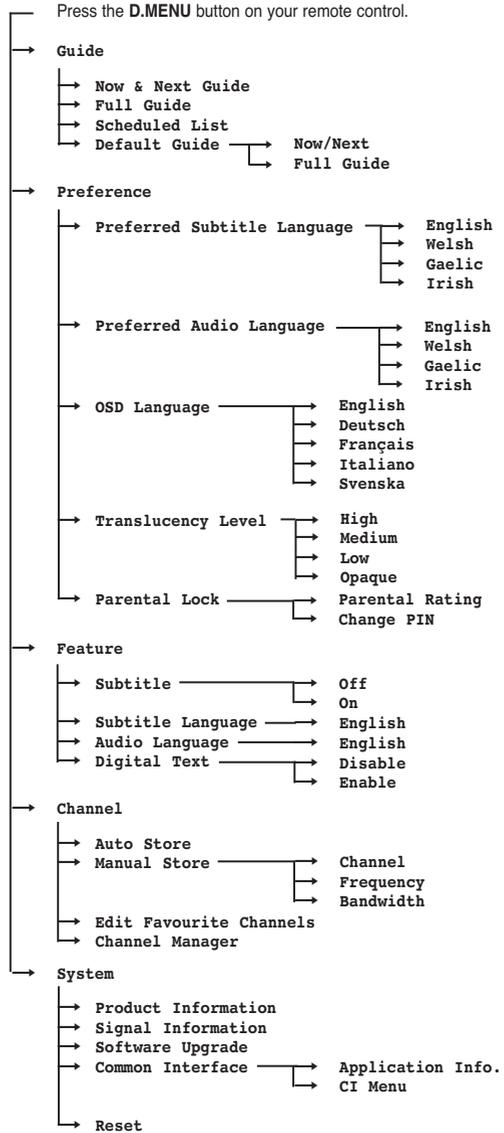   └——→ `Change PIN`

→ `Feature`
  → `Subtitle` ——→ `Off`
               └——→ `On`
  → `Subtitle Language` ——→ `English`
  → `Audio Language` ——→ `English`
  → `Digital Text` ——→ `Disable`
                     └——→ `Enable`

→ `Channel`
  → `Auto Store`
  → `Manual Store` ——→ `Channel`
                    → `Frequency`
                    → `Bandwidth`
  → `Edit Favourite Channels`
  → `Channel Manager`

→ `System`
  → `Product Information`
  → `Signal Information`
  → `Software Upgrade`
  → `Common Interface` ——→ `Application Info.`
                        └——→ `CI Menu`
  → `Reset`

➢ The sub-items of the CI Menu may vary depending on the CAM model.
  (refer to page 34)

Updating the Channel Manager Automatically

You can update the channel manager when the broadcaster adds new Services or if you move the TV to a new location.

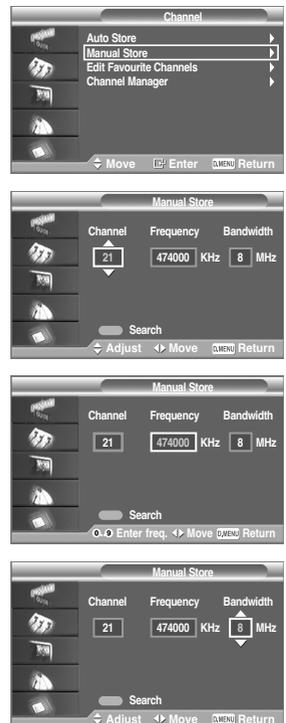**1** Press the **D.MENU** button.
   Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select `Channel`.
   Result: The `Channel` menu is displayed.

3 Press the **ENTER/OK** ( ) button.
   Result: The `Auto Store` is displayed.

4 Press the **ENTER/OK** ( ) button again to start the search.
   Result: When it has finished, the number of scanned services will be displayed.
   ◆ The existing favourite channel manager will not be deleted when the channel list is updated.
   ◆ To stop the scan before it has finished, press the **ENTER/OK** ( ) button with `Stop` selected.

5 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➢ If the signal status is poor, "`No service found! Check the aerial connection.`" message is displayed.

Channel
Auto Store ▶
Manual Store ▶
Edit Favourite Channels ▶
Channel Manager ▶
◆ Move ⏎ Enter Return

Auto Store
Scanning for digital services...
35%
Services found : 24   Channel : 38
Stop
Return

Auto Store
Scanning for digital services...
100%
Services found : 30   Channel : 68
Update Channel List...
Return

Updating the Channel Manager Manually

You can specify the channel or frequency for a fast channel search.

1 Press the **D.MENU** button.
   Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select `Channel`.
   Result: The `Channel` menu is displayed.

3 Press the **ENTER/OK** ( ) button.

4 Press the ▲ or ▼ button to select `Manual Store`.
   Press the **ENTER/OK** ( ) button.
   Result: The `Manual Store` is displayed.

5 Press the ◄ or ► button to select `Channel`, `Frequency`, or `Bandwidth`.

   ◆ `Channel`
      Press the ▲, ▼ or numeric buttons (0~9) to select a channel.
      The available channels are 21~68.
      Result: 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.

6 Press the red button to start the scan for digital services.
   Result: When it has finished, channels are updated in the channel manager.

