

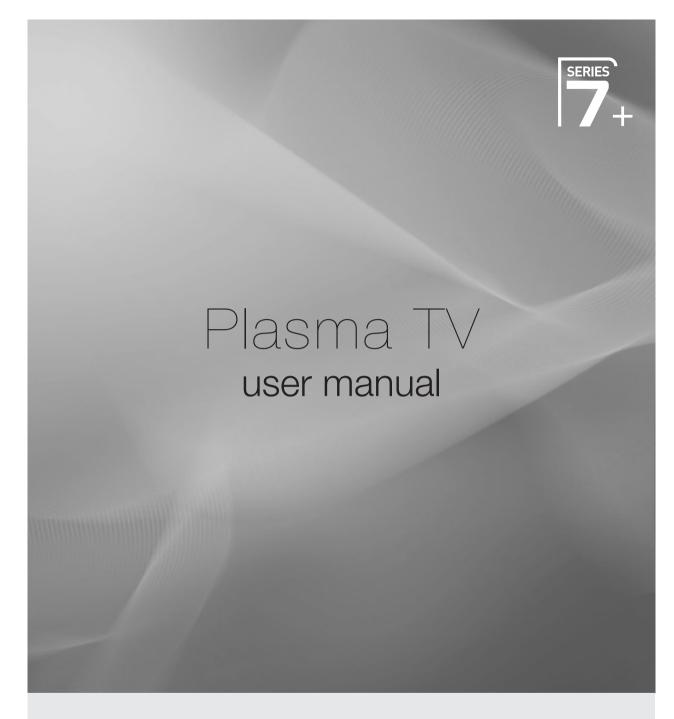
#### Contact SAMSUNG WORLDWIDE

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

Country	Customer Care Centre 🏗	Web Site
EIRE	0818 717 100	www.samsung.com/ie
U.K	0845 SAMSUNG (7267864)	www.samsung.com/uk



BN68-02696J-00



## imagine the possibilities

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

www.samsung.com/register

Model	Serial No.	



Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

#### **Digital TV notice**

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

#### **User Instructions**

#### Screen Image retention

Do not display a still image (such as on a video game) on the plasma display panel for more than several minutes as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, refer to page 15 of this manual to reduce the degree of brightness and contrast of the screen when displaying a still image.

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

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

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

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

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

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

#### Cell Defects

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

- Avoid operating the TV at temperatures below 41°F (5°C)
- A still image displayed too long may cause permanent damage to the PDP Panel.



Watching the Plasma TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effects to the screen.

Damages caused by the above effect are not covered by the Warranty.

#### · After-images on the Screen.

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

#### Warranty

Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty.

WARNINGS: Image retention, commonly known as screen burn-in, can occur on most types of television if the same image is displayed continuously. The most common causes of image retention are logos that remain stationary on the TV screen. These logos are common on many programmes received via a Set-top Box. To reduce this risk, avoid displaying still images for long durations and lower the brightness or contrast settings to decrease the intensity of the picture. Extended viewing of movies and programs in aspect ratios that are different from the aspect ratio of the TV may cause image retention. Always endeavour to avoid black borders top or bottom by using the zoom function. This will help eliminate the black borders and fit the picture to the entire area of the screen. Using a video game console may cause image retention and is not recommended. When using a PC input, avoid displaying still images for long durations and reduce the brightness or contrast settings to decrease the intensity of the picture.

MPORTANT: Image retention issues are not covered by your Samsung® warranty.

## Contents

## **Getting Started**

- 4 Accessories
- 5 Viewing the Control Panel
- 6 Viewing the Remote Control
- 7 Connecting to an Antenna
- 7 Plug & Play (Initial Setup)

## Connections

- 8 Connecting to an AV Device
- 9 Connecting to an Audio Device
- 10 Changing the Input Source

## **Basic Features**

- 11 How to Navigate Menus
- 11 Using the INFO button (Now & Next guide)
- 11 Planning Your Viewing
- 13 Channel Menu
- 15 Picture Menu
- 21 Sound Menu
- 23 Setup Menu
- 26 Support Menu

## **Advanced Features**

- 27 Connecting to a PC
- 28 Network Connection
- 35 Media Play
- 44 Anynet+
- 48 Internet@TV
- 51 AllShare

## **Other Information**

- 53 Analogue Channel Teletext Feature
- 54 Assembling the Cables
- 55 Installing the Wall Mount
- 56 Securing the Installation Space
- 56 Securing the TV to the wall
- 57 Troubleshooting
- 61 Specifications
- 62 Index

Warning! Important Safety Instructions
Wiring the Mains Power Supply Plug (UK Only)

Warranty Card

## Check the Symbol!





This function can be used by pressing the TOOLS button on the remote control.



Note



One-Touch Button

## Getting Started

## **Accessories**

- Nease make sure the following items are included with your PDP TV. If any items are missing, contact your dealer.
- The items' colours and shapes may vary depending on the models.
- Cables not included in the package contents can be purchased separately.
- Remote Control & Batteries (AAA x 2)
- Owner's Instructions

Cleaning Cloth







Blanking Bracket & Screw (X1)

Holder-Wire stand

Cable Tie







Holder-Wire (3EA)

SCART Adapter (1EA)

Component Adapter





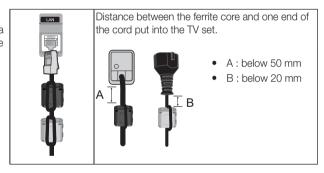


AV Adapter

Ferrite Core (2EA)

• Ferrite Core (2EA)

Ferrite Core: The ferrite cores are used to shield the cables from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug as shown in the figure.



See separate guide for installing the stand.



Stand (1EA)



• Guide Stand (1EA)



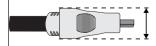
5EA (M4 X L12)



5EA (M4 X L10)

Screws (10EA)

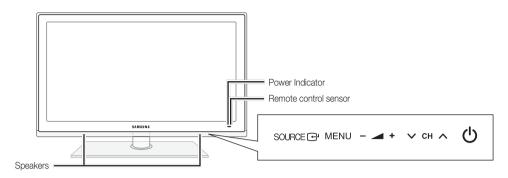
Sor best cable connection to this product, be sure to use cables with a maximum thickness as below:



• Maximum thickness - 0.55 inches (14mm)

## **Viewing the Control Panel**

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



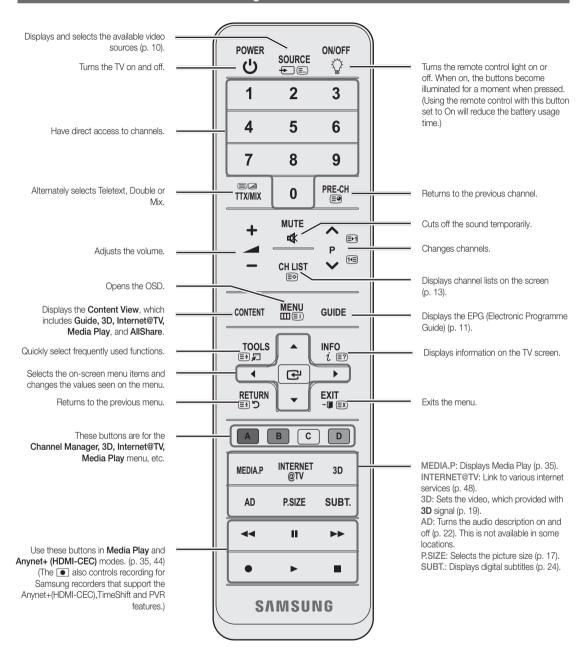
Power Indicator	Blinks and turns off when the power is on and lights up in standby mode.
Remote control sensor	Aim the remote control towards this spot on the TV.
SOURCE [4	Toggles between all the available input sources. In the on-screen menu, use this button as you would use the ENTER → button on the remote control.
MENU	Displays an on-screen menu, the OSD (on screen display) of your TV's features.
+	Adjusts the volume. In the OSD, use the — <u>→</u> + buttons as you would use the ¬ and ▶ buttons on the remote control.
∨ CH ∧	Changes the channels. In the OSD, use the ∨ CH ∧ buttons as you would use the ▼ and ▲ buttons on the remote control.
(Power)	Turns the TV on or off.

#### Standby mode

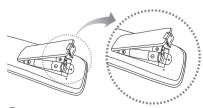
Do not leave your TV in standby mode for long periods of time (when you are away on a holiday, for example). A small amount of electric power is still consumed even when the power button is turned off. It is best to unplug the power cord.

## Getting Started

#### **Viewing the Remote Control**



#### Installing batteries (Battery size: AAA)



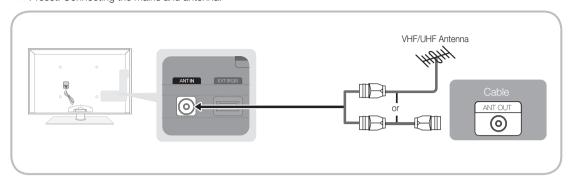
#### NOTE

- · Use the remote control within 23 feet from the TV.
- Bright light may affect the performance of the remote control.
   Avoid using nearby special fluorescent light or neon signs.
- · The colour and shape may vary depending on the model.

## **Connecting to an Antenna**

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

Preset: Connecting the mains and antenna.



## Plug & Play (Initial Setup)

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

To return to the previous step, press the Red button.

1	Selecting a language	Press the ▲ or ▼ button, then press the ENTER → button.  Select the desired OSD (On Screen Display) language.	
2	Selecting <b>Store Demo</b> or <b>Home Use</b>	Press the ◀ or ▶ button, then press the ENTER ☑ button.  • Select the Home Use mode. Store Demo Mode is for retail environments.  • To return the unit's settings from Store Demo to Home Use (standard): Press the volume button on the TV. When the OSD volume is displayed, press and hold MENU for 5 sec.	ſŀ
3	Selecting a country	Press the ▲ or ▼ button, then press the ENTER → button. Select the appropriate country.	
4	Selecting an antenna	Press the ▲ or ▼ button, then press the ENTER → button. Select Air or Cable.	
5	Selecting a channel	Press the ▲ or ▼ button, then press the ENTER ➡ button. Select the channel source to memorise. When setting the antenna source to Cable, a step appears allowing you to assign numerical values (channel frequencies) to the channels. For more information, refer to Channel → Auto Store (p. 13).	
		Press the ENTER  button at any time to interrupt the memorisation process.	
6	Setting the Clock Mode	Set the <b>Clock Mode</b> automatically or manually.  Press the ▲ or ▼ button to select <b>Auto</b> , then press the ENTER → button.	
7	Viewing the HD Connection Guide.	The connection method for the best HD screen quality is displayed.	
8	Enjoy your TV.	Press the ENTER 🚭 button.	

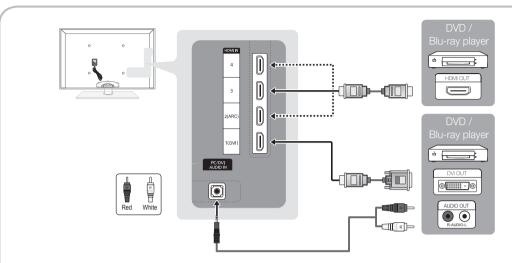
#### If You Want to Reset This Feature...

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

#### Connecting to an AV Device

#### Using an HDMI or HDMI/DVI cable: HD connection (up to 1080p)

Available devices: DVD, Blu-ray player, HD cable box, HD STB (Set-Top-Box) satellite receiver, cable box, satellite receiver (STB)

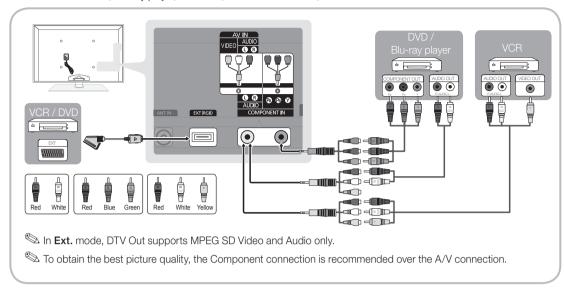


### HDMI IN 1(DVI), 2(ARC), 3, 4, PC/DVI AUDIO IN

- When using an HDMI/DVI cable connection, you must use the HDMI IN 1(DVI) jack. For the DVI cable connection, use a DVI to HDMI cable or DVI-HDMI (DVI to HDMI) adaptor for video connection and the PC/DVI AUDIO IN jacks for audio.
- If an external device such as a DVD / Blu-ray player / cable box / STB satellite receiver supporting a HDMI versions older than 1.4 is connected, the TV may operate abnormally (e.g. no screen display / no sound / annoying flicker / abnormal colour).
- If there is no sound after connecting an HDMI cable, check the HDMI version of the external device. If you
  suspect the version is older than 1.4, contact the provider of the device to confirm the HDMI version and
  request an upgrade.
- Samsung TVs support the HDMI 1.4 (with 3D and Audio Return Channel). However, the ARC(Audio Return Channel) function is only supported on HDMI IN 2(ARC).
  - If 3D Auto View is On, some functions, such as Internet@TV, are disabled. If this is a problem, set 3D Auto View or 3D Mode to Off.
- The ARC function enables digital output of sound using the HDMI IN 2(ARC) port and can only be operated when the TV is connected to an audio receiver that supports the ARC function.
  - The ARC Single mode is only enabled when the TV is connected to the device when using an HDMI Standard cable, HDMI High Speed cable, Hdmi Standard with Ethernet cable, HDMI High Speed with Ethernet cable.
  - When the Input Source is the TV, the ARC function allows audio to be heard from a receiver. The audio is sent
    to a receiver from the TV via an HDMI cable without the need for a separate optical cable.
- It is recommended you purchase an HDMI-certified cable. Otherwise, the screen may appear blank or a connection error may occur.

#### Using a Component (up to 1080p) or Audio/Video (480i only) and Scart Cable

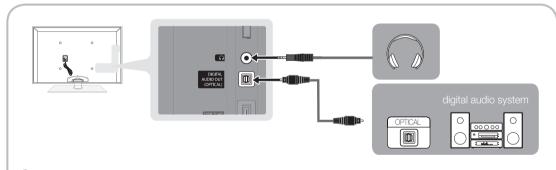
Available devices: DVD, Blu-ray player, cable box, STB satellite receiver, VCR



### **Connecting to an Audio Device**

#### Using an Optical (Digital) or Audio (Analogue) Cable or Headphone Connection

Available devices: digital audio system, amplifier, DVD home theatre



## DIGITAL AUDIO OUT (OPTICAL)

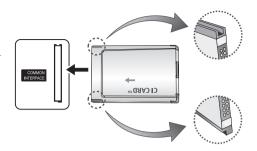
- When a digital audio system is connected to the DIGITAL AUDIO OUT (OPTICAL) jack, decrease the volume
  of both the TV and the system.
- 5.1 CH (channel) audio is available when the TV is connected to an external device supporting 5.1 CH.
- When the receiver (home theatre) is set to on, you can hear sound output from the TV's optical jack. When the TV is receiving a DTV signal, the TV will send 5.1 CH sound to the home theatre receiver. When the source is a digital component such as a DVD / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and is connected to the TV via HDMI, only 2 CH audio will be heard from the home theatre receiver. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB satellite receiver directly to an amplifier or home theatre.
- ➡ Headphones 
  : You can connect your headphones to the headphones output on your set. While the headphones are connected, the sound from the built-in speakers will be disabled.
  - Sound function may be restricted when connecting headphones to the TV.
  - Headphone volume and TV volume are adjusted separately.

## Connections

#### CONNECTIONS COMMON INTERFACE Slot

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

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



## **™** NOTE

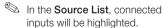
- You must obtain a "CI or CI+ CARD" from a local cable service provider.
- When removing the "CI or CI+ CARD", carefully pull it out with your hands since dropping the "CI or CI+ CARD" may cause damage to it.
- Insert the "CI or CI+ CARD" in the direction marked on the card.
- The location of the COMMON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

#### Changing the Input Source

#### Source List

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

TV / Ext. / PC / AV / Component / HDMI1/DVI / HDMI2 / HDMI3 / HDMI4 / USB

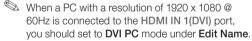


Ext. and PC always stay activated.



#### **Edit Name**

VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI Devices / TV / IPTV / Blu-ray / HD DVD / DMA: Name the device connected to the input jacks to make your input source selection easier.



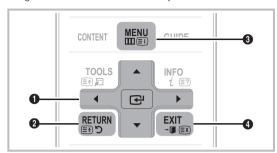
When connecting an HDMI/DVI cable to the HDMI IN 1(DVI) port, you should set to DVI PC or DVI Devices mode under Edit Name.

INFO

## **Basic Features**

#### **How to Navigate Menus**

Before using the TV, follow the steps below to learn how to navigate the menu and select and adjust different functions.



- ENTER / Direction button: Move the cursor and select an item. Confirm the setting.
- 2 RETURN button: Returns to the previous menu.
- MENU button: Displays the main on-screen menu.
- EXIT button: Exits the on-screen menu.

#### How to Operate the OSD (On Screen Display)

The access step may differ depending on the selected menu.

The decess step may amen depending on the constitutions		
1	MENU III	The main menu options appear on the screen:  Picture, Sound, Channel, Setup, Input, Application, Support.
2	▲ / ▼	Select an icon with the ▲ or ▼ button.
3	ENTER €	Press ENTER → to access the sub-menu.
4	▲ / ▼	Select the desired submenu with the $\blacktriangle$ or $\blacktriangledown$ button.
5	<b>◄/▶</b>	Adjust the value of an item with the ◀ or ▶ button. The adjustment in the OSD may differ depending on the selected menu.
6	ENTER €	Press <b>ENTER</b> d to complete the configuration.
7	EXIT <b>→</b>	Press EXIT.

#### Using the INFO button (Now & Next guide)

The display identifies the current channel and the status of certain audio-video settings.

The Now & Next guide shows daily TV programme information for each channel according to the broadcasting time.



Scroll ▲, ▼ to view information for other channels. If you want to move to the currently selected channel, press the ENTER button.

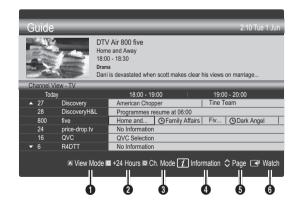


### **Planning Your Viewing**

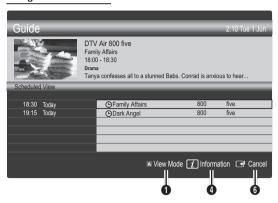
### Guide

The EPG (Electronic Programme Guide) **GUIDE** information is provided by broadcasters. Using programme schedules provided by broadcasters, you can specify programmes you want to watch in advance so that the channel automatically changes to the selected programme channel at the specified time. Programme entries may appear blank or out of date depending on a channel status.

#### **Using Channel View**



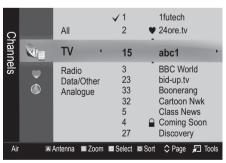
#### Using Scheduled View



- are playing now or coming up.
- be broadcasted after 24 hours.
- 3 Blue (Ch. Mode): Select the type of channels you want to display on the Channel View window. (All, TV, Radio, Data/Other, My Channel 1~4)
- 4 information: Displays details of the selected programme.
- 6 ♦ (Page): Move to next or previous page.
- 6 ENTER → button
  - When selecting the current programme, you can watch the selected programme.
  - When selecting the future programme, you can reserve to watch the selected programme. To cancel the schedule, press the ENTER button again and select Cancel Schedules.

## Channel Manager

Delete or set favourite channels and use the programme guide for digital broadcasts. Select a channel in the Channels, My Channels or Scheduled screen.



- Channels: Shows the channel list according to channel type.
- W My Channels: Shows the group of the channel.
- Scheduled: Shows all the currently reserved programmes.
- Using the colour buttons with the Channel Manager
  - A Red (Antenna): Toggle among Air or Cable.
  - B Green (Zoom): Enlarges or shrinks a channel
  - the Yellow button to set all the selected channels at the same time. The  $\checkmark$  mark appears to the left of the selected channels.
  - Blue (Sort): Change the list ordered by channel name or channel number.
  - ♦ (Page): Move to next or previous page.
  - (Tools): Displays the Channel Manager option menu. (The options menus may differ depending on the situation.)

#### Channel Status Display Icons

Icons	Operations	
Α	An analogue channel.	
<b>✓</b>	A channel selected.	
•	A channel set as a Favourite.	
ď	A programme currently being broadcast.	
	A locked channel.	
<u> </u>	A reserved programme.	

## Guide Type (Samsung / Guide Plus+)

(depending on the country)

You can select a different type of Guide.

- Samsung: Uses the guide programme by provided samsung.
- Guide Plus+: Uses the guide programme provided by Rovi International Solutions. For more information, refer to "www.europe.guideplus.com."

### **Using Favourite Channels**

## My Channels

#### (in Channel Manager)

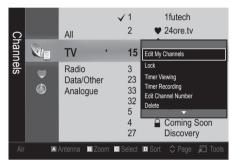
Shows all favourite channels.

Edit My Channels TOOLS : You can set the selected channels to desired my channels group.



The "♥" symbol will be displayed and the channel will be set as a my channel.

- 1. Select a channel and press the TOOLS button.
- 2. Add or delete a channel in the my channel groups you want among 1, 2, 3 and 4.
  - One or more groups can be selected.
- 3. After you have changed the settings, the channel list for each group can be viewed in my channels.



#### Channel List

You can see all the channels searched. Use to select a customized channel, for thecurrently selected input, from the lists All / TV / Radio / Analogue.



The current input is indicated in the bottom left corner of the Channel List window. Select a different input by pressing the A button.



#### Channel Menu

### **Retuning Channels**

## Antenna (Air / Cable)

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

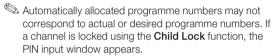
## Country

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

- Digital Channel: Change the country for digital
- Analogue Channel: Change the country for analogue channels.

#### **Auto Store**

Scans for a channel automatically and stores in the TV.



- Antenna Source (Air / Cable) TOOLS : Select the antenna source to memorise.
- Channel Source (Digital & Analogue / Digital / Analogue): Select the channel source to memorise.

When selecting Cable → Digital & Analogue or Digital: Provide a value to scan for cable channels.

Search Mode (Full / Network / Quick): Scans for all channels with active broadcast stations and stores them in the TV.



If you select **Quick**, you can set up the **Network**, Network ID, Frequency, Modulation and Symbol Rate manually by pressing the button on the remote control.

Network (Auto / Manual): Selects the Network ID setting mode among Auto or Manual.

Network ID: When Network is Manual, you can set up Network ID using the numeric buttons.

Frequency: Displays the frequency for the channel. (differs in each country)

Modulation: Displays available modulation values. Symbol Rate: Displays available symbol rates.

#### Manual Store

Scans for a channel manually and stores in the TV.

- If a channel is locked using the Child Lock function, the PIN input window appears.
- Digital Channel: When scanning has finished, channels are updated in the channel list.
  - When selecting Antenna → Air: Channel, Frequency, Bandwidth
  - When selecting Antenna → Cable: Frequency, Modulation, Symbol Rate
- Analogue Channel (Programme, Colour System, Sound System, Channel, Search): If there is abnormal sound or no sound, reselect the sound standard required.
- Channel mode
  - P (programme mode): When tuning is complete, the broadcasting stations in your area have been assigned to position numbers from P0 to P99. You can select a channel by entering the position number in this mode.
  - C (aerial channel mode) / S (cable channel mode):
     These two modes allow you to select a channel by entering the assigned number for each aerial broadcasting station or cable channel.

### Editing Channels

#### Channel Manager Option Menu

#### (in Channel Manager)

- 1. Select a channel and press the TOOLS button.
- Edit the channel name or number using the Edit Channel Name or Edit Channel Number menu.
- Edit Channel Name (analogue channels only): Assign your own channel name.
- Edit Channel Number (digital channels only): Edit the number by pressing the number buttons desired.

#### Other Features

## Cable Search Option

(depending on the country)

Sets additional search options such as the frequency and symbol rate for a cable network search.

- Freq.Start / Freq.Stop: Set the start or stop frequency (differs in each country).
- Modulation: Displays available modulation values.
- Symbol Rate: Displays available symbol rates.

## **Channel Manager**

#### Channel Manager Option Menu

Set each channel using the Channel Manager menu options (Lock / Unlock, Timer Viewing, Timer Recording, Sort, Delete, Select All / Deselect All). Option menu items may differ depending on the channel status.

- 1. Select a channel and press the TOOLS button.
- 2. Select a function and change its settings.
- Lock / Unlock: Lock a channel so that the channel cannot be selected and viewed.

## NOTE

- This function is available only when the Child Lock is set to On.
- The PIN input screen appears. Enter your 4-digit PIN, the default of which is "0-0-0-0". Change the PIN using the Change PIN option.
- Timer Viewing: You can set a desired channel to be displayed automatically at the reserved time. Set the current time first to use this function.
  - When a digital channel is selected, press the ▶ button to view the digital Programme.
- Timer Recording (digital channels only): Allows you to record a programme currently being broadcasted or make a reservation to record a programme scheduled for broadcast.
  - A USB device with 4GB of memory or greater must be connected to the TV.
  - A USB storage device cannot record until it completes the Device Performance Test.
  - In case of USB-HDD, over 5400rpm
  - In case of USB Stick, USB 2.0 and SLC Type. (Minimum size of USB Stick is 2GB.)
- **Sort** (analogue channels only): This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.
- Delete: You can delete a channel to display the channels you want.
- Select All / Deselect All: Select all the channels or deselect all the selected channels in the channel manager.

#### **Channel List Transfer**

The PIN input screen appears. Enter your 4 digit PIN number. Imports or exports the channel map. You should connect a USB storage to use this function.

- Import from USB: Import channel list from USB.
- Export to USB: Export channel list to USB. this function is available when USB is connected.

## Scheduled

#### (in Channel Manager)

You can view, modify or delete a show you have reserved to

- Change Info: Change a show you have reserved to watch.
- Cancel Schedules: Cancel a show you have reserved to watch.
- Information: Display a show you have reserved to watch. (You can also change the reservation information.)
- Select All / Deselect All: Select or deselect all reserved programmes.

#### Fine Tune

(analogue channels only)

If the signal is weak or distorted, fine tune the channel manually.

Fine tuned channels are marked with an asterisk "\*".

To reset the fine-tuning, select Reset.

#### Picture Menu

## Changing the Preset Picture Mode

#### Mode Tools₁

Select your preferred picture type.

- **Dynamic**: Suitable for a bright room.
- Standard: Suitable for a normal environment.
- Relax: Suitable for reducing eye strain.
  - Relax is not available in PC mode.
- Movie: Suitable for watching movies in a dark room.

### **Adjusting Picture Settings**

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

Your television has several setting options for picture quality control.



- In analogue TV. Ext.. AV modes of the PAL system. the Tint (G/R) function is not available.
- In PC mode, you can only make changes to Cell Light, Contrast and Brightness.
- · Settings can be adjusted and stored for each external device connected to the TV.

#### **Economical Solutions**

#### **Eco Solution**

- Energy Saving (Off / Low / Medium / High / Picture Off) TOOLS 1: Adjust the brightness of the TV in order to reduce power consumption. If you select Picture Off, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen. Until the screen turns on again, a distorted picture will be displayed for about 4 seconds.
- Eco Sensor (Off / On): To enhance your power savings: the picture settings will automatically adapt to the light in the room.
  - If you adjust the Cell Light, the Eco Sensor will be set to Off.

Min Cell Light: When Eco sensor is On, the minimum screen brightness can be adjusted manually.

- If Eco Sensor is On, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity.
- No-Signal Power Off (Off / 15 min / 30 min / 60 min): To avoid unnecessary energy consumption, set how long you want the TV to remain on if it's not receiving a signal.
  - Disabled when the PC is in power saving mode.

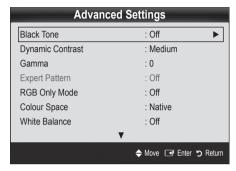
### Changing the Picture Options

## **Advanced Settings**

(available in Standard / Movie mode)

You can adjust the detailed setting for the screen including colour and contrast.

In PC mode, you can only make changes to **Dynamic Contrast, Gamma** and **White Balance**.



- Black Tone (Off / Dark / Darker / Darkest): Select the black level to adjust the screen depth.
- Dynamic Contrast (Off / Low / Medium / High): Adjust the screen contrast.
- Gamma: Adjust the primary colour intensity.
- Expert Pattern (Off / Pattern1 / Pattern2): By running the Expert Pattern function, the picture can be calibrated without a generator or filter. If the OSD menu disappears or a menu other than the Picture menu is opened, the calibration is saved and the Expert Pattern window disappears. Until the screen turns on again, a distorted picture will be displayed for about 4 seconds.
  - While the Expert Pattern is running, sound is not outputted.
  - Only enabled in DTV, Component and HDMI modes.
  - Disabled for channels that support MHEG if Digital Text is Enable.
- RGB Only Mode (Off / Red / Green / Blue): You can adjust Colour or Tint (G/R) of Red, Green or Blue for the picture from an external device (DVD player, home theatre, etc.).

- Colour Space (Auto / Native / Custom): Adjust the range of colours available to create the image. To adjust Colour, Red, Green, Blue and Reset, set Colour Space to Custom.
- White Balance: Adjust the colour temperature for a more natural picture.

R-Offset / G-Offset / B-Offset: Adjust each colour's (red, green, blue) darkness.

R-Gain / G-Gain / B-Gain : Adjust each colour's (red, green, blue) brightness.

Reset: Resets the White Balance to it's default settings.

- 10p White Balance (Off / On): Controls the white balance in 10 point interval by adjusting the red, green, and blue brightness.
  - Available when the picture mode is set to Movie and when the external input is set to HDMI or Component.
  - Some external devices may not support this function.

Interval: Select interval to adjust.

Red: Adjust the red level.

Green: Adjust the green level.

Blue: Adjust the blue level.

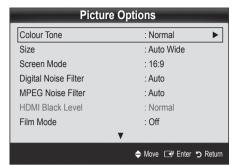
Reset: Resets the 10p White Balance to its default

settii igs.

- Flesh Tone: Emphasize pink "Flesh Tone."
- Edge Enhancement (Off / On): Emphasize object boundaries.
- xvYCC (Off / On): Setting the xvYCC mode on increases detail and colour space when watching movies from an external device (e.g. DVD player) connected to the HDMI or Component IN jacks.
  - Available when the picture mode is set to Movie and when the external input is set to HDMI or Component.
  - Some external devices may not support this function.

## **Picture Options**

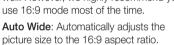
In PC mode, you can only make changes to the Colour Tone. Size and Screen Burn Protection.



- Colour Tone (Cool / Normal / Warm1 / Warm2)
  - Warm1 or Warm2 will be deactivated when the picture mode is **Dynamic**.
  - Settings can be adjusted and stored for each external device connected to an input on the TV.