7 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Channel
Auto Store ▶
Manual Store ▶
Edit Favourite Channels ▶
Channel Manager ▶
◆ Move ⏎ Enter Return

Manual Store		
Channel	Frequency	Bandwidth
21	474000 KHz	8 MHz
Search		
◆ Adjust ◄► Move Return		

Manual Store		
Channel	Frequency	Bandwidth
21	474000 KHz	8 MHz
Search		
0~9 Enter freq. ◄► Move Return		

Manual Store		
Channel	Frequency	Bandwidth
21	474000 KHz	8 MHz
Search		
◆ Adjust ◄► Move Return		

Editing Your Favourite Channels

	Channel	
	Auto Store	►
	Manual Store	►
	Edit Favourite Channels	►
	Channel Manager	►

◆ Move   Enter   D.MENU Return

	Edit Favourite Channels
	(no channels)

Add Channels
D.MENU Return

	Edit Favourite Channels
	▲
2	BBC TWO
5	Five
7	BBC THREE
15	abc1
16	QVC
	▼

Select All   Select None   Preview
◆ Move   Select   D.MENU Return

	Edit Favourite Channels	
	▲	
2	BBC TWO	★
5	Five	
7	BBC THREE	
15	abc1	
16	QVC	
	▼	

Select All   Select None   Preview
◆ Move   Select   D.MENU Return

➢ In the case of DTV mode, **OK** or **Select** can be used as the **ENTER/OK** (⊡) button.

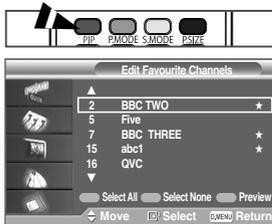**You can edit your favourite channels using the colour buttons.**

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.
Result: The **Channel** menu is displayed.

3 Press the **ENTER/OK** (⊡) button.

4 Press the ▲ or ▼ button to select **Edit Favourite Channels**.

5 Press the **ENTER/OK** (⊡) button.
Result: The **Edit Favourite Channels** menu is displayed.

6 Press the red button to display all currently stored channels.

7 Press the ▲ or ▼ button to select a channel you want.
Press the **ENTER/OK** (⊡) button.
Result: A ★ icon is shown next to the selected channel and the channel will be added to the favourites list.

➢ ◆ To undo, press the **ENTER/OK** (⊡) button again.
   ◆ **Select All** : Select all channels currently displayed.
   ◆ **Select None** : Deselect all selected channels.
   ◆ **Preview** : Displays (a) currently selected channel(s).
➢ The Favourite Channels settings have been completed.

8 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

	Channel	
	Auto Store	►
	Manual Store	►
	Edit Favourite Channels	►
	Channel Manager	►

◆ Move   Enter   D.MENU Return

	Edit Favourite Channels	
2	BBC TWO	★
7	BBC THREE	★
15	abc1	★

Add   Move   Preview   Delete
◆ Move   D.MENU Return

◆ **Add**
You can use this function when one or more favourite channels have been selected.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.
Result: The **Channel** menu is displayed.

3 Press the **ENTER/OK** (⊡) button.

4 Press the ▲ or ▼ button to select **Edit Favourite Channels**.

5 Press the **ENTER/OK** (⊡) button.

Editing Your Favourite Channels

6 Press the red button in the `Edit Favourite Channels` menu.
To add more channels, refer to the step **7** on the previous page.

➢ ◆ To add all channels to the favourites channel manager,
     press the red button.
   ◆ To remove all channels, press the green button.
   ◆ `Preview` : Displays (a) currently selected channel(s).
   ◆ Press the **CH MGR** button to display the favourite channel manager.

7 Press the **D.MENU** button to return to the previous menu or press the
EXIT button to return to normal viewing.

◆ **Move**

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select `Channel`.
Result: The `Channel` menu is displayed.

3 Press the **ENTER/OK** (⊡) button.

4 Press the ▲ or ▼ button to select `Edit Favourite Channels`.

5 Press the **ENTER/OK** (⊡) button.

6 Press the ▲ or ▼ button to select the required channel.

7 Press the green button.
Result: A ♦ icon is displayed on the left side of the channel name.

8 Press the ▲ or ▼ button to select the channel that you want to move,
then press the green or **ENTER/OK** (⊡) button.
Result: The channel is moved to its new position.

9 Press the **D.MENU** button to return to the previous menu or press the
EXIT button to return to normal viewing.

◆ **Preview**

1 In the `Edit Favourite Channels` menu, select the channel to be
previewed by pressing the ▲ or ▼ button.

2 Press the yellow button.
Result: Displays currently selected channel.

3 Press the **D.MENU** button to return to the previous menu or press the
EXIT button to return to normal viewing.

◆ **Delete**

1 In the `Edit Favourite Channels` menu, select the channel to be
deleted from the favourite channels list by pressing the ▲ or ▼ button.

2 Press the blue button.
Result: The selected channel and number will be deleted.
➢ To add a deleted channel back in to the favourite channel manager,
   see **Add** on page 24.

3 Press the **D.MENU** button to return to the previous menu or press the
**EXIT** button to return to normal viewing.

Viewing Channel Manager

Channel	
Auto Store	▶
Manual Store	▶
Edit Favourite Channels	▶
Channel Manager	▶

♦ Move ⏎ Enter D.MENU Return

Channel Manager		
BBC TWO		All Channels
1. Test Card 'M'...	40. BBC NEWS24	806 arte
2. BBC TWO	51. BBCi	
3. Vida003b	800 ARD-MHP-DATA	
4. Vida004b	801 ARD-OnLine-K..	
5. Vida005b	802 BBC ONE	
6. Vida006b	803 MDR FERNSE..	
7. BBC THREE	804 NDR FERNSEH..	
30. CBBC Channel	805 Vida002b	

Previous Page ◄◄ Next Page ►► Favourites Exit
♦ Move ⏎ Watch CH.MGR Exit

You can display a list of all channels or your favourite channels.