P.SIZE

Size: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.



16:9: Adjusts the picture size to 16:9 for DVDs or wide broadcasting.

Wide Zoom: Magnifies the picture size more than 4:3. Adjusts the Position by using ▲, ▼ buttons.

Zoom: Magnifies the 16:9 wide pictures vertically to fit the screen size.

Adjusts the **Position** or **Size** by using **▲**, **▼** button.

4:3: The default setting for a movie or normal broadcasting.

Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and centre of the screen may cause image retention(screen burn) which are not covered by the warranty.

Screen Fit: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.



- Depending on the input source, the picture size options may vary.
- · The available items may differ depending on the selected mode.
- In PC mode, only 16:9 and 4:3 modes can be adjusted.
- Settings can be adjusted and stored for each external device connected to an input of the TV.
- After selecting Screen Fit in HDMI (1080i / 1080p) or Component (1080i / 1080p) mode: Adjusts the Position or Size by using ▲, ▼, ◀, ▶ button.
- If you use the Screen Fit function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.
- Screen Mode (16:9 / Wide Zoom / Zoom / 4:3): Available only when picture size is set to Auto Wide. You can determine the desired picture size at the 4:3 WSS (Wide Screen Service) size or the original size. Each European country requires different picture size.
  - Not available in PC, Component or HDMI mode.
- Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualisation): When the broadcast signal is weak, some static and ghosting may appear. Select one of the options until the best picture is displayed.

Auto Visualisation: When changing analogue channels. displays the intensity of the current signal and defines the screen noise filter.

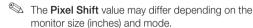
- Only available for analogue channels.
- MPEG Noise Filter (Off / Low / Medium / High / Auto): Reduces MPEG noise to provide improved picture quality.
- HDMI Black Level (Normal / Low): Selects the black level on the screen to adjust the screen depth.
  - Available only in HDMI mode (RGB signals).
- Film Mode (Off / Auto1 / Auto2 / Cinema Smooth): Sets the TV to automatically sense and process film signals from all sources and adjust the picture for optimum quality.
  - An 1080p 24Hz HDMI signal must be input to use the Cinema Smooth function.
  - Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).
- Motion Judder Canceller (Off / Standard / Smooth/ Demo): Removes drag from fast scenes with a lot of movement to provide a clearer picture.
  - If Motion Judder Canceller is Demo, you can compare the difference of on and off modes.

Screen Burn Protection: To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. The Time setting allows you to Programme the time between movement of the picture in minutes.

Pixel Shift (Off / On): Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to minimize after images on the screen.

Optimum condition for pixel shift

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



This function is not available in the Screen Fit mode

Auto Protection Time (10 min / 20 min / 40 min / 1 hour / Off): If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.

Scrolling: This function removes 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.

- 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 the after-image is not removed after performing the function, repeat the function again.
- Press any key on the remote control to cancel this

Side Grey (Light / Dark): When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.

### Viewing TV using the 3D function

IMPORTANT SAFETY INFORMATION. READ THE FOLLOWING WARNINGS BEFORE YOU OR YOUR CHILD USE THE 3D FUNCTION

#### ♠ WARNING

- · As the TV turns on, the left and right sides of 3D pictures may overlap more than usual. It may take time until the picture quality is optimized.
- The 3D effect may be experienced differently depending on the viewer. You may not notice the 3D effect at all if you have a prescription for one eye that is very different from the other eye.
- · Parents' careful supervision is required particularly when children or teenagers view 3D images.

- Photosensitive Seizure Warning and Other Health Risks
  - Some viewers may experience an epileptic seizure or stroke when exposed to certain flashing images or lights contained in certain television pictures or video games. If you or any of your relatives has a history of epilepsy or strokes, please consult with a medical specialist before using the 3D function.
  - Do not watch 3D pictures when you feel incoherent, sleepy, tired or sick. Avoid watching 3D pictures for long hours.
  - Even those without a personal or family history of epilepsy or stroke may have an undiagnosed condition that can cause "photosensitive epileptic seizures."
  - If you experience any of the following symptoms immediately stop watching 3D pictures and consult a medical specialist: (1) altered vision; (2) lightheadedness; (3) dizziness; (4) involuntary movements such as eye or muscle twitching; (5) confusion; (6) nausea; (7) loss of awareness; (8) convulsions; (9) cramps; and/or (10) disorientation. Parents should monitor and ask their children about the above symptoms-children and teenagers may be more likely than adults to experience these symptoms.
- · Note that watching TV while sitting too close to the screen for an extended period of time may weaken your eyesight.
- · Note that watching TV while wearing 3D Active Glasses for an extended period of time may cause a headache or fatigue. If you feel headache, fatigue or dizziness, stop watching TV and rest.
- Some 3D pictures may startle viewers. The pregnant, elderly, epileptic and those suffering from serious physical conditions are advised to avoid utilizing the unit's 3D functionality.
- · We don't recommend 3D pictures to those who are in bad physical condition, who are sleep-deprived or who drank liquor.
- · Please take care to be aware of the world around you. This product is designed to be immersive. DO NOT use this product near open stairwells, cables, balconies, or other objects that can be tripped over, run into, knocked down, broken or fallen over. Being startled or deluding yourself into thinking that the 3D images are real may cause you to crush a nearby object or get injured trying to move your body.
- · Do not use the 3D Active Glasses for any other purpose than for which it was designed. Wearing the with 3D Active Glasses for any other purpose (as general spectacles, sunglasses, protective goggles, etc.) may physically harm you or weaken your eyesight.

- Immersive video can potentially have adverse effects on the user including motion sickness, perceptual after effects, disorientation, eve strain, and decreased postural stability. Take frequent breaks to lessen the potential of these effects, as is commonly suggested for other items, such as keyboards and computer monitors, that you may tend to fixate or concentrate on. If your eyes show signs of fatigue or dryness or if you have any of the above symptoms, immediately discontinue use of this device and do not resume using it for at least thirty minutes after the symptoms have subsided.
- The ideal viewing distance should be three times or more the height of the screen. We recommend sitting with viewer's eves on a level with the screen.

3D

#### 3D

This exciting new feature enables you to view 3D content. In order to fully enjoy this feature, you must purchase a pair of Samsung 3D Active Glasses (SSG-2100AB, SSG-2200AR, SSG-2200KR) to view 3D video.

Samsung 3D Active Glasses are sold separately. For more detailed purchasing information, contact the retailer where you purchased this TV.



- The LED on the 3D emitter blinks only when sending a 3D signal.
- If there is any obstacle between the emitter and 3D Active Glasses, the proper 3D effect may not be obtained.

- 3D Mode: Select the 3D input format.
  - If you want to feel the 3D effect fully, please wear the 3D Active Glasses first, and then select **3D Mode** from the list below that provides the best 3D viewing experience.
  - When watching 3D images, turn on 3D Active Glasses.

3D	Mode	Operation	
Off		Turns the 3D function off.	
<b>1</b> 20→30	$2D\to 3D$	Changes a 2D image to 3D.	
* *	Side by Side	Displays two images next to each other.	
*	Top & Bottom	Displays one image above another.	
**	Line by Line	Displays the images for the left and right eye alternately in rows.	
**	Vertical Stripe	Displays the images for the left and right eye alternately in columns.	
*	Checker Board	Displays the images for the left and right eye alternately in pixels.	
*	Frequency	Displays the images for the left and right eye alternately in frames.	

- "Side by Side" and "Top & Bottom" are available when the resolution is 720p, 1080i and 1080p in DTV, HDMI and USB mode or set to PC connecting through HDMI/DVI cable.
- "Vertical Strip", "Line by Line" and "Checker Board" are available when the resolution is set to PC connecting through HDMI/DVI cable.
- "Frequency" displays the frequency (60Hz only) when the resolution is set to PC.
- $3D \rightarrow 2D$  (Off / On): Displays the image for the left eve only.
  - This function is deactivated when 3D Mode set to "2D  $\rightarrow$  3D" or **Off**.
- **Depth**: Adjusts focus / depth in "2D  $\rightarrow$  3D" mode.
  - This function is only activated when the 3D Mode is "2D  $\rightarrow$  3D".
- Picture Correction: Adjusts the images for the left and right eye.

■ 3D Auto View (Off / On): If 3D Auto View is set to On, a "Side by Side" format HDMI signal with one of the resolutions below is automatically switched to 3D. Here, correct 3D information must be sent from the HDMI 1.3 transmitter.





Resolution	Frequency (Hz)
1280 x 720p	50 / 60 Hz
1920 x 1080i	50 / 60 Hz
1920 x 1080p	24 / 30 / 50 / 60 Hz

#### Resolution supported for HDMI PC mode

The resolution for HDMI PC mode is optimized to  $1920 \times 1080$  input.

An input resolution other than 1920 x 1080 may not be displayed properly in 3D display or full screen mode.

#### How to watch the 3D image





- Press the CONTENT button, then the Content View menu will appear.
- Press the ◀ or ▶ button, then select 3D.
   To watch in 3D, wear 3D Active Glasses and press the power button on the glasses.
- 3. Select **OK**, then press the **ENTER**  $\longrightarrow$  button.
- Using the ◀ or ▶ buttons on your remote control, selects the 3D Mode of the image you want to view.
  - Some 3D modes may not be available depending on the format of the image source.

## Supported formats and operating specifications for HDMI 1.4

Source signal format	Standard HDMI 1.4 3D
1920x1080p@24Hz x 2	1920x2205p@24Hz
1280x720p@60Hz x 2	1280x1470p@60Hz
1280x720p@50Hz x 2	1280x1470p@50Hz

The mode is automatically switched to 3D mode for the 3D video input in one of the formats above.

For the HDMI 1.4@24Hz format, the TV is optimized as follows:

 Judder Reduction Display Mode: When Motion Judder Canceller is set to Smooth, you can watch a smooth picture without judder.

#### Before using 3D function...



- You may notice a small amount of screen flickering when watching 3D images in poor light conditions (from a strobe light, etc.), or under a fluorescent lamp (50Hz ~ 60Hz) or 3 wavelength lamp. If so, dim the light or turn the lamp off.
- 3D mode is automatically disabled in following cases: when changing a channel or the input source, or accessing Media Play or Internet@TV.
- · Some Picture functions are disabled in 3D mode.
- PIP and data broadcast is not supported in 3D mode.
- Data broadcasts (MHEG / MHP) are not supported in 3D mode.
- 3D Active Glasses from other manufacturers may not be supported.
- The 3D Active Glasses may not work properly if there is any other 3D product or electronic devices turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.
- When watching pictures from a 50Hz 3D source with its Game mode On, visually-sensitive viewers may see some flicker on bright images.
- Photos of Media Play are shown in "2D → 3D" mode only.
- If lying on your side, the 3D-effects may not be displayed.
- Be sure to stay within the viewing angle and optimum TV viewing distance when watching 3D pictures.
  - Otherwise, you may not be able to enjoy proper 3D effects.

## Picture Reset (OK / Cancel)

Resets your current picture mode to its default settings.

## Setting up the TV with Your PC

Set the input source to PC.

## Auto Adjustment TOOLS

Adjust frequency values/positions and fine tune the settings automatically.

Not available when connecting through HDMI/DVI

#### Screen

- Coarse / Fine: Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (Coarse) and Finetune again. After the noise has been reduced, readjust the picture so that it is aligned to the centre of screen.
- Position: Adjust the PC screen position with direction button ( $\blacktriangle$  /  $\blacktriangledown$  /  $\blacktriangleleft$  /  $\blacktriangleright$ ).
- Image Reset: Resets the image to default settings.

#### Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP) Depending on the version of Windows and the video card, the actual screens on your PC may differ in which case the same basic set-up information will almost always be applied. (If not, contact your computer manufacturer or Samsung Dealer.)

- 1. Click on "Control Panel" on the Windows start menu.
- Click on "Appearance and Themes" in the "Control Panel" window and a display dialog-box will appear.
- 3. Click on "Display" and a display dialog box will appear.
- 4. Navigate to the "Settings" tab on the display dialog-box.
- The correct size setting (resolution) [Optimum: 1920 X 1080 pixels]
- If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.

#### Sound Menu

### Changing the Preset Sound Mode

#### SRS TheaterSound TOOLS

- Standard: Selects the normal sound mode.
- Music: Emphasizes music over voices.
- Movie: Provides the best sound for movies.
- Clear Voice: Emphasizes voices over other sounds.
- Amplify: Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

### **Adjusting Sound Settings**

#### Equalizer

Adjusts the sound mode (standard sound mode only).

- Balance L/R: Adjusts the balance between the right and left speaker.
- 100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.
- **Reset**: Resets the equalizer to its default settings.
- Sound Systems, Etc.

### SRS TruSurround HD (Off / On) TOOLS

(standard sound mode only)

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

## SRS TruDialog (Off / On)

(standard sound mode only)

This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

## Audio Language TOOLS 7

(digital channels only)

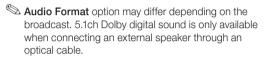
Change the default value for audio languages.

The available language may differ depending on the broadcast.

#### **Audio Format**

(digital channels only)

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

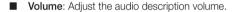


## **Audio Description**

(not available in all locations) (digital channels only)

This function handles the Audio Stream for the AD (Audio Description) which is sent along with the Main audio from the broadcaster.





## Auto Volume (Off / Normal / Night)

To equalize the volume level on each channel, set to Normal.

 Night: This mode provides an improved sound experience compared to Normal mode, making almost no noise. It is useful at night.

## Speaker Select (External Speaker / TV Speaker)

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to **External Speaker**.

- When Speaker Select is set to External Speaker, the volume and MUTE buttons will not operate and the sound settings will be limited.
- When Speaker Select is set to External Speaker
- TV Speaker: Off, External Speaker: On
- When Speaker Select is set to TV Speaker
  - · TV Speaker: On, External Speaker: On
- If there is no video signal, both speakers will be mute.

## **Additional Setting**

(digital channels only)

AD

- DTV Audio Level (MPEG / HE-AAC): This function allows you to reduce the disparity of a voice signal (which is one of the signals received during a digital TV broadcast) to a desired level.
  - According to the type of broadcast signal, MPEG / HE-AAC can be adjusted between -10dB and 0dB.
  - To increase or decrease the volume, adjust between the range 0 and -10 respectively.
- SPDIF Output: SPDIF (Sony Philips Digital InterFace) is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

**Audio Format**: During the reception of a digital TV broadcast, you can select the Digital Audio output (SPDIF) format from the options **PCM** or **Dolby Digital**.

By connecting to 5.1ch speakers in a Dolby Digital setup, maximize your interactive 3D sound experience.

**Audio Delay**: Correct audio-video sync problems, when watching TV or video, and when listening to digital audio output using an external device such as an AV receiver (0ms ~ 250ms).

- Dolby Digital Comp (Line / RF): This function minimizes signal disparity between a dolby digital signal and a voice signal (i.e. MPEG Audio, HE-AAC, ATV Sound).
  - Select Line to obtain dynamic sound, and RF to reduce the difference between loud and soft sounds at night time.

**Line:** Set the output level for signals greater or less than -31dB (reference) to either -20dB or -31dB.

**RF**: Set the output level for signals greater or less than -20dB (reference) to either -10dB or -20dB.

## Sound Reset (OK / Cancel)

Reset all sound settings to the factory defaults.

## Selecting the Sound Mode TOOLS 2

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

	Audio Type	Dual I-II	Default
4.0	Mono	Mono	Automatic
A2 Stereo	Stereo	Stereo ↔ Mono	change
Steleo	Dual	Dual $I \leftrightarrow$ Dual $II$	Dual I
	Mono	Mono	Automatic
NICAM	Stereo	Mono ↔ Stereo	change
Stereo	Dual	Mono ↔ Dual I	Duel T
	Duai	Dual II      ✓	Dual I

If the stereo signal is weak and an automatic switching occurs, then switch to the mono.

#### Setup Menu

## Setting the Time

#### Time

- Clock: Setting the clock is for using various timer features of the TV.
  - The current time will appear every time you press the INFO button.
  - If you disconnect the power cord, you have to set the clock again.

#### Clock Mode (Auto / Manual)

- Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.
- The antenna must be connected in order to set the time automatically.

Clock Set: Set the Day, Month, Year, Hour and Minute manually.

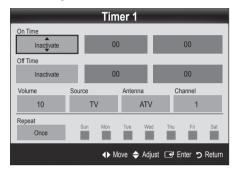
Available only when Clock Mode is set to Manual.

### Using the Sleep Timer

- Sleep Timer TOOLS 1: Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).
  - To cancel Sleep Timer, select Off.

## Setting the On / Off Timer

Timer 1 / Timer 2 / Timer 3: Three different on / off timer settings can be made. You must set the clock first.



On Time / Off Time: Set the hour, minute, and activate / inactivate. (To activate timer with the setting you've chosen, set to Activate.)

Volume: Set the desired volume level.

Source: Select TV or USB content to be played when the TV is turned on automatically. (USB can be selected only when a USB device is connected to the TV)

Antenna (when the Source is set to TV): Select ATV or

Channel (when the Source is set to TV): Select the desired channel.

Contents (when the Source is set to USB): Select a folder in the USB device containing music or photo files to be played when the TV is turned on automatically.

#### NOTE

- · If there is no music file on the USB device or the folder containing a music file is not selected, the Timer function does not operate correctly.
- · When there is only one photo file in the USB device, the Slide Show will not play.
- If a folder name is too long, the folder cannot be selected.
- Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.

Only activated in stereo sound signal.

Only available when the **Input** source is set to **TV**.

Repeat: Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual to set at you convenience. If you select Manual, you can set up the day you want to activate the timer.

The ✓ mark indicates the day is selected.

Auto Power Off (available only when the TV is turned on by Timer): The TV will be automatically turned off after 3 hours of being left idle to prevent overheating.

## **Locking Programmes**

## Security

The PIN input screen appears before the setup screen.

Enter your 4-digit PIN, the default of which is "0-0-0-0". Change the PIN using the **Change PIN** option.

Child Lock (Off / On): Lock channels in Channel Manager, to prevent unauthorized users, such as children, from watching unsuitable programme.

Available only when the **Input** source is set to **TV**.

■ Parental Lock (depending on the country): Prevent unauthorized users, such as children, from watching unsuitable programme with a user-defined 4-digit PIN code. If selected channel is locked, the "♠" symbol will be displayed.

Allow All: Unlock All TV ratings.

Change PIN: Change your personal ID number required to set up the TV.

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).

#### Other Features

#### Language

- Menu Language: Set the menu language.
- Teletext Language: Set a desired language for teletext.
  - English is the default in cases where the selected language is unavailable in the broadcast.
- Preference (Primary Audio Language / Secondary Audio Language / Primary Subtitle Language / Secondary Subtitle Language / Primary Teletext Language / Secondary Teletext Language): Select a language, which will be the default language when a channel is selected.

#### Subtitle

Use this menu to set the Subtitle mode.

- Subtitle (Off / On): Switches subtitles on or off.
- Mode (Normal / Hearing Impaired): Sets the subtitle mode.
- Subtitle Language: Sets the subtitle language.



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

## Digital Text (Disable / Enable)

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

MHEG (Multimedia and Hypermedia Information Coding Experts Group)

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

# Network (Network Type / Network Setup / Network Test / SWL(Samsung Wireless Link) / SWL connect)

For details on set up options, refer to the "Network Connection" instructions (p. 28).



### General

Game Mode (Off / On): When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game mode.

#### NOTE

- Precautions and limitations for game mode
  - To disconnect the game console and connect another external device, set Game Mode to Off in the setup menu.
  - If you display the TV menu in Game Mode, the screen shakes slightly.
- Game Mode is not available when the input source is set to TV or PC.
- After connecting the game console, set Game Mode to On. Unfortunately, you may notice reduced picture quality.
- If Game Mode is On:
  - Picture mode is set to Standard and Sound mode is set to Movie.
  - Equalizer is not available.
- BD Wise (Off / On): Provides the optimal picture quality for Samsung DVD, Blu-ray and Home Theatre products which support BD Wise. When BD Wise is turned On, the picture mode is automatically changed to the optimal resolution.
  - Available when connecting Samsung products that support BD Wise through a HDMI cable.
- Menu Transparency (Bright / Dark): Set the Transparency of the menu.
- Melody (Off / Low / Medium / High): Set so that a melody plays when the TV is turned on or off.
  - Melody is disabled when FastStart is On.
- FastStart (Off / On): When the TV is powered on, the screen will come on quickly with this feature.

#### Common Interface

- CI Menu: This enables the user to select from the CAMprovided menu. Select the CI Menu based on the menu PC Card.
- Application Info: View information on the CAM inserted into the CI slot and on the "CI or CI+ CARD" which is inserted into the CAM. You can install the CAM anytime whether the TV is on or off.
- 1. Purchase a CI CAM module at your nearest dealer or by phone.
- 2. Firmly insert the "CI or CI+ CARD" into the CAM in the direction of the arrow.
- 3. Insert the CAM with the "CI or CI+ CARD" into the common interface slot, in the direction of the arrow so that it aligns parallel with the slot.
- 4. Check if you can see a picture on a scrambled signal channel.

#### Wireless Remote Control

Turn wireless remote controls on or off or give permission to wireless remote controls.

### Picture In Picture (PIP)

#### PIP TOOLS 7

You can watch the TV tuner and one external video source simultaneously. PIP (Picture-in-Picture) does not function in the same mode.

### NOTE

- · For PIP sound, refer to the Sound Select instructions.
- If you turn the TV off while watching in PIP mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
- While Internet@TV is in operation, the PIP function cannot be used.
- · PIP settings

Main picture	Sub picture
Component, HDMI1/DVI, HDMI2, HDMI3, HDMI4, PC	TV

- PIP (Off / On): Activate or deactivate the PIP function.
- Channel: Select the channel for the sub-screen.
- Size ( / / / Select a size for the subpicture.
- Position ( / / / / Select a position for the sub-picture.
  - In Double (III, III) mode, Position cannot be selected.
- Sound Select (Main / Sub): You can choose the desired sound (Main / Sub) in PIP mode.

#### **Support Menu**

## Self Diagnosis

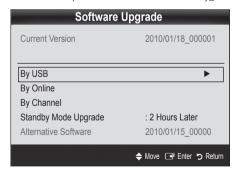
- Self Diagnostic might take few seconds, this is part of the normal operation of the TV.
- Picture Test (Yes / No): Use to check for picture
- Sound Test (Yes / No): Use the built-in melody sound to check for sound problems.
  - If you hear no sound from the TV's speakers, before performing the sound test, make sure Speaker Select is set to TV Speaker in the Sound menu.
  - The melody will be heard during the test even if Speaker Select is set to External Speaker or the sound is muted by pressing the MUTE button.
- Signal Information: (digital channels only) HDTV channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- Troubleshooting: If the TV seems to have a problem, refer to this description.
  - If none of these troubleshooting tips apply, contact the Samsung customer service centre.

## Software Upgrade

Software Upgrade can be performed via a broadcasting signal or by network connection or downloading the latest firmware from "www.samsung.com," to a USB memory device.

Current Version the software already installed in the TV.

Software is represented as "Year/Month/Day\_Version".



#### Installing the Latest Version

Bv USB: Insert a USB drive containing the firmware upgrade file, downloaded from "www. samsung.com," into the TV. Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV



will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to to write down your settings so that you can easily reset them after the upgrade.

- By Online: Upgrade the software using the Internet.
  - First, configure your network. For detailed procedures on using the Network Setup, refer to the "Network Connection" instructions.
  - If the internet connection doesn't operate properly, the connection may be broken. Please retry downloading. If the problem persists, download by USB and upgrade.
- By Channel: Upgrade the software using the broadcasting signal.
  - If the function is selected during the software transmission period, software will be automatically searched and downloaded.
  - The time required to download the software is determined by the signal status.
- Standby Mode Upgrade: A manual upgrade will be automatically performed at selected time. Since the power of the unit is turned on internally, the screen may be turned on slightly for the PDP product. This phenomenon may continue for more than 1 hour until the software upgrade is complete.
- Alternative Software (backup): Displays the software version downloaded through By Online. During the software upgrading, When the Upgrade will discontinue from last step, this function be activated.

#### **HD Connection Guide**

Refer to this information when connecting external devices to the TV.

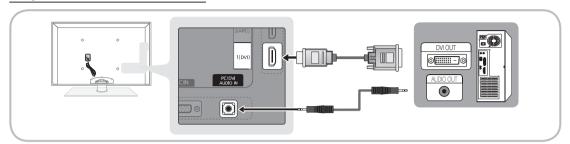
## Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centres, and how to download products and software.

## Advanced Features

## Connecting to a PC

## Using an HDMI/DVI Cable / a D-sub Cable



#### Display Modes (D-Sub and HDMI/DVI Input)

Optimal resolution is 1920 X 1080 @ 60 Hz.

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA CVT	720 x 576	35.910	59.950	32.750	-/+
	1152 x 864	53.783	59.959	81.750	-/+
	1280 x 720	56.456	74.777	95.750	-/+
	1280 x 960	75.231	74.857	130.000	-/+
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1280 x 720	45.000	60.000	74.250	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 800	62.795	74.934	106.500	-/+
	1280 x 960	60.000	60.000	108.000	+/+
	1360 x 768	47.712	60.015	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1440 x 900	70.635	74.984	136.750	-/+
	1600 x 1200	75.000	60.000	162.000	+/+
	1680 x 1050	65.290	59.954	146.250	-/+
VESA GTF	1280 x 720	52.500	70.000	89.040	-/+
	1280 x 1024	74.620	70.000	128.943	-/-
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+/+

## NOTE

- For HDMI/DVI cable connection, you must use the HDMI IN 1(DVI) jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG(Sync On Green) is not supported.

## Advanced Features

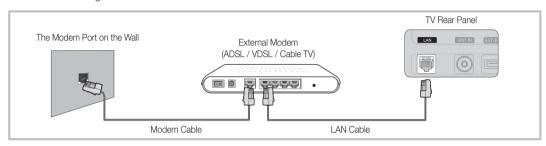
#### **Network Connection**

You can set up your TV so that it can access the Internet through your local area network (LAN) using a wired or wireless connection.

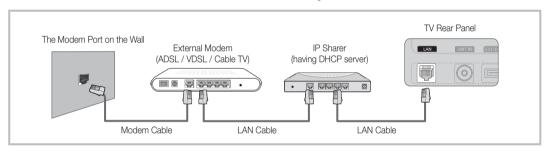
### Connecting to a Wired Network

You can attach your TV to your LAN using cable in three ways:

 You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an external modern using a Cat 5 cable. See the diagram below.



You can attach your TV to your LAN by connecting the LAN port on the back of your TV to a IP Sharer which is connected
to an external modern. Use Cat 5 cable for the connection. See the diagram below.



• Depending on how your network is configured, you may be able to attach your TV to your LAN by connecting the LAN port on the back of your TV directly to a network wall outlet using a Cat 5 cable. See the diagram below. Note that the wall outlet is attached to a modem or router elsewhere in your house.



If you have a Dynamic Network, you should use an ADSL modem or router that supports Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your TV needs to access the Internet so you don't have to enter them manually. Most home networks are Dynamic Networks.

Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually on your TV's Cable Setup Screen when you set up the network connection. To get the IP address, subnet mask, gateway, and DNS values, contact your Internet Service Provider (ISP). If you have a Windows computer, you can also get these values through your computer.

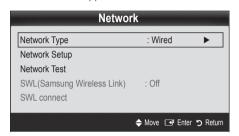
You can use ADSL modems that support DHCP if your network requires a Static IP address. ADSL modems that support DHCP also let you use Static IP addresses.

## **Network Setup (Auto)**

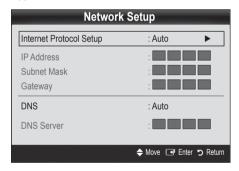
Use the Automatic Network Setup when connecting your TV to a network that supports DHCP. To set up your TV's cable network connection automatically, follow these steps:

#### How to set up automatically

- 1. Connect your TV to your LAN as described in the previous section.
- Turn on your TV, press the MENU button on your remote, use the ▲ or ▼ button to select Setup, and then press the ENTER → button.
- 3. Use the ▲ or ▼ button to select Network in the Setup menu, and then press the ENTER button. The Network screen appears.



- 4. On the Network screen, select Network Type.
- 5. Set Network Type to Wired.
- Select Network Setup. The Network Setup screen appears.



- 7. Set Internet Protocol Setup to Auto.
- Auto acquires and enters the needed Internet values automatically.
- When done, press the RETURN button on your remote.
- 10. Select Network Test to check the Internet connectivity.
- 11. If the Network Function has not acquired the network connection values, go to the directions for Manual.

## Network Setup (Manual)

Use the Manual Network Setup when connecting your TV to a network that requires a Static IP address.

#### Getting the Network Connection Values

To get the Network connection values on most Windows computers, follow these steps:

- 1. Right click the Network icon on the bottom right of the screen.
- In the pop-up menu that appears, click Status.
- 3. On the dialog that appears, click the Support tab.
- On the Support Tab, click the Details button. The Network connection values are displayed.

#### How to set up manually

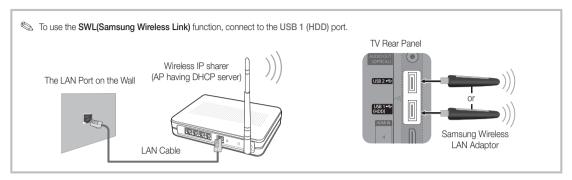
To set up your TV's cable network connection manually, follow these steps:

- 1. Follow Steps 1 through 6 in the "How to set up automatically" procedure.
- 2. Set Internet Protocol Setup to Manual.
- 3. Press the ▼ button on your remote to go to the first entry field.
- 4. Enter the IP Address, Subnet Mask, Gateway, and **DNS Server** values. Use the number buttons on your remote to enter numbers and the arrow buttons to move from one entry field to another.
- 5. When done, press the RETURN button on your remote.
- 6. Select Network Test to check the Internet connectivity.

## Advanced Features

### Connecting to a Wireless Network

To connect your TV to your network wirelessly, you need a wireless router or modern and a Samsung Wireless LAN Adaptor (WIS09ABGN, WIS09ABGN2, WIS10ABGN), which you connect to your TV's back or side panel USB jack. See the illustration below.



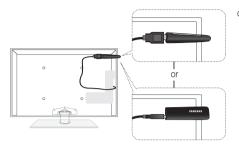
Samsung's Wireless LAN adaptor is sold separately and is offered by select retailers, Ecommerce sites and Samsungparts. com. Samsung's Wireless LAN adaptor supports the IEEE 802.11A/B/G and N communication protocols. Samsung recommends using IEEE 802.11N. When you play the video over a IEEE 802.11B/G connection, the video may not play smoothly.