1 Press the **D.MENU** button.
  Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.
  Result: The **Channel** menu is displayed.

3 Press the **ENTER/OK** (⏎) button.

4 Press the ▲ or ▼ button to select **Channel Manager**.
  Press the **ENTER/OK** (⏎) button.
  Result: The channel manager is displayed.

  ➢ It can be displayed simply by pressing the **CH MGR** button.

5 Press the yellow button to toggle between your favourite channels and all channels.
  Result: Your favourite channels are only displayed if they were previously set in the **Edit Favourite Channels** menu (refer to page 24~25).

6 Press the red or green button to display the previous or next channel manager page.

7 Press the ▲ or ▼ button to select a channel to be tuned.
  Press the **ENTER/OK** (⏎) button.
  Result: The channel number, name and an icon are displayed in the top left corner while changing the channel. The channel number and name are displayed if the channel is one of the all channels, and a ★ icon if the channel is one of the favourite channels.

8 Press the blue or **CH MGR** button to exit from the channel manager.

Displaying Programme Information
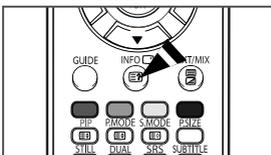
While viewing a channel, additional information about the current programme may be displayed.

1 While viewing a programme, press the **INFO** (⬚⁺) button.
  Result: The programme information is displayed.

  ➢ The information is displayed:
    - Parental Rating
    - Video Type: SD, HD, Radio
    - Audio Type: MPEG, Dolby-AC3
    - Existence of Teletext or DVB Subtitle
    - Audio Language

2 To exit from banner information, press the **INFO** (⬚⁺) button.

	21:49 Sat 1 May
1 AFDO, 16:9	All Channels Ⓐ
AFDO, 16:9	14:20 - 14:33
No Block	
SD	Contains video with AFD O; coded frame is 16:9
Stereo	
Subtitle	
English	
INFO Exit	

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.

◆ **Now & Next Guide**
   For the six channels indicated in the left-hand column, displays the Current programme and the Next programme information.

◆ **Full Guide**
   Displays the programme information as time ordered One hour segments. Two hours of programme information is displayed which may be scrolled forwards or backwards in time.
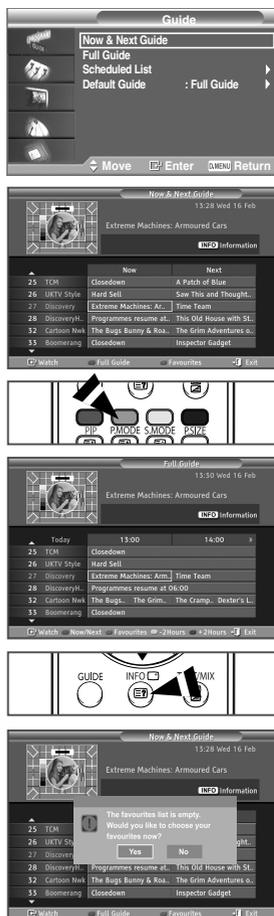
1 Press the **D.MENU** button.
   Result: The DTV menu is displayed.

2 Press the **ENTER/OK** (⏎) button to select `Guide`.

3 Press the ▲ or ▼ button to select `Now & Next Guide` or `Full Guide`.
   Press the **ENTER/OK** (⏎) button.
   Result: The selected guide menu is displayed.

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

4	To	Then

Watch a programme in the EPG list
◆ Select a programme by pressing the ▲/▼/◀/▶ button.
◆ Press the **ENTER/OK** (⏎) button.

➢ If the next program is selected, it is scheduled with the clock icon displayed. If the **ENTER/OK** (⏎) button is pressed again, the scheduling is canceled with the clock icon gone.
   For details about scheduling programmes, refer to the next page.

View programme information
◆ Select a programme of your choice by pressing the ▲/▼/◀/▶ button.
◆ Press the **INFO** (⊡) button when the programme of your choice is highlighted.

Toggle between the `Now & Next Guide` or `Full Guide`
◆ Press the red button repeatedly.

Display the `Favourites` and the `All Channels` list
◆ Press the green button repeatedly.

Scrolls backwards quickly (2 hours).
◆ Press the yellow button repeatedly.

Scrolls forward quickly (2 hours).
◆ Press the blue button repeatedly.

Exit the guide
◆ Press the Exit button.

➢ ◆ Information such as the channel number, programme title and running time, status bar, and brief summary of the highlighted programme will be displayed in the top right corner of the screen. If there is a lengthy summary, "…" will be displayed.
   Press the **INFO** (⊡) button for the full summary text.

   ◆ Six channels are displayed. To scroll between channels, move to a channel using the ▲ or ▼ button. To display page by page, use the **P** ⌃ or ⌄ button.

Using the Scheduled List

If you make a scheduled viewing list of programs you may like to see, the channel will be automatically switched to
the scheduled program at the scheduled time even if you are watching another program.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the **ENTER/OK** (⊡) button to select **Guide**.

3 Select the **Scheduled List** by pressing the ▲ or ▼ button.
Press the **ENTER/OK** (⊡) button.
Result: The selected guide menu is displayed.

4 Press the red button to add a new programme.
Result: The menu for adding a programme is displayed with **Channel** selected.

5 Press the ▲ or ▼ button to select the required channel.
Press the **ENTER/OK** (⊡) button.
Result: The **Time** is selected.

6 Enter the start and stop time of the programme by pressing the numeric button. You also can use ▲ or ▼ button to select time.
Press the **ENTER/OK** (⊡) button.
Result: The **Date** is selected automatically, even if any button is not pressed.

7 Press the ▲ or ▼ button to select the required date.
Press the **ENTER/OK** (⊡) button.
Result: The **Frequency** is selected.

8 Press the ▲ or ▼ button to select the required frequency (**Once**, **Daily**, or **Weekly**).

9 When you are satisfied with your settings, save the adjusted schedule by pressing the red button.
Result: The scheduled list is displayed again.

10 If you want to edit the scheduled programme, select a programme by pressing the ▲ or ▼ button. Press the green button.
If necessary, select the programme to be deleted by pressing the ▲ or ▼ button. Press the blue button.

11 Repeat step **4** to **9** for other programme to be added to the scheduled list.

➤ When watching analog TV, the reserved DTV channel cannot be changed. The channel is only changed automatically to the reserved channel when you are watching DTV.

➤ The more simple and easy way for scheduling programmes, refer to the step 4 on page 27.

➤ Scheduling programme only functions with the television already turned on, and not from standby mode.
For details about switching the television on and off automatically, refer to page 17.
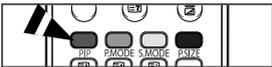
Setting the Default Guide

You can preset the default guide style.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the **ENTER/OK** (⏎) button to select **Guide**.

3 Press the ▲ or ▼ button to select **Default Guide**.
Press the **ENTER/OK** (⏎) button.

4 Select the required option **(Now & Next Guide** or **Full Guide)** by pressing
the ▲ or ▼ button. Press the **ENTER/OK** (⏎) button.
Result: The selected option for Default Guide is displayed on the EPG menu
and the channel list appears.

5 Press the **D.MENU** button to return to the previous menu or press the **EXIT**
button to return to normal viewing.
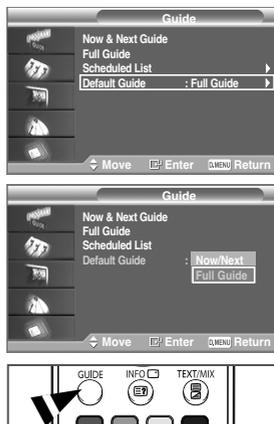
Viewing All Channels and Favourite Channels

In the EPG menu, you can display all channels or favourite channels.

1 Press the **D.MENU** button.
Result: The **Guide** menu is displayed.

2 Press the **ENTER/OK** (⏎) button to select **Guide**.

3 Press the ▲ or ▼ button to select **Now & Next Guide** or **Full Guide**.
Press the **ENTER/OK** (⏎) button.
Result: The selected guide menu is displayed.

4 Press the green button repeatedly to toggle between the all and favourite
channels list.

5 Select a programme of your choice by pressing the ▲/▼/◄/► button.

6 Press the **INFO** (⊡) button to display information about the highlighted
programme.
Result: The available programme information is displayed.

7 **When the favourite channel manager has not been set up:**
   ◆ **The favourites list is empty. Would you like to choose
   your favourites now?** message is displayed.

   ◆ Select **Yes**.
   Result: The **Edit Favourite Channels** menu is displayed. If you
   select **No**, all channels will remain unchanged.

   ◆ To edit the favourite channels, refer to page 24~25 for more details.

8 Press the **D.MENU** button to return to the previous menu or press the **EXIT**
button to return to normal viewing.

➢ ◆ **All Channels** is the list of channels that have been scanned by the
   channel manager update. All channels are displayed in the all channel
   mode.

   ◆ **Favourites** (favourite channels) is the list of channels that has been
   set in the **Edit Favourite Channels** menu (refer to page 24~25).

   ◆ When there is no channel information, the **No Data** message will be
   displayed and you will not be able to change the channel even if you
   press the **ENTER/OK** (⏎) button.
   When the **No Data** message appears and you cannot change the
   channel, press the channel number directly using the numeric buttons.

Setting the Preferred Languages
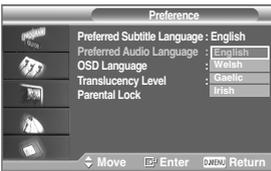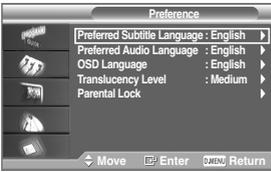
Using this feature, users can select one of the four languages (English, Welsh, Gaelic, Irish). The language selected here is the default when the user selects a channel.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **Preference.**
Result: The **Preference** menu is displayed.

3 Press the **ENTER/OK** (⊡) button.

4 Select your required menu by pressing the ▲ or ▼ button.

◆ **Preferred Subtitle Language**
◆ **Preferred Audio Language**

5 Press the **ENTER/OK** (⊡) button.
Result: The options of the selected menu are displayed.

6 Select the required option by pressing the ▲ or ▼ button, and press the **ENTER/OK** (⊡) button to change the setting.

◆ **Preferred Subtitle Language : English, Welsh, Gaelic, Irish**
◆ **Preferred Audio Language : English, Welsh, Gaelic, Irish**

➤ ◆ If you change the language setting, the **Subtitle Language** and the **Audio Language** of the features menu (refer to page 32) are automatically changed to the selected language.

◆ The **Subtitle Language** and the **Audio Language** of the features 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 **Preferred Subtitle Language** or the **Preferred Audio Language** of the preference menu.