#### **™** NOTE

- You must use the "Samsung Wireless LAN Adaptor" (WIS09ABGN, WIS09ABGN2, WIS10ABGN) to use a wireless network.
- Samsung's Wireless LAN adaptor is sold separately. The Samsung Wireless LAN adaptor is offered by select retailers. Ecommerce sites and Samsungparts.com.
- To use a wireless network, your TV must be connected to a wireless IP sharer. If the wireless IP sharer supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.
- If you apply a security system other than the systems listed blow, it will not work with the TV.
- If Pure High-throughput (Greenfield) 802.11N mode is selected and the Encryption type is set to WEP, TKIP or TKIP-AES (WPS2Mixed) for your AP, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.
- If your AP supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- If your router, modem, or device isn't certified, it may not connect to the TV via the "Samsung Wireless LAN Adaptor."
- Connection Methods: You can setup the wireless network connection six ways.
  - Samsung Auto Configuration
  - PBC (WPS)
  - Auto Setup (Using the Auto Network Search function)
  - Manual Setup
  - SWL(Samsung Wireless Link)
  - Ad-Hoc
- The Samsung Wireless LAN Adaptor may not be recognized or work properly when connecting via a USB hub or via a USB extension cable other than the one available from Samsung.

#### Notice

The picture may appear corrupted or have static for some channels when the TV is connected to the Samsung Wireless LAN Adaptor. In such a case, connect the Samsung Wireless LAN Adapter using a USB cable in a place that is not affected by radio interference.



The Samsung Wireless LAN Adapter should be installed in an interference-free area in order to avoid interference between the adapter and tuner.

Method: Connect via an extension cable

## Network Setup (Samsung Auto Configuration)

This function is available in APs (Access Points) that support Samsung Auto Configuration. If your AP does not, you can connect through PBC (WPS), auto, or manually.

- This function is available when SWL(Samsung Wireless Link) is set to Off.
- You can check for equipment that supports Samsung Auto Configuration on www.samsung.com.

#### How to set up using Samsung Auto Configuration

- 1. Place the AP and TV next to each other and turn them. on
  - Because the booting times of applications differ, you may have to wait for approximately 2 minutes.
  - If the LAN cable connected the WAN port of AP during Samsung Auto Configuration, you are able to complete until internet connection test. If you do not connect. Samsung Auto Configuration will check only device connecting of AP (Not check internet).
- 2. After 2 minutes, connect the Samsung Wireless LAN Adaptor to the TV. When the Samsung Wireless LAN Adaptor is established, the pop-up window appears.
- 3. As soon as a connection is established, place the AP in parallel with the Samsung Wireless LAN Adaptor giving a gap no larger than 25cm.

- 4. Wait until the connection is automatically established.
  - If Samsung Auto Configuration does not connect your TV to your AP, a pop-up window appears on the screen notifying you of the failure. Reset the AP, and then try again. If the connection fails again, choose one of the other connection setup methods, PBC (WPS), auto, or manual.
- 5. After the connection is established, locate the sharer at the desired location.
  - If the AP settings have been changed or it is the first time you use the new AP after purchase, you need to set up again beginning from Step 1.

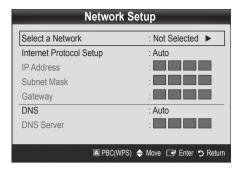
## Network Setup (PBC (WPS))

#### How to set up using PBC (WPS)

If your router has a PBC (WPS) button, follow these steps:

- 1. Connect your TV to your LAN as described in the previous section.
- 2. Turn on your TV, press the MENU button on your remote, use the ▲ or ▼ button to select Setup, and then press the ENTER button.
- 3. Use the ▲ or ▼ button to select Network in the Setup menu, and then press the ENTER - button.
- 4. On the **Network** screen, select **Network Type**.
- 5. Set Network Type to Wireless.
- 6. Select Network Setup. The Network Setup screen appears.

## Advanced Features



- 7. Press the Red button on your remote.
- Press the PBC (WPS) button on your router within 2 minutes. Your TV player automatically acquires all the network setting values it needs and connects to your network.
- After the network connection is set up, press the RETURN button to exit the Network Setup screen.

## **Network Setup (Auto)**

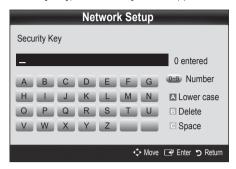
Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network. If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the setup process.

#### How to set up automatically

To set up the wireless connection automatically, follow these

- 1. Follow Steps 1 through 6 in the "How to set up using PBC (WPS)" (p. 31).
- Press the ▼ button to select Internet Protocol Setup. and then press the ENTER → button. Press the ▲ or ▼ button to select Auto, and then press the ENTER button.
- 3. Press the ▲ button to go to Select a Network, and then press the ENTER button. The Network function searches for available wireless networks. When done, it displays a list of the available networks.
- 4. In the list of networks, press the ▲ or ▼ button to select a network, and then press the ENTER button.
  - If the AP is set to Hidden (Invisible), you have to select Add Network and enter the correct Network Name (SSID) and Security Key to establish the connection.

- 5. If the Security/PIN pop-up appears, go to Step 6. If the Network Connecting Screen appears, go to Step 10.
- 6. Press the ▲ or ▼ button to select Security or PIN. For most home networks, you would select Security (for Security Key). The Security Screen appears.



- 7. On the Security screen, enter your network's Pass Phrase.
  - You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.
- 8. To enter the Pass Phrase, follow these general directions:
  - Press the number buttons on your remote to enter numbers.
  - Use the direction buttons on your remote to move from button to button on the Security Key screen.
  - Press the Red button to change case or display symbols/characters.
  - To a enter letter or symbol, move to the letter or symbol, and then press the ENTER button.
  - To delete the last letter or number you entered, press the Green button on your remote.
- 9. When done, press the Blue button on your remote. The Network Connecting screen appears.
- 10. Wait until the connection confirmation message is displayed, and then press the ENTER button. The Network Setup screen re-appears.
- 11. To test the connection, press the RETURN button to select Network Test, and then press the ENTER button.

## Network Setup (Ad-Hoc)

You can connect to a mobile device without an access point through the "Samsung Wireless LAN Adaptor" by using a peer to peer network.

This function is available when SWL(Samsung Wireless Link) is set to Off.

#### How to connect to new Ad-hoc device

- Follow Steps 1 through 6 in the "How to set up using PBC (WPS)" (p. 31).
- Choose Select a Network. A list of devices/networks appears.
- 3. While in the device list, press the Blue button on the remote.
  - The message Ad-hoc is a direct Wi-Fi connection with cell phone or PC. The existing network system may have limited functionality. Do you want to change the network connection? is displayed.
- 4. Input the generated Network Name (SSID) and Security Key into the device you want to connect.

#### How to connect an existing Ad-hoc device

- Follow Steps 1 through 6 in the "How to set up using PBC (WPS)" (p. 31).
- Choose Select a Network. The Device/Network list appears.
- 3. Select the device you want in the Device list.
- If security key is required, input the security key.
  - If network doesn't operate normally, check the Network Name (SSID) and Security Key again. An incorrect Security Key may cause a malfunction.

## Network Setup (Manual)

If the other methods do not work, you need to enter the Network setting values manually.

#### Getting the Network Connection Values

To get the Network connection values on most Windows computers, follow these steps:

- 1. Right click the Network icon on the bottom right of the screen.
- 2. In the pop-up menu, click Status.
- 3. On the dialog that appears, click the Support tab.
- 4. On the Support tab, click the Details button. The Network settings are displayed.

#### How to set up manually

To enter the Network connection values manually, follow these steps:

- 1. Follow Steps 1 through 6 in the "How to set up using PBC (WPS)" (p. 31).
- 2. Press the ▼ button to select Internet Protocol Setup, and then press the ENTER button. Press the A or ▼ button to select **Manual**, and then press the ENTER button.
- 3. Press the ▼ button to go to the first entry field (IP Address).
- 4. Use the number buttons to enter numbers.
- 5. When done with each field, use the ▶ button to move successively to the next field. You can also use the other arrow buttons to move up, down, and back.
- 6. Enter the IP Address, Subnet Mask, and Gateway values.
- 7. Press the ▲ or ▼ button to go to DNS.
- 8. Press the ▼ button to go to the first DNS entry field. Enter the numbers as above.
- 9. When done, press the ▲ button to go to Select a Network. Select your network, and then press the ENTER button.
- 10. Go to Step 4 in the "How to set up automatically" (p. 32), and follow the directions from that point on.

## Advanced Features

## SWL(Samsung Wireless Link)

This function lets you connect a Samsung device that supports the PBC (WPS) to your TV. You can connect devices to the TV even if a sharer is not connected to the TV.

- To use the Internet@TV, the AP (access point) must be connected to the wireless network.
- If a Samsung Wireless LAN Adaptor is connected to the USB 2 port, the network may not operate normally. We recommend to connecting it to the USB 1 (HDD) port.
- Only sharers using the 2.4 Ghz band are supported. Sharers using the 5 Ghz band are not supported.

#### SWL connect

You can directly connect a device that supports the PBC (WPS) to the TV.

This function is available when SWL(Samsung Wireless Link) is set to On.

#### How to connect Samsung Wireless Link

For the procedures to establish a connection, refer to the followina:

- Follow Steps 1 through 5 in the "How to set up using PBC (WPS)" (p. 31).
- Select SWL(Samsung Wireless Link) by using the ▼ button and press the ENTER button to turn it On.
- 3. Select SWL connect by using the ▼ button and press the ENTER → button.
- 4. If the "Press the PBC button on the PBC(WPS) supported device to connect within 120 seconds." message appears, press the PBC button on the device to connect.
  - For more information, refer to the wireless network setup manual of the device to be connected.
- 5. If the device is connected properly to the TV after starting count on message box then message box will be disappeared automatically.
  - If the connection fails, please retry after 2 minutes.

#### If Your TV Fails to Connect to the Internet

Your TV may not be able to connect to the Internet because your ISP has permanently registered the MAC address (a unique identifying number) of your PC or modem, which it then authenticates each time you connect to the Internet as a way of preventing unauthorized access. As your TV has a different MAC address, your ISP can not authenticate its MAC address, and your TV can not connect.

To resolve this problem, ask your ISP about the procedures required to connect devices other than a PC (such as your TV) to the Internet.

If your Internet service provider requires an ID or password to connect to the Internet, your TV may not be able to connect to the Internet. If this is the case, you must enter your ID or password when connecting to the Internet.

The internet connection may fail because of a firewall problem. If this is the case, contact your Internet service

If you cannot connect to the Internet even after you have followed the procedures of your Internet service provider, please contact Samsung Electronics at 1-800-SAMSUNG.

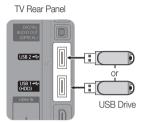
#### Media Play





## Connecting a USB Device

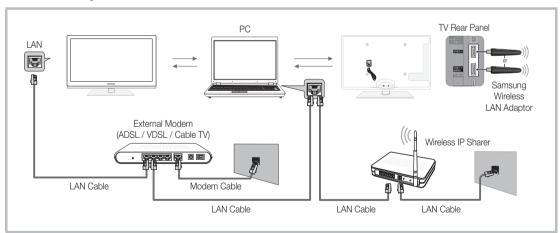
- 1. Turn on your TV.
- Connect a USB device containing recorded tv, photo, music and/or movie files to the USB 1 (HDD) or USB 2 jack on the side of the TV.
- 3. When USB is connected to the TV, popup window appears. Then you can select Media Play.



## Connecting to the PC through network

You can play pictures, music and videos saved on your PC through a network connection in the Media Play mode.

陷 If you use **Media Play** through saved file on your PC, you should download "PC Share Manager" and users manual from "www.samsung.com."



- 1. For more information on how to configure your network, refer to "Network Connection" (p. 28).
  - You are recommended to locate both TV and PC in same subnet. The first 3 parts of the subnet address of the TV and the PC IP addresses should be the same and only the last part (the host address) should be changed. (e.g. IP Address: 123.456.789.\*\*)
- 2. Using a LAN cable, connect between the external modern and the PC onto which the Samsung PC Share Manager programme will be installed.
  - You can connect the TV to the PC directly without connecting it through a Sharer (Router).

## Advanced Features

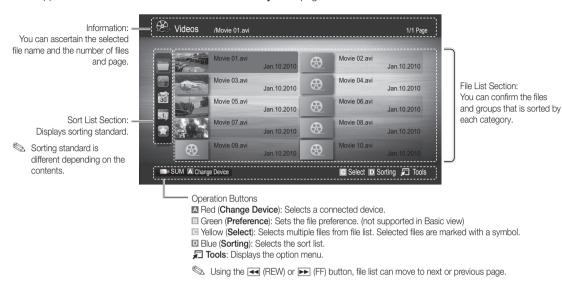
- No supported functions when connecting to the PC through network:
  - The Background Music and Background Music Setting functions.
  - Sorting files by preference in the Photos, Music, and Videos folders.
  - The (REW) or ► (FF) button while a movie is playing.
- The Divx DRM, Multi-audio, embedded caption does not supported.
- Samsung PC Share manager should be permitted by the firewall programme on your PC.
- When you use **Media Play** mode through a network connection, According to functions of the provided server:
  - The sorting method may vary.
  - The scene search function may not be supported.
  - The Play Continuously function, which resumes playing of a video, may not be supported.
    - The Play Continuously function does not support multiple users. (It will have only memorised the point where the
      most recent user stopped playing.)

  - You may experience file stuttering while playing a video in Media Play through a network connection.
- It might not work properly with unlicenced multimedia files.
- Need-to-Know List before using Media Play
  - MTP (Media Transfer Protocol) is not supported.
  - The file system supports FAT16, FAT32 and NTFS.
  - · Certain types of USB Digital camera and audio devices may not be compatible with this TV.
  - Media Play only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported). Devices should be connected directly to the TV's USB port.
  - Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data.
     SAMSUNG is not responsible for any data file damage or data loss.
  - · Connect a USB HDD to the dedicated port, USB 1 (HDD) port.
  - Do not disconnect the USB device while it is loading.
  - The higher the resolution of the image, the longer it takes to display on the screen.
  - The maximum supported JPEG resolution is 15360X8640 pixels.
  - For unsupported or corrupted files, the "Not Supported File Format" message is displayed.
  - If the files are sorted by Basic View, up to 1000 files can be displayed in each folder.
  - MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation of content, the distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
  - If more than 2 PTP devices are connected, you can only use one at a time.
  - If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.
  - If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
  - If the TV has been no input during time set in Auto Protection Time, the Screensaver will run.
  - The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.
  - · If a USB extension cable is used, the USB device may not be recognized or the files on the device may not be read.
  - If a USB device connected to the TV is not recognized, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
  - If a file deleted from the PC is still found when Media Play is run, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

## Screen Display

Move to the file you desired using the up/down/right/left buttons and then press the ENTER → or ► (Play) button. The file is played.

Supports the View Devices and Home in Media Play homepage.



## Recorded TV

To use the recording or Timeshift Mode function, the connected USB device must be available for recording. **Device format** is recommended to use USB HDD.

🖎 During the Device formatting, do not disconnect the device while formatting is in progress. If you format the device, all files will be deleted.

🖎 Before formatting your device to the tv, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.

#### Playing Recorded TV Programme

- 1. Press the ◀ or ▶ button to select Recorded TV, then press the ENTER button in the Media Play menu.
- 2. Press the </

  /▶/▲/▼ button to select the desired file in the file
- 3. Press the ENTER → button or ► (Play) button.
  - The selected file is displayed on the top with its playing time.
  - During playing the recorded TV programme, you can search using the ◀ and ▶ button.