7 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Preference
Preferred Subtitle Language : English
Preferred Audio Language : English
OSD Language : English
Translucency Level : Medium
Parental Lock
◇ Move ⊡ Enter D.MENU Return

Preference
Preferred Subtitle Language : English
Preferred Audio Language : Welsh
OSD Language : Gaelic
Translucency Level : Irish
Parental Lock : Medium
◇ Move ⊡ Enter D.MENU Return

Preference
Preferred Subtitle Language : English
Preferred Audio Language : English
OSD Language : Welsh
Translucency Level : Gaelic
Parental Lock : Irish
◇ Move ⊡ Enter D.MENU Return

Choosing Your Language

When you start using your DTV for the first time, you must select the language which will be used for displaying menus and indications.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **Preference.**
Result: The **Preference** menu is displayed.

3 Press the **ENTER/OK** (⊡) button.

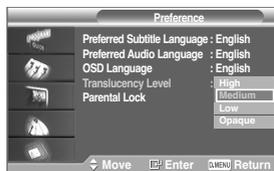**4** Press the ▲ or ▼ button to select **OSD Language**.
Press the **ENTER/OK** (⊡) button.

5 Select a particular language by pressing the ▲ or ▼ button repeatedly.
Press the **ENTER/OK** (⊡) button to change the setting.

6 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.
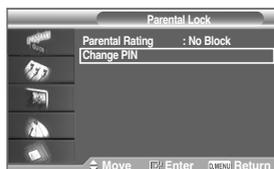

Preference
Preferred Subtitle Language : English
Preferred Audio Language : English
OSD Language : English
Translucency Level : Medium
Parental Lock
◇ Move ⊡ Enter D.MENU Return

Preference
Preferred Subtitle Language : English
Preferred Audio Language : English
OSD Language : English
Translucency Level : Deutsch
Parental Lock : Français
Italiano
Svenska
◇ Move ⊡ Enter D.MENU Return

Adjusting the Translucency Level

You can set the translucency of the on-screen menu.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **Preference.**
Result: The **Preference** menu is displayed.

3 Press the **ENTER/OK** ( ) button.

4 Press the ▲ or ▼ button to select **Translucency Level**.
Press the **ENTER/OK** ( ) button.

5 Select the required option(**High, Medium, Low,** or **Opaque**) by pressing the ▲ or ▼ button. Press the **ENTER/OK** ( ) button to change the setting.

6 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

	Preference
	Preferred Subtitle Language : English
	Preferred Audio Language : English
	OSD Language : English
	Translucency Level : **High**
	Parental Lock Medium / Low / Opaque

Move   Enter   Return

Setting up the 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).

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **Preference.**
Result: The **Preference** menu is displayed.

3 Press the **ENTER/OK** ( ) button.

4 Press the ▲ or ▼ button to select **Parental Lock**.
Press the **ENTER/OK** ( ) button.
Result: The **Enter PIN** is displayed.

5 Enter your current 4-digit PIN code by using the numeric buttons (0~9).
Result: The **Parental Lock** menu are displayed with the **Parental Rating** selected.

➤ ◆ The default PIN code for a new TV set is **0000**.
   ◆ If you enter an invalid PIN code,the **Invalid PIN code. Please try again.** message is displayed.

6 Press the **ENTER/OK** ( ) button.

7 Press the ▲ or ▼ button to select the age rating you want to lock out.
Press the **ENTER/OK** ( ) button.

8 If you want to change the PIN code,select **Change PIN** by pressing the ▲ or ▼ button. Press the **ENTER/OK** ( ) button.
Result: The **Enter New PIN** is displayed.

9 Enter your new PIN code by using the numeric buttons (0~9).
Result: The **Confirm New PIN** is displayed.

10 Re-enter your new PIN code to confirm by using the numeric buttons (0~9).
Result: The **Your PIN code has been changed successfully** message is displayed.

11 Press the **ENTER/OK** ( ) button.

12 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➤ 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
	Enter PIN
	☐ ☐ ☐ ☐

0~9 Enter PIN   Return

	Parental Lock
	Parental Rating : No Block
	Change PIN 3 / 4 / 5 / 6 / 7

Move   Enter   Return

	Parental Lock
	Parental Rating : No Block
	Change PIN

Move   Enter   Return

	Change PIN
	Enter New PIN
	☐ ☐ ☐ ☐

0~9 Enter PIN   Return

|	Change PIN
	Confirm New PIN
	Your PIN code has been changed successfully.
	OK

0~9 Enter PIN   Return

Using the Preferred Features

You can use various settings to suit your personal preferences.

◆ **Activating/deactivating the subtitle**
◆ **Changing the default value for subtitle and audio languages**
◆ **Activating/deactivating the digital text**

1 Press the **D.MENU** button.
<u>Result</u>: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **Feature**.
<u>Result</u>: The **Feature** menu is displayed.

3 Press the **ENTER/OK** ( ) button.

4 Select your required menu by pressing the ▲ or ▼ button.
◆ **Subtitle**
◆ **Subtitle Language**
◆ **Audio Language**
◆ **Digital Text**

5 Press the **ENTER/OK** ( ) button.
<u>Result</u>: The options of the selected menu are displayed.

6 Select the required option by pressing the ▲ or ▼ button, and press the **ENTER/OK** ( ) button to change the setting.
◆ **Subtitle : On** or **Off**
◆ **Subtitle Language**
◆ **Audio Language**
◆ **Digital Text : Disable** or **Enable**

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

7 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

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

➢ You can select these options simply by pressing the **SUBTITLE** button on the remote control.