## **Operation Buttons**

Green (Section Repeat): You can set up the fuction to repeat some section. You can also watch some section you want to.



## Using the Timeshift Mode function TOOLS 7

If you missed a live broadcast, you can see from the recorded broadcast using this feature.

When the **Timeshift Mode** is set to **Auto**, the TV stores the channel you watch currently to record automatically.

When the Timeshift Mode is set to Manual, if you press the 🕞 (Play) button, the TV stores the channel from the point of view you want to record.

## **™** NOTE

- Recorded videos are DRM (digital rights management) protected and cannot be played on a PC or other TVs, nor can they be played when the main board of the TV is changed.
- · Data broadcasts cannot be recorded.
- The availability of both recording and the **Timeshift Mode** function may differ depending on picture quality and the free space on the hard disk drive.
- If you press the ▲ or ▼ button, you can see the current channel being on air, or can see the start point the recorded broadcast.
- The **Timeshift Mode** operates for a maximum of 90 minutes.
- After the Timeshift Mode function has run for the maximum time, the time information will be fixed to "00:00:00."
   Note that if you have paused the recording the TV will automatically resume playback.
- · If the 5% free memory space limit of the USB storage device is reached, the current recording process will be closed.
- When recording is performed by both the PVR (Personal Video Recorder) function and a device that supports the HDMI-CEC feature, recording by the PVR function takes precedence.
- During a playback or the Timeshift Mode, the picture will be displayed according to the display settings of the TV.
- · If you change the input source during recording, the screen will go blank until the change is completed.
- An application which supports neither the recording nor the Timeshift Mode function will close automatically if you
  try to use it during either function.
- A message may appear in front of the application window indicating that the recording or the Timeshift Mode function is closed.
- Timeshift Mode function is not supported for radio channels.
- The recording and the Timeshift Mode functions are disabled for channels locked with Child Lock.
- If the USB device has failed the Device Performance Test, the USB device must go through the Device Format and Device Performance Test again before you record with the Guide or Channel Manager.
- The recording and Timeshift Mode functions can only be used with a USB storage device that completed the Device Performance Test.
- If you attempt the recording or Timeshift Mode function with a device that did not have the Device Performance Test, the function will not start.
- If you press (REC) on the remote control while the **Channel Manager** screen is being displayed or record with **Timer Recording**, the TV may start or stop recording 1 or 2 seconds later than you intended due to the time needed to process the command.
- If a USB device dedicated to recording is connected, existing Timeshift Mode or recording files that were saved abnormally will automatically be deleted.
- If you switch to external input mode during recording, the recording will continue but the (REC) button will be disabled.
- If any function that turns off the TV (Sleep Timer, Off timer, etc.) is set for a time that conflicts with recording, the TV will be turned off once the recording is complete.

## Videos

## Playing Video

- 1. Press the ◀ or ▶ button to select Videos, then press the ENTER → button in the Media Play menu.
- 2. Press the **◄/▶/▲/▼** button to select the desired file in the file list.
- 3. Press the ENTER → button or ► (Play) button.
  - The selected file is displayed on the top with its playing time.
  - If video time information is unknown, play time and progress bar are not displayed.
  - During playing the video, you can search using the ◀ and ▶ button.

In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.

• Supported Subtitle Formats

Name	File extension	Format	
MPEG-4 time-based text	.ttxt	XML	
SAMI	.smi	HTML	
SubRip	.srt	string-based	
SubViewer	.sub	string-based	
Micro DVD .sub or .txt		string-based	



## • Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec	
		Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8		
		XviD	1920x1080	6 ~ 30	8		
*.avi *.mkv	AVI MKV	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	MP3 / AC3 / LPCM / ADPCM / DTS Core	
	1411.54	MPEG4 SP / ASP	1920x1080	6 ~ 30	8	TIER OWY BYO GOIG	
		Motion JPEG	800x600	6 ~ 30	8		
		Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8		
		XviD	1920x1080	6 ~ 30	8		
*.asf	ASF	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	MP3 / AC3 / LPCM / ADPCM / WMA	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	7.DI OWY WWW.	
		Motion JPEG	800x600	6 ~ 30	8		
*.wmv	ASF	Window Media Video v9	1920x1080	6 ~ 30	25	WMA	
	MP4	H.264 BP / MP / HP	1920x1080	6 ~ 30	25		
*.mp4		MP4	MPEG4 SP / ASP	1920x1080	6 ~ 30	8	MP3 / ADPCM / AAC
		XVID	1920x1080	6 ~ 30	8		
* 0	0000	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	ADDOM / AAO / LIE AAO	
*.3gp	3GPP	MPEG4 SP / ASP	1920x1080	6 ~ 30	8	ADPCM / AAC / HE-AAC	
	VRO	MPEG1	1920x1080	24 / 25 / 30	30	400 (MPEO (LPOM	
*.vro	VOB	MPEG2	1920x1080	24 / 25 / 30	30	AC3 / MPEG / LPCM	
		MPEG1	1920x1080	24 / 25 / 30	30		
*.mpg *.mpeg	PS	MPEG2	1920x1080	24 / 25 / 30	30	AC3 / MPEG / LPCM / AAC	
.iipeg		H.264	1920x1080	6 ~ 30	25		
*.ts		MPEG2	1920x1080	24 / 25 / 30	30		
*.tp	TS	H.264	1920x1080	6 ~ 30	25	AC3 / AAC / MP3 / DD+ / HE-AAC	
*.trp		VC1 1920x1080		6 ~ 30	25	112-200	

#### Other Restrictions

## NOTE

- If there are problems with the contents of a codec, the codec will not be supported.
- If the information for a Container is incorrect and the file is in error, the Container will not be able to play correctly.
- Sound or video may not work if the contents have a standard bitrate/frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.

Video Decoder	Audio Decoder
<ul> <li>Supports up to H.264, Level 4.1</li> <li>H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.</li> <li>XVID, MPEG4 SP, ASP: <ul> <li>Below 1280 x 720: 60 frame max</li> <li>Above 1280 x 720: 30 frame max</li> </ul> </li> <li>GMC is not supported.</li> <li>H.263 is not supported.</li> <li>Only Samsung Techwin MJPEG is supported.</li> </ul>	Supports up to WMA 7, 8, 9, STD WMA 9 PRO does not support 2 channel excess multi channel or lossless audio. WMA sampling rate 22050Hz mono is not supported.

## Playing recorded TV or movie file continuously (Resume Play)

If you exit the playing Recorded TV or Videos function, it can be played later from the point where it was stopped.

If you press the ENTER button (Chaptering) during playing the file, you can explore scene divided into 5 chapters you want.

If the index information is damaged or unsupported, you will not be able to use the Chaptering function.

- Select the movie file you want to play continuously by pressing the ◀ or ▶ button to select it from the file list section.
- 2. Press the P (Play) / ENTER Dutton.
- 3. Select Play Continuously (Resume Play) by pressing the Blue button. The Movie will begin to play from where it was stopped.
  - The Blue button is available when resuming play.
  - If the Cont. movie play help function is set to On in the Settings menu, a pop-up message will appear when you resume play a movie file.



## Music

## Playing Music

- Press the ◀ or ▶ button to select Music, then press the ENTER ☒ button in the Media Play menu.
- Press the ◀/▶/▲/▼ button to select the desired file in the file list
- 3. Press the ENTER → button or ► (Play) button.
  - During playing the music, you can search using the ◀ and ▶ button.
  - (REW) and ► (FF) buttons do not function during play.
- Only displays the files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.



If the sound is strange when playing MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)

Nou can create My Playlist selecting the desired music in the file, and can play My Playlist.

## **Photos**

## Viewing a Photo (or Slide Show)

- Press the ◀ or ▶ button to select Photos, then press the ENTER ➡ button in the Media Play menu.
- Press the ◀/▶/▲/▼ button to select the desired file in the file list.
- 3. Press the ENTER → button or ► (Play) button.
  - While a photo list is displayed, press the ► (Play) / ENTER → button on the remote control to start slide show.
  - All files in the file list section will be displayed in the slide show.
  - During the slide show, files are displayed in order from currently being shown.
- Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.
- The **BGM Mode** cannot be changed until the BGM has finished loading.



## Playing the Multiple Files

## Playing the selected recorded TV/video/music/photo files

- 1. Press the Yellow button in the file list to select the desired file.
- 2. Repeat the above operation to select multiple files.



- To cancel a selection, press the Yellow button again.
- To deselect all selected files, press the TOOLS button and select Deselect All.
- 3. Press the TOOLS button and select Play Selected Contents.

## Playing the recorded TV/video/music/photo file group

- 1. While a file list is displayed, move to the any file in desired group.
- 2. Press the TOOLS button and select Play Current Group.



## Media Play Additional Function

## Sorting the file list

Press the Blue button in the file list to sort the files.

Category	Operations	Recorded TV	Videos	Music	Photos
Basic View	It shows whole folder. You can view the photo by selecting the folder.	It shows whole folder. You can view the photo by selecting the folder.		~	~
Title	It sorts and displays the file title in Symbol/Number/Alphabet/Special order.	~	<b>&gt;</b>	~	~
	It sorts and displays the file by preference. You can change the file preference in the file list section using the Green button.	u can change the file preference		~	~
Matest Date	atest Date It sorts and shows files by latest date.		>		~
Earliest Date	iest Date It sorts and shows files by earliest date.		<b>&gt;</b>		~
	rtist It sorts the music file by artist in alphabetical.			~	
Album	It sorts the music file by album in alphabetical order.	· · · · · ·			
Genre	It sorts music files by the genre.		~		
Mood	It sorts music files by the mood. You can change the music mood information.			~	
Monthly	It sorts and shows photo files by month. It sorts only by month (from January to December) regardless of year.	~			~
Channel	It sorts the recorded files by channel name.	<b>~</b>			

## Recorded TV/Videos/Music/Photos Play Option menu

During playing a file, press the TOOLS button.

Category	Operation	Recorded TV	Videos	Music	Photos
Title	You can move the other file directly.		~		
Repeat Mode	You can play movie and music files repeatedly.	~	~	~	
Picture Size	You can adjust the picture size to your preference.	~	~		
Picture Setting	You can adjust the picture setting. (p. 15~21)	~	~		~
Sound Setting	You can adjust the sound setting. (p. 21, 22, 23)	~	~	~	~
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	~	~		
Audio	You can enjoy video in one of supported languages as required. The function is only enabled when stream-type files which support multiple audio formats are played.	· ·			
Audio Description	You can adjust the audio description (p. 22).	~			
Stop Slide Show / Start Slide Show	You can start or stop a slide show.			~	
Slide Show Speed	You can select the slide show speed during the slide show.			~	
Slide Show Effect	You can set various slide show effects.			~	
Background Music	You can set and select background music when watching a slide show.			~	
Zoom	You can zoom into images in full screen mode.			~	
Rotate	You can rotate images in full screen mode.				~
Home Background	You can move the file to the <b>Media Play</b> desktop.			~	
Information	You can see detailed information about the played file.		~	~	

## Settings

## Using the Setup Menu

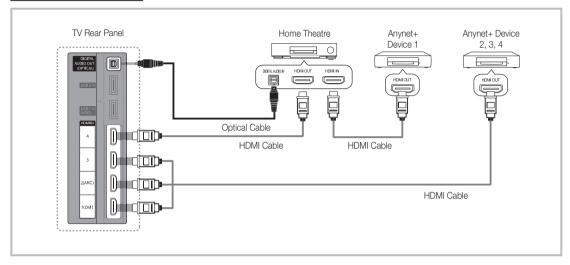
- Background Setting: Select to display the background you want.
- Cont. movie play help (Resume Play) (On / Off): Select to display the help pop-up message for continuous movie playback.
- Get the DivX® VOD registration code: Shows the registration code authorized for the TV. If you connect to the DivX web site and register the registration code with a personal account, you can download VOD registration file. If you play the VOD registration using Media Play, the registration is completed.
  - For more information on DivX® VOD, visit "www.DivX.com."
- Get the DivX® VOD deactivation code: When DivX® VOD is not registered, the registration deactivation code is displayed. If you execute this function when DivX® VOD is registered, the current DivX® VOD registration is deactivated.
- Information: Select to view information about the connected device.

## Anynet+

## What is Anynet+? TOOLS ₪

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

#### To connect to Home Theatre



- Connect the HDMI IN (1(DVI), 2(ARC), 3 or 4) jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
- 2. Connect the HDMI IN jack of the home theatre and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

## **™** NOTE

- Connect the Optical cable between the DIGITAL AUDIO OUT (OPTICAL) jack on your TV and the Digital Audio Input on the Home Theatre.
- The ARC function enables digital output of sound using the HDMI IN 2(ARC) port and can only be operated when the TV is connected to an audio receiver that supports the ARC function.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from
  the Home Theatre's Front, Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect
  the DIGITAL AUDIO OUT (OPTICAL) jack on the DVD / Satellite Box (i.e. Anynet Device 1 or 2) directly to the
  Amplifier or Home Theatre, not the TV.
- · Connect only one Home Theatre.
- You can connect an Anynet+ device using the HDMI cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

#### Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description	
View TV	Changes Anynet+ mode to TV broadcast mode.	
Device List	Shows the Anynet+ device list.	
(device_name) MENU	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.	
(device_name) INFO	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.	
Recording: (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)	
Stop Recording: (*recorder)	Stops recording.	
Receiver	Sound is played through the receiver.	

If more than one recording device is connected, they are displayed as (\*recorder) and if only one recording device is connected, it will be represented as (\*device\_name).

## Setting Up Anynet+

#### ■ Setup

Anynet+ (HDMI-CEC) (Off / On): To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On.

When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated.

Auto Turn Off (No / Yes): Setting an Anynet+ Device to turn off automatically when the TV is turned off.

The active source on the TV must be set to TV to use the Anynet+ function.

Even if an external device is still recording, it may turn off.

## Switching between Anynet+ Devices

- 1. Anynet+ devices connected to the TV are listed.
  - If you cannot find a device you want, press the Red button to refresh the list.
- 2. Select a device and press the ENTER button. You can switch to the selected device.
  - Only when you set Anynet+ (HDMI-CEC) to On in the Application menu, the Device List menu appears.
  - Switching to the selected device may take up to 2 minutes. You cannot cancel the operation during the switching operation.
  - If you have selected external input mode by pressing the SOURCE button, you cannot use the Anynet+ function.
     Make sure to switch to an Anynet+ device by using the Device List.

## Recording

You can make a recording of a TV Programme using a Samsung recorder.

- Select Recording.
  - When there are more than two recording devices
    - When multiple recording devices are connected, the recording devices are listed. Select one recording device in the **Device List**
  - When the recording device is not displayed, select **Device List** and press the Red button to search devices.
- 2. Press the EXIT button to exit.
  - You can record the source streams by selecting **Recording**: (device\_name).
  - Pressing the (REC) button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
  - Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

## Listening through a Receiver

You can listen to sound through a receiver (i.e Home Theatre) instead of the TV Speaker.

- 1. Select Receiver and set to On.
- 2. Press the EXIT button to exit.
  - If your receiver supports audio only, it may not appear in the device list.
  - The receiver will work when you have properly connected the optical in jack of the receiver to the DIGITAL AUDIO OUT (OPTICAL) jack of the TV.
  - When the receiver (i.e Home Theatre) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV (aerial) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the receiver.

## NOTE

- You can only control Anynet+ devices using the TV remote control, not the buttons on the TV.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.

## Using the ARC function

You can listen to sound through a receiver connected HDMI cable without the need for a separate optical cable.

- 1. Select Receiver and set to On.
- 2. Press the EXIT button to exit.
  - To use the ARC function, a receiver which supports the HDMI-CEC and ARC features must be connected to the HDMI IN 2(ARC) port.
  - To disable the ARC function, set the Receiver to Off. Even if the TV transmits the ARC signal continuously, the receiver will be blocked from receiving the signal.

## Troubleshooting for Anynet+

Problem	Possible Solution	
Anynet+ does not work.	Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. Connect only one receiver (home theatre). Check if the Anynet+ device power cord is properly connected. Check the Anynet+ device's Video/Audio/HDMI cable connections. Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. Check whether the TV remote control is in TV mode. Check whether it is Anynet+ exclusive remote control. Anynet+ doesn't work in certain situations. (Searching channels, operating Media Play or Plug & Play (Initial setup), etc.) When connecting or removing the HDMI cable, please make sure to search devices again or turn your TV off and on again. Check if the Anynet+ Function of Anynet+ device is set on.	
I want to start Anynet+.	Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu.     Press the TOOLS button to display the Anynet+ menu and select a menu you want.	
I want to exit Anynet+.	Select View TV in the Anynet+ menu.     Press the SOURCE button on the TV remote control and select a device other than Anynet+ devices.     Press P ✓/∧, and PRE-CH to change the TV mode. (Note that the channel button operates only whe tuner-embedded Anynet+ device is not connected.)	
The message "Connecting to Anynet+ device" appears on the screen.	You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.      Use the remote control when the Anynet+ setting or switching to view mode is complete.	
The Anynet+ device does not play.	You cannot use the play function when Plug & Play (Initial setup) is in progress.	
The connected device is not displayed.	Check whether or not the device supports Anynet+ functions. Check whether or not the HDMI cable is properly connected. Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. Search Anynet+ devices again. You can connect an Anynet+ device using the HDMI cable only. Some HDMI cables may not support Anynet+ functions. If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.	
The TV Programme cannot be recorded.	Check whether the antenna jack on the recording device is properly connected.	
The TV sound is not output through the receiver.	Connect the optical cable between TV and the receiver. The ARC function enables digital output of sound using the HDMI IN 2(ARC) port and can only be operated when the TV is connected to an audio receiver that supports the ARC function.	

## Internet@TV

## Getting Started with Internet@TV



Internet@TV brings useful and entertaining contents and services directly from the web to your TV.



## **™** NOTE

- Configure the network settings before using Internet@TV. For more information, refer to "Network Connection" (p. 28).
- Unsupported fonts within the provider's content will not display normally.
- Slow responses and/or interruptions may occur, depending on your network conditions.
- English may be only supported in application depending on region.
- This feature is not available in some locations.
- If you experience a problem using a application, please contact the content provider.
- According to circumstances of the contents provider, an application's updates or the application itself may be discontinued.
- Depending on your country's regulations, some applications may have limited service or not be supported.

#### Screen Display



Recommended Applications:
Displays the recommended service by
Samsung. You are not able to add or
delete a service in this list.

Downloaded Applications: Displays the downloaded applications through the Samsung Apps.

Internet@TV Settings: Controls:

Edit and configure applications and Internet@TV settings.

- Red (Login): To log in to Internet@TV.
- Blue (Sort by): To sort the applications.
- **5** Return: To return to the previous menu.

The colour buttons may work differently depending on the application.

## Account Login

For a application with multiple account, use ◀ and ▶ to access the different account.

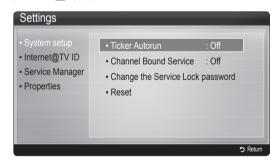


- For a more enjoyable application experience, register and log in to your account.
- Settings → Internet@TV ID → Create.
- 1. Press the Red button in Internet@TV home page.
- 2. Select desired **User account**, then press the ENTER
  - If you want create account, press Red button; then create account OSD window appear.
- 3. Enter the Password.
  - When login succeeds, **User account** will be displayed on the screen.

## Setting up Internet@TV

## Settings

Create IDs and configure Internet@TV settings from this screen. Highlight Settings using  $\blacktriangle$  and  $\blacktriangledown$  buttons and press the ENTER  $\boxdot$  button.



#### System Setup

**Ticker Autorun (Off / On):** Enable/disable ticker autorun upon powering on the TV.

- The **Ticker** application provides useful News, Weather, and Stock Market information. The **Ticker** application on **Internet@TV** must be downloaded to use this feature.
- You must have Ticker application downloaded on Internet@TV to use this feature.

Channel Bound Service (Off / On): Some channels support applications as an Internet data service, allowing you to access the Internet service while watching TV.

Only available if supported by the broadcaster.

#### Change the Service Lock password

- The default password set is "0-0-0-0."
- If you forget the password, press the following sequence of remote control buttons to reset the password to "0-0-0-0": POWER (off)  $\rightarrow$  MUTE  $\rightarrow$  8  $\rightarrow$  2  $\rightarrow$  4  $\rightarrow$  POWER (on).

**Reset**: Resets Internet@TV settings to factory default settings.

#### ■ Internet@TV ID

You can use this menu when creating, deleting the account. You can control your account including contents site's account information.

Account is only for internet@TV.

**Create:** Create an account and link it with desired applications.

## NOTE

- · Account will be made less than 10.
- Maximum number of characters is 8.

#### Manager

- Service Site: Register login information for service sites
- Change Password: Change account password.
- Delete: Delete the account.
- Service Manager: Delete and lock applications installed to Internet@TV.

Lock: Lock the application.

Accessing a locked application requires the password.

**Delete**: Delete the application.

■ Properties: Display information about Internet@TV. Use the Check the speed of your internet connection option to test your network connection.

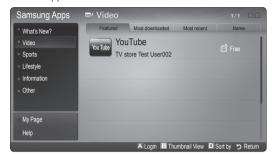
## Using the Internet@TV service

## Samsung Apps

**Samsung Apps** is a store for downloading applications to be used on Samsung TV/AV equipment.

Users can enjoy a variety of contents like videos, music, photos, games, useful information etc. using the downloaded applications.

Additional applications will be available hereafter.



Using the colour buttons with the Samsung Apps.

- A Red (Login): To log in to the internet service.
- In Green (Thumbnail View): To change the view mode.
- Blue (Sort by): To sort the widgets by Featured, Most downloaded, Most recent or Name.
- 'S Return: Moves to previous menu.

## Using the Samsung Apps by category

The following categories are available:

- What's New?: Displays newly registered applications.
- Video: Displays various video media such as movies, TV shows and short length videos.
- **Sports**: Displays various sports media such as match information, images and short length video.
- Lifestyle: Includes various lifestyle media services such as music, personal photo management tools and social networking such as Facebook and Twitter.
- Information: Includes various information services such as news, stocks and weather.
- Other: Includes other miscellaneous services.
- My Page: My Page offers information about already installed applications on the TV like detailed information, download contents etc. It can allows delete or lock the applications.
- Help: If you have questions about Internet@TV, check this section first.

#### **AllShare**

## **About AllShare**

AllShare connects your TV, mobile phones and other devices which are compatible through a network. On your TV, you can view call arrivals, SMS messages and schedules set on your mobile phones. In addition, you can play media contents including videos, photos and music saved on your mobile phones or the other devices (such as your PC) by controlling them on the TV via the network. Additionally, you can use your TV as a monitor for your mobile when browsing a web page.

Sor more information, visit "www.samsung.com" or contact the Samsung call centre. Mobile devices may need additional software installation. For details, refer to each device's user's quide.

## Setting Up AllShare

## Setup

- Message (On / Off): Enables or disables the message function (for call arrivals, SMS messages and schedules set on your mobile phones).
- Media (On / Off): Enables or disables the media function. When the media function is on, it plays videos, photos and music from a mobile phone or other device that supports AllShare.
- ScreenShare (On / Off): Enables or disables the ScreenShare function for using mobile phone as a remote control.
- TV name: Sets the TV name so you can find it easily on a mobile device.
  - If you select **User Input**, you can type on the TV using the OSK (On Screen Keyboard).

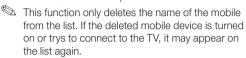


## Message / Media / ScreenShare

Shows a list of mobile phones or connected devices which have been set up with this TV for using the Message. Media, or ScreenShare function.



- The **Media** function is available in all mobile devices which support AllShare.
- Allowed / Denied: Allows/Blocks the mobile phone.
- **Delete:** Deletes the mobile phone from the list.



## Using the Message Function

Using this function, you view call arrivals, SMS messages and schedules set on the mobile phone through the alarm window while watching TV.



- To disable the alarm window, set Message to Off in Setup of AllShare.
- If OK is selected, or if OK is not selected after the message has appeared three times, the message will be deleted. The message is not deleted from the mobile phone.
- · The alarm window can be displayed while using some applications such as Media Play etc. To view the contents of a message, switch to TV viewing mode.
- When a message from an unknown mobile phone is displayed, select the mobile phone on the message menu in AllShare and select Denied to block the phone.

#### Message View

If a new SMS message arrives while you are watching TV, the alarm window appears. If you click the OK button, the contents of the message are displayed.

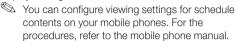
- You can configure the viewing settings for SMS messages on your mobile phones. For the procedures, refer to the mobile phone manual.
- Some types of characters may be displayed as blank or broken characters.

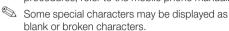
#### Call Arrival Alarm

If a call arrives while you are watching TV, the alarm window appears.

#### Schedule Alarm

While you are watching TV, the alarm window appears to display the registered event.





#### Using the Media Function

An alarm window appears informing the user that the media contents (videos, photos, music) sent from a mobile phone will be displayed on your TV. The contents are played automatically 3 seconds after the alarm window appears. If you press the RETURN or EXIT button when the alarm window appears, the media contents are not played.

## NOTE

• If the media function executes for the first time, the warning popup windows appears. Press the ENTER button to select Allow, then you can use Media function on that device.



- · To turn off the media contents transmission from the mobile phone, set Media to Off in the AllShare
- Contents may not be played on your TV depending on their resolution and format.
- The ENTER → and → / buttons may not work depending on the type of media content.
- · Using the mobile device, you can control the media playing. For details, refer to each mobile's user's auide.
- · When you want to play media contents from your PC, select the PC icon on the main display of AllShare. Then the TV's Media Play menu automatically changes. For more detail information, refer to "Media Play" (p. 35).

#### Using ScreenShare Function

Screenshare displays the same web page as provide in mobile. Using ScreenShare, you can open the various contents saved in a mobile phone. For example, the image below displays an access page for contents from a mobile. You can read the mobile's various files and view the phone book and calendar on the TV. Also, in phone book, you can make a call to other person, or can send to SMS.

## NOTE

- In Samsung mobile, ScreenShare must be installed and the supporting application must be executed; then you can use the ScreenShare function.
- Available buttons on your remote control may vary for each page.
- Doc Viewer can read files in doc format, but cannot modify them.
- The screen display may differ depending on the connected device.



#### Using your Samsung phone to control your TV Simply

Before you can use this feature, you must connect to a Samsung mobile phone that supports ScreenShare functions. When operating the TV with your mobile phone, only the POWER, - → +, P \ v and MUTE buttons are supported.

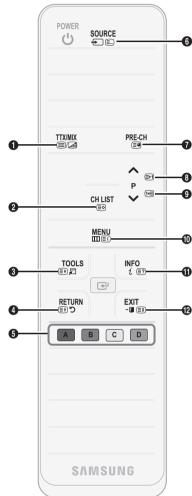
Even if you keep pressing down on a control button (channel or volume) on the mobile phone, the value will only go up or down by one unit.

## **Analogue Channel Teletext Feature**

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

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

- ♠ (Teletext on/mix/off): Activates the Teletext mode for the current channel. Press the button twice to overlap the Teletext mode with the current broadcasting screen. Press it one more time to exit teletext.
- ② (store): Stores the Teletext pages.
- 3 (size): Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of the screen, press it again. For normal display, press it once again.
- 4 (hold): Holds the display at the current page, in the case that there are several secondary pages that follow automaticially. To undo, press it again.
- 6 Colour buttons (red, green, yellow, blue): If the FASTEXT system is used by the broadcasting company, the different topics on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press the colour corresponding to the topic of vour choice. A new colourcoded page is displayed. Items can be selected in the same way. To display the previous or next page, press the corresponding coloured button.
- 6 (mode): Selects the Teletext mode (LIST/FLOF). If pressed during LIST mode. switches the mode to List save mode. In List save mode, you can save a Teletext page into a list using the (store) button.
- (sub-page): Displays the available sub-page.



- (page up): Displays the next Teletext page.
  - (page down): Displays the previous Teletext page.
- (index): Displays the index (contents) page at any time while vou are viewing Teletext.
- (reveal): Displays the hidden text (answers to quiz games, for example). To display the normal screen, press it again.
- (Ex) (cancel): Shrinks the Teletext (12) display to overlap with the current broadcast.

## Typical Teletext page

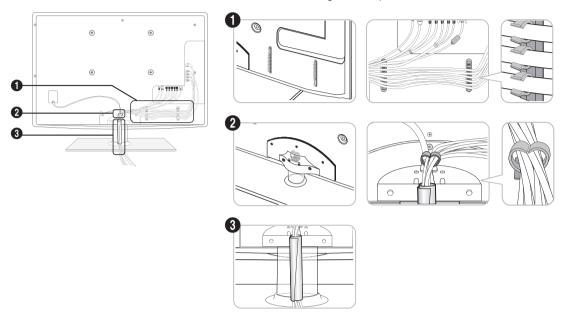


Part	Contents
Α	Selected page number.
В	Broadcasting channel identity.
С	Current page number or search indications.
D	Date and time.
Е	Text.
F	Status information. FASTEXT information.

## Assembling the Cables

## Stand Type

Enclose the cables in the Cable Tie so that the cables are not visible through the transparent stand.



## Wall-Mount Type

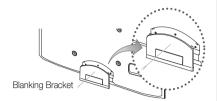


Do not pull the cables too hard when arranging them. This may cause damage to the product's connection terminals.

## **Installing the Wall Mount**

## Assembling the Blanking Bracket

When installing the TV onto a wall, attach the Blanking Bracket as shown.



#### Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket.

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

## Wall Mount Kit Specifications (VESA)

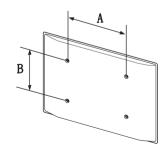
The wall mount kit is not supplied, but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

## **™** NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- · When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws that are too strongly; this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 63" model do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- Do not mount the TV at more than a 15 degree tilt.

Product Family	inches	VESA Spec. (A * B)	Standard Screw	Quantity
	42~50	400 X 400		
PDP -TV	58~63	600 X 400		4
	70~79	800 X 400	M8	
	80~	1400 X 800		



Unscrew the hole around before installing Wall-Mount on the wall.



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

## **Securing the Installation Space**

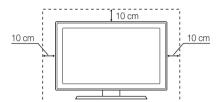
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

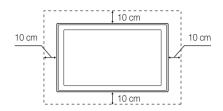
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
- The appearance may differ depending on the product.

#### Installation with a stand

#### Installation with a wall-mount





## Securing the TV to the wall



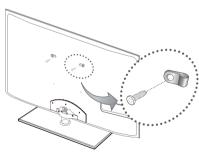
**Caution:** Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided in the included Safety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

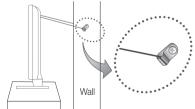
## To Avoid the TV from Falling

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



- Install the TV near to the wall so that it does not fall backwards.
- It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
- · Untie the string before moving the TV.
- 4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.