Checking the Product Information
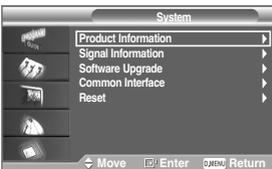
You can view your product information. For service or repair, please contact a Samsung approved dealer.

1 Press the **D.MENU** button.
<u>Result</u>: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **System.**
<u>Result</u>: The **System** menu is displayed.

3 Press the **ENTER/OK** ( ) button.
<u>Result</u>: The **Product Information** is selected.

4 Press the **ENTER/OK** ( ) button again.
<u>Result</u>: The product information menu is displayed.

– **Software Version**
– **Firmware Version**
– **Hardware Version**

5 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Checking the Signal Information

You can get information about the signal status.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **System.**
Result: The **System** menu is displayed.

3 Press the **ENTER/OK** (⏎) button.

4 Press the ▲ or ▼ button to select **Signal Information**.
Press the **ENTER/OK** (⏎) button.
Result: The technical information for signal status is displayed.

> – **Service**
> – **Service ID**
> – **Multiplex**
> – **Network**
> – **Bit Error Level**
> – **Signal Strength**

5 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.
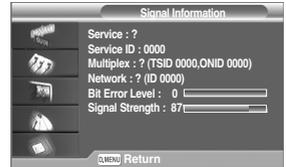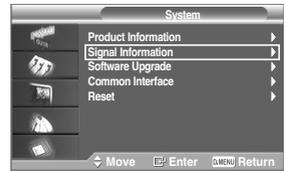
Upgrading the Software (Option)

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

◆ **Upgrade Now**
If you select **Upgrade Now**, the **iDTV** immediately installs the new upgrade and then restarts.

◆ **Upgrade Later**
If you select **Upgrade Later**, the upgrade is postponed until the next restart or channel change some 90 minutes later, when the upgrade dialog appears again.

◆ **Don't Upgrade**
If you select **Don't Upgrade**, the **iDTV** does not perform the upgrade and the software upgrade banner is not displayed again. The upgrade is still stored internally, to subsequently upgrade to the new version then the following sequence of steps are performed.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **System.**
Result: The **System** menu is displayed.

3 Press the **ENTER/OK** (⏎) button.

4 Press the ▲ or ▼ button to select **Software Upgrade**.
Press the **ENTER/OK** (⏎) button.
Result: The information for **Software Upgrade** is displayed.

5 If necessary, press the **ENTER/OK** (⏎) button again to display the software version information.

6 Press the **D.MENU** button to return to the **Software Upgrade** menu.

7 To switch to an alternative version, press the red button.
Press the blue button to reset, activate the upgrade and restart.

8 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.
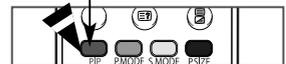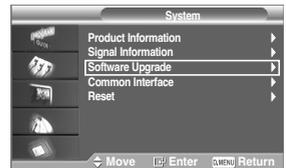
Viewing Common Interface

This contains information on CAM inserted in the CI slot and displays it.

1 Press the **D.MENU** button.
   Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **System.**
   Result: The **System** menu is displayed.

3 Press the **ENTER/OK** (⏎) button.

4 Press the ▲ or ▼ button to select **Common Interface**.
   Press the **ENTER/OK** (⏎) button.
   Result: The **Application Info.** is selected.

5 Press the **ENTER/OK** (⏎) button to display the information for your application.

6 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Selecting the CI (Common Interface) Menu

This helps the user select an item from the CAM-supported menu.

1 Press the **D.MENU** button.
   Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **System.**
   Result: The **System** menu is displayed.

3 Press the **ENTER/OK** (⏎) button.

4 Press the ▲ or ▼ button to select **Common Interface**.
   Press the **ENTER/OK** (⏎) button.
   Result: The technical information for signal status is displayed.

5 Press the ▲ or ▼ button to select **CI Menu**.
   Press the **ENTER/OK** (⏎) button.
   Result: The options of the selected menu are displayed.

6 Select the required option by pressing the ▲ or ▼ button.
   Press the **ENTER/OK** (⏎) button.

7 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➢ Select the CI Menu based on the menu PC Card.

➢ In the case of DTV mode, **OK** or **Select** can be used as the **ENTER/OK** (⏎) button.

Resetting

You can reset the values stored to the factory default values.

➢ The Reset operation deletes all channel information and user preferences returning all values to their default factory state.

1 Press the **D.MENU** button.
Result: The DTV menu is displayed.

2 Press the ▲ or ▼ button to select **System.**
Result: The **System** menu is displayed.

3 Press the **ENTER/OK** (↵) button.

4 Press the ▲ or ▼ button to select **Reset**.
Press the **ENTER/OK** (↵) button.
Result: The **Enter PIN** is displayed.

5 Enter your current 4-digit PIN code by using the numeric buttons (0~9).
Result: The warning message is displayed. All values will be reset by pressing the coloured buttons (red, green, yellow, and blue) in turn.

6 Press the **D.MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➢ The default PIN of a new TV set is "0-0-0-0".

➢ When PIN is changed in Parental Lock, the PIN for resetting automatically changes.

System
Product Information ▶
Signal Information ▶
Software Upgrade ▶
Common Interface ▶
Reset ▶
◆ Move Enter D.MENU Return

Reset
Enter New PIN
☐ ☐ ☐ ☐
0~9 Enter PIN D.MENU Return

Reset
WARNING: All channel settings and user perferences will be lost and returned to the factory defaults. It is recommended that a reset is performed only when serious problems are experienced.
● ● ● ●
D.MENU Return

Freezing the Current Picture

You can freeze the picture when watching a television programme simply by pressing the "**STILL**" button. To return to normal viewing, press it again.

➢ This function will automatically cancel five minutes later.
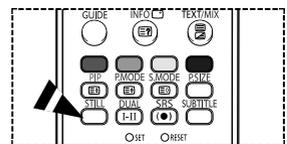
Teletext Feature (depending on the model)

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 📄 (teletext on/mix)

Press once : Displaying Screen in the teletext mode
Press twice : Displaying the split Screen
Press three times : Displying the overlapped Screen

② 📄 (sub-page)
Used to display the available sub-page.

③ 📄 (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.

④ 📄 (store)
Used to store the teletext pages.

⑤ 📄 (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.

⑥ 📄 (page up)
Used to display the next teletext page.

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 📄 (page down)
Used to display the previous teletext page.

⑨ 📄 (index)
Used to display the index (contents) page at any time while you are viewing teletext.

⑩ 📄 (reveal)
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

⑪ 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 colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way.
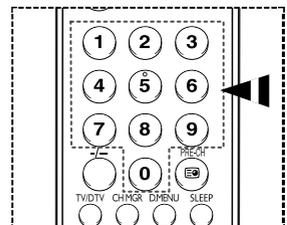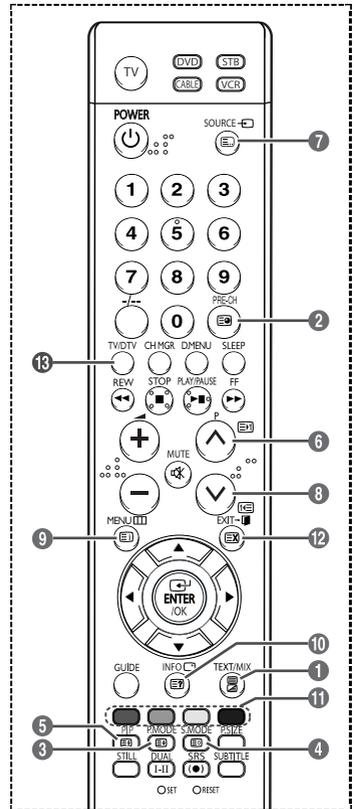To display the previous or next page, press the corresponding coloured button.

⑫ 📄 (cancel)
Used to display the broadcast when searching for a page.

⑬ TV/DTV (exit)
Exit from the teletext display (depending on the model)

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

Teletext Feature (depending on the model)

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.
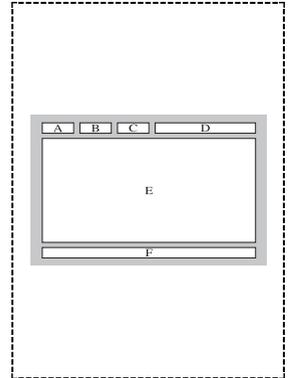
How to Install the Wall Mount Bracket

➢ This installation guide may be different from the PDP User's manual.
   Please refer to the proper installation guide for your product.

Installation Notes
   ◆ Contact a technician for installing the wall bracket.
   ◆ Samsung Electronics is not responsible for any damages to the product or harm to customers when the installation is done by the customer.
   ◆ This product is for installing on cement walls. The product may not stay in place when installed on plaster or wood.
   ◆ The package contents and parts supplied for the wall mount are subject to change without prior notice.

Mounting Kits
   ◆ Please use only the parts and components provided for wall mount installation.

Wall Mount Bracket	ASSY-HINGE	Screws
1EA	**LEFT :1EA RIGHT :1EA**	**Plastic Hanger : 4 EA** **SCREW : 4 EA**
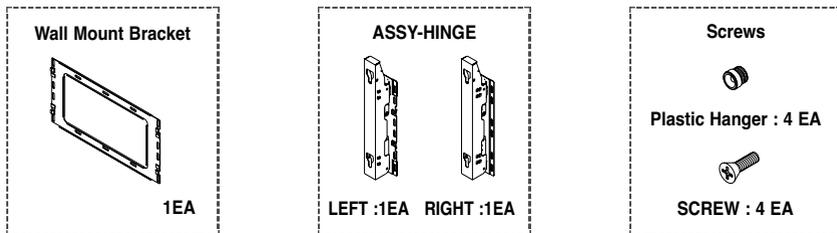
How to assemble the Wall Mount Bracket

1 The wall mount bracket is delivered separately. Please tighten the captive screw in the direction of the arrow after assembling the bracket. Install the Wall Mount Bracket after the screws are securely inserted into the wall.

Captive Screws

ASSY-HINGE (LEFT)

Wall Mount Bracket

Separate ASSY-HINGE into Left and Right.

ASSY-HINGE (RIGHT)
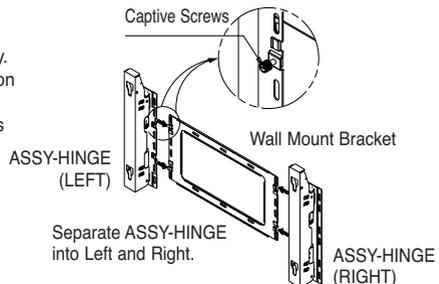
How to Install the Wall Mount Bracket

Instructions on Securing the SET to the Wall Mount Bracket

➢ The exterior of the SET may be different than the picture. (Assembly and installation of the plastic hanger is the same.)

**1** Remove the screws from the back of the PDP.
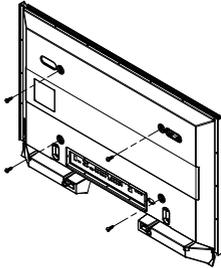
2 Use the screw and assemble the plastic hanger. (Please refer to the following picture.)

☞ **1** Please ask the installers to install the wall mount bracket.
2 Please be sure to check if the plastic hanger is completely secured on both the left and right side after hanging the SET on the wall mount bracket.
3 Please avoid catching your fingers while installing and adjusting the angle.
4 Please tightly secure the wall mount bracket to the wall to avoid injury from a falling SET.

**3** Tighten the screws of the plastic hanger (shown in picture 2) to the back side of the PDP.
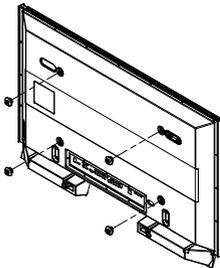
4 Remove the Safety Pins. Fasten the 4 plastic latches assembled at step (③) on the back side of the PDP using the guide holes of the wall mount, push (①) and hook (②) down to secure the PDP on the wall mount as illustrated. Secure the PDP by inserting the Safety Pins, not to fall from the wall mount.

PDP panel

Wall attachment panel bracket   Wall
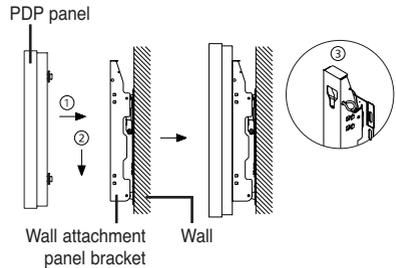
How to Adjust Mounting Angle

➢ Please secure the mounting bracket on the wall surface after setting its angle at 0°

15.0° ±2.0°
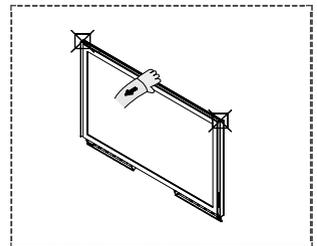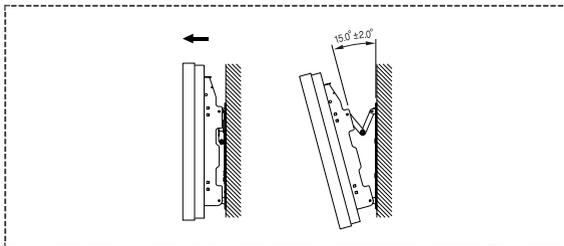
1 Secure the SET to the wall mount bracket.(Please refer to the follow ing instructions.)
2 Set the angle by pulling the upper end of the SET attached to bracket in the direction of the arrow. (Refer to the illustration on the right.)
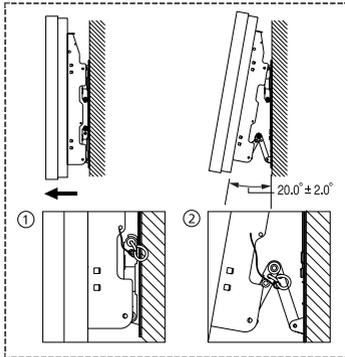**3** The angle can be adjusted from 0° to 15° by ±2°.

Hold onto the middle of the PDP to adjust the angle (not the sides of the PDP).

How to Install the Wall Mount Bracket

Connecting External Devices to the PDP
➢ To connect external devices such as a DVD or a Home Theater System to the PDP, please refer to following instructions:

① ② 20.0°±2.0°

1 Be sure to remove the safety pins underneath the PDP.
  ➢ If the safety pins are not removed, the angle cannot be adjusted. Any attempt to do so may cause damage to the PDP.
2 Hold onto the bottom of the PDP and pull forward fully as directed by the arrow as illustrated) to adjust the angle. (0°~20° by 2°) Insert the Safety Pins to the front guide holes on both sides as illustrated in figure ②.
  ➢ Viewing the PDP after connecting the external devices Remove the Safety Pins to adjust the angle to 0°, and then secure the Safety Pins again.
  ☛ For safety, be sure to secure the PDP using the safety pins. If the safety pins are not used, the PDP may fall, causing serious injury.

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 Internal Mute is set to ON.

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 mains 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.
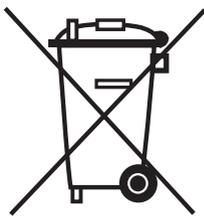
Correct Disposal of This Product
(**W**aste **E**lectrical & **E**lectronic **E**quipment)

(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.

SAMSUNG

Contact SAMSUNG WORLD-WIDE

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

Country	Customer Care Centre ☎	Web Site
BELGIUM	02 201 2418	www.samsung.com/be
CZECH REPUBLIC	844 000 844	www.samsung.com/cz
DENMARK	38 322 887	www.samsung.com/dk
FINLAND	09 693 79 554	www.samsung.com/fi
FRANCE	08 25 08 65 65 (€ 0,15/Min)	www.samsung.com/fr
GERMANY	01805 - 121213 (€ 0,12/Min)	www.samsung.de
HUNGARY	06 40 985 985	www.samsung.com/hu
ITALIA	199 153 153	www.samsung.com/it
LUXEMBURG	02 261 03 710	www.samsung.lu
NETHERLANDS	0900 20 200 88 (€ 0,10/Min)	www.samsung.com/nl
NORWAY	231 627 22	www.samsung.com/no
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UKRAINE	8-800-502-0000	www.samsung.com/ur