## Troubleshooting

If you have any questions about the TV, first refer to this list. If none of these troubleshooting tips apply, please visit "www. samsung.com," then click on Support, or contact the call centre listed on the back-cover of this manual.

Issues	Solutions and Explanations			
Picture Quality	First of all, please perform the <b>Picture Test</b> and confirm that your TV is properly displaying test image. (go to MENU - <b>Support - Self Diagnosis - Picture Test</b> ) (p. 26)  If the test image is properly displayed, the poor picture may caused by the source or signal.			
The TV image does not look as good as it did in the store.	If you have an analogue cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. Cable/Satellite subscribers: Try HD stations from the channel line up. Antenna connection: Try HD stations after performing Auto programme. Many HD channels are up scaled from SD(Standard Definition) contents. Adjust the Cable/Set top box video output resolution to 1080i or 720p. Make sure you are watching the TV at the minimum recommended distance based on the size and definition of the signal.			
The picture is distorted: macro block error, small block, dots, pixelization	Compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies.  Low signal level or bad quality can cause picture distortion. This is not a TV issue.  Mobile phones used close to the TV (cca up to 1m) may cause noise in picture on analogue and digital TV.			
Colour is wrong or missing.	If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.			
There is poor colour or brightness.	Adjust the Picture options in the TV menu. (go to Picture mode / Colour / Brightness / Sharpness) (p. 15)     Adjust Energy Saving option in the TV menu. (go to MENU - Picture - Eco Solution - Energy Saving) (p. 15)     Try resetting the picture to view the default picture settings. (go to MENU - Picture - Picture Reset) (p. 21)			
There is a dotted line on the edge of the screen.	If the picture size is set to Screen Fit, change it to 16:9. (p. 17) Change cable/set top box resolution.			
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.			
When changing channels, the picture freezes or is distorted or delayed.	If connected with a cable box, please try to reset the cable box. Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes.  Set the output resolution of the cable box to 1080i or 720p.			
Sound Quality	First of all, please perform the <b>Sound Test</b> to confirm that your TV audio is properly operating. (go to MENU - <b>Support - Self Diagnosis - Sound Test</b> ) (p. 26)  If the audio is OK, the sound problem may caused by the source or signal.			
There is no sound or the sound is too low at maximum volume.	Please check the volume the of external device connected to your TV.			
The picture is good but there is no sound.	Set the Speaker Select option to TV Speaker in the sound menu. (p. 22) If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV. If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV). If you are using a DVI to HDMI cable, a separate audio cable is required. If your TV has a headphone jack, make sure there is nothing plugged into it.			
The speakers are making an inappropriate noise.	Check the cable connections. Make sure a video cable is not connected to an audio input.     For antenna or cable connections, check the signal strength. Low signal level may cause sound distortion.			
No Picture, No Video				
The TV won't turn on.	Make sure the AC power cord is securely plugged in to the wall outlet and the TV. Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "The remote control does not work" below.			
The TV turns off automatically.	Ensure the Sleep Timer is set to Off in the Setup menu (p. 23).     If your PC is connected to the TV, check your PC power settings.     Make sure the AC power cord is plugged in securely to the wall outlet and the TV.     When watching TV from an antenna or cable connection, the TV will turn off after 10 ~ 15 minutes there is no signal.			

Issues	Solutions and Explanations
There is no picture/Video.	Check cable connections (remove and reconnect all cables connected to the TV and external devices).  Set your external devices' (Cable/Set top Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.  Make sure your connected devices are powered on.  Be sure to select the TV's correct source by pressing the SOURCE button on the TV remote.
RF(Cable/Antenna) Connection	
The TV is not receiving all channels.	Make sure the Antenna cable is connected securely.     Please try Plug & Play (Initial setup) to add available channels to the channel list. Go to MENU - Setup - Plug & Play (Initial setup) and wait for all available channels to be stored (p. 7).     Verify the Antenna is positioned correctly.
The picture is distorted: macro block error small block, dots, pixelization	<ul> <li>Compression of video contents may cause picture distortion, especially with fast moving pictures such as sports and action movies.</li> <li>A low signal can cause picture distortion. This is not a TV issue.</li> </ul>
PC Connection	
A "Mode Not Supported" message appears.	Set your PC's output resolution and frequency so they match the resolutions supported by the TV (p. 27).
"PC" is always shown on the source list, even if a PC is not connected.	This is normal; "PC" is always shown on the source list, regardless of whether a PC is connected.
The video is OK but there is no audio.	If you are using a HDMI connection, check the audio output setting on your PC.
Network Connection (Depending on Models	s)
Wireless network connection failed.	<ul> <li>Samsung Wireless USB dongle is required to use a wireless network.</li> <li>Make sure the Network Connection is set to Wireless (p. 30).</li> <li>Make sure the TV is be connected to a wireless IP sharer (router).</li> </ul>
Recording / Timeshift	
The USB device is not recognized or a Device Format, Checking Device or Device Performance Test fails.	See the manual for the USB device to check that the USB device supports recording.  If the USB device has a lock, ensure it is off.  Check that the USB device can be formatted when connected to the PC. Connect the USB to the TV and format it. (Formatting may fail intermittently.)  If a Device Performance Test or formatting failed, it means that there is a problem with the USB hardware or the performance of the USB hardware is too low.
A message prompts me to format a USB device that has been working well.	If the USB device has a lock, ensure it is off.     Recover the USB device using the recovery function in Checking Device.
The recording function does not work.	Check that a USB device is connected. Check that the channel is a recordable digital channel. If the signal is weak or does not exist, the recording function will automatically be closed. The TV will not record if the USB device has no free memory space. Check that this is not the case.
Timeshift Mode does not work.	Check that a USB device is connected. Radio channels and analogue broadcasts are not supported. Data broadcast channels are not supported. If the signal is weak or does not exist, the Timeshift Mode function will automatically be closed. Timeshift Mode cannot be performed if the USB device has no free memory space. Check that this is not the case.
A message indicates a performance test failure, and the recording and Timeshift Mode functions do not work.	These problems may occur if you use a low-capacity USB device that does not support recording.     We recommend using the USB HDD.
A scheduled recording has failed.	A scheduled recording is disabled for certain operations (formatting, performance test, error checking deleting) that access the file system of a USB device.  If there is no USB device connected, the TV will not record even if the scheduled time is reached.  The TV will not record if the USB device has no free memory space. Check that this is not the case.  If you record a channel locked with Parental lock, the PIN input window will appear when you try to play back the recording.
Several recording devices are connected but the TV stopped recording.	If multiple recording devices are connected and the device set as <b>Default Recording Device</b> has no free memory space, the recording function will be closed. Attempt recording again. The device with the most free memory space will automatically be set as <b>Default Recording Device</b> and the TV will start recording.

Issues	Solutions and Explanations
Others	
The picture won't display in full screen.	HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.     Black bars on the top and bottom will appear during movies that have aspect ratios different from your TV.     Adjust the picture size options on your external device or TV to full screen.
The remote control does not work.	<ul> <li>Replace the remote control batteries with the poles (+/-) in the right direction.</li> <li>Clean the sensor's transmission window on the remote.</li> <li>Try pointing the remote directly at the TV from 5~6 feet away.</li> </ul>
Plasma TV is making humming noise.	Plasma TVs typically make a soft humming sound. This is normal. It's caused by the electrical charges that are used to create the images on the screen.  If the humming sound is loud, you may have set the brightness on the TV too high. Try setting the brightness lower.  You can also have loud humming if the back of your Plasma TV is too close to a wall or other hard surface. Also try rerouting your connection cables.  Improper installation of wall mount can create excessive noise.
Image Retention (Burn In) Issue.	To minimize the possibility of screen burn, this unit is equipped with screen burn reduction technology. Pixel Shift technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot).
The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.	Programme the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set user manual for the SAMSUNG TV code.
A "Mode Not Supported" message appears.	Check the supported resolution of the TV, and adjust the external device's output resolution accordingly. Refer to the resolution settings on page 27 of this manual.
There is a plastic smell from the TV.	This smell is normal and will dissipate over time.
The TV <b>Signal Information</b> is unavailable in the Self Diagnostic Test menu.	This function is only available with digital channels from an Antenna / RF/Coax connection (p. 26).
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.
There are difficulties assembling the stand base.	Make sure the TV is placed on a flat surface. It is necessary to use magnetized screw driver if you cannot remove the screws from the TV.
The channel menu is greyed out. (unavailable)	The Channel menu is only available when the TV source is selected.
Your settings are lost after 30 minutes or every time the TV is turned off.	If the TV is in the <b>Store Demo</b> mode, it will reset audio and picture settings every 30 minutes. Change the settings from <b>Store Demo</b> mode to <b>Home Use</b> mode in the <b>Plug &amp; Play</b> (Initial setup) procedure. Press the SOURCE button to select <b>TV</b> mode, and go to MENU → <b>Setup</b> → <b>Plug &amp; Play</b> (Initial setup) → ENTER
You have intermittent loss of audio or video.	Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.
You see small particles when you look closely at the edge of the frame of the TV.	This is part of the product's design and is not a defect.
The PIP menu is not available.	PIP functionality is only available when you are using a HDMI, PC or components source (p. 25).
The message "Scramble signal" or "Weak Signal/No Signal" appears.	If you are using a CAM CARD (CI/CI+), check that it is installed into the common interface slot.     If there is still a problem, pull the CAM CARD out of the TV and insert it into the slot again.
You turned the TV off 45 minutes ago, and it turned on again.	It is normal. The TV operates the OTA (Over The Aerial) function itself to upgrade firmware downloaded whilst your watching TV.
There are recurrent picture/sound issues.	Check and change the signal/source.
A reaction may occur between the rubber cushion pads on the base stand and the top finish of some furniture.	To prevent this, use felt pads on any surface of the TV that comes in direct contact with furniture.

 $<sup>\</sup>ensuremath{ \ensuremath{ \begin{tabular} \$ 

## Licence



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

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To generate the registration code, locate the DivX VOD section in the device setup menu.

Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD. Pat. 7,295,673; 7,460,688; 7,519,274



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## Open Source Licence Notice

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

#### **Specifications** Panel native 1920 x 1080 @ 60 Hz **Environmental Considerations** Operating Temperature 10°C to 40°C (50°F to 104°F) Operating Humidity 10% to 80%, non-condensing Storage Temperature -20°C to 45°C (-4°F to 113°F) Storage Humidity 5% to 95%, non-condensing Analogue: B/G, D/K, L, I (Depending on your country selection) TV System Digital: DVB-T/DVB-C/DVB-T2(UK Only) Analogue: PAL, SECAM, NTSC-4,43, NTSC-3,58, PAL60 Colour/Video System Digital: MPEG-2 MP@ML. MPEG-4, H.264/AVC MP@L3, MP@L4.0, HP@L4.0 BG. OK NICAM. MPEGI Sound System HDMI IN 1 ~ 4 Video: 1080 24p. 1080p. 1080i. 720p. 576p. 576i. 480p. 480i. Audio: 2Ch Linear PCM 32/44.1/48kHz, 16/20/24bits. Analogue audio input (HDMI IN1 only) PC input (HDMI IN1 only) Stand Swivel (Left / Right) -20° ~ 20° Model Name PS50C7000 PS63C7000 Screen Size (Diagonal) 50 inches 63 inches Sound (Output) 10 W X 2 15 W X 2 Dimensions (WxDxH) 1211.6 X 35.6 X 749.3 mm Body 1493.5 X 35.6 X 909.3 mm With stand 1211.6 X 226.1 X 807.7 mm 1493.5 X 337.8 X 967.7 mm Weight Without Stand 29.2 ka 44.6 ka With Stand 24.5 kg 38 kg

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



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

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

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



## Correct disposal of batteries in this product

## (Applicable in the European Union and other European countries with separate battery return systems)

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

Design and specifications are subject to change without prior notice.

Index					
Α		F		R	
AllShare	51	Favourite Channel	13	Receiver	46
Amplify	21	Film Mode	17	Recording	46
Antenna	13	Fine Tune	15	Remote Control	6
Anynet+	44	Flesh Tone	16	Repeat Mode	43
Auto Adjustment	21	Frequency	13	RGB Only Mode	16
Auto Volume	22			Rotate	43
В		Н		S	
D		HDMI	8, 44	3	
Background Music	43	Headphones	9	Select All	14
Balance L/R	21	Home Theatre	9, 44	Self Diagnosis	26
Basic View	42			Sharpness	15
Batteries	6			Signal Information	26
Black Tone	16	la stallation Conso	50	Sleep Timer	23
Blanking Bracket	55	Installation Space	56	Slide Show	41
Brightness	15	Internet@TV	48	Software Upgrade	26
				Source List	10
C		L		Speaker Select	22
Oabla Tia	4 54	Language	24	Specifications	61
Cable Tie	4, 54	Licence	60	Standby mode	5
Change PIN	24	Lock	14	Subtitle	24
Channel Menu	13			Symbol	3
Clock	23	М			
Colour Tone	17			T	
Component	9 27	Media Play	35	Timer	23
Connecting to a PC		Melody	25	Title	42
Connecting to an Audio Device	9	Menu Transparency	25	Tools	3
5		Music	41	Troubleshooting	57
D				•	22
DIGITAL AUDIO OUT	9, 44	N		TV Speaker	22
DivX® VOD	43	Navigate	11	U	
D-sub	27	Network Connection	28		
Dynamic	15	Network Setup	29	USB Drive	26, 35
Dynamic Contrast	16			W	
E		0		V	
		ON/OFF button	6	VCR	9
Eco Sensor	15	Optimal resolution	27	Video Formats	39
Edit Name	10			Videos	39
Editing Channels	14	Р		Volume	5
Energy Saving	15				
Equalizer	21	Password	49	W	
External Speaker	22	Photos	41	Wall Mount	55
		Picture Size	17, 43	Warm	17
		PIP (Picture in Picture)	25	warm White Balance	
		Plug & Play	7	vvriile daidrice	16
		Power Indicator	5		

## **Warning! Important Safety Instructions**

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

#### CAUTION

#### RISK OF ELECTRIC SHOCK DO NOT OPEN

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

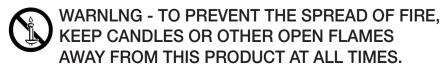


This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



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

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable
  operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
  - Give your product 10 cm (4 inch) clearance from the wall.
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place heat generating items such as candles, ashtrays, incense, flammable gas or explosive materials near the product.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet
  basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer
  immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from
  the wall outlet and disconnect the antenna or cable system.
   This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so many create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally in particular, if there are any unusual sounds or smells coming from it unplug it
  immediately and contact an authorized dealer or service centre.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  - Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- 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 substances and where it operates for 24 hours such as the airport, the train station etc.
   Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service centre.



## Wiring the Mains Power Supply Plug (UK Only)

#### IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitably approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug.

Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

#### IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows: The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

#### WARNING:

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL, OR COLOURED GREEN OR GREEN AND YELLOW.

## **Warranty Card**



#### UNITED KINGDOM

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Customer Care Centre
PO Box 17243
Edinburgh, EH11 4YB
United Kingdom
Tel: 0845 SAMSUNG (7267864) (UK & Northern Ireland)
Tel: 0818 717 100 (EIRE Only)
Fax: +44 0845 650 8080

Web: www.samsung.com

#### WARRANTY CONDITIONS

- The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and
  is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been
  defaced.
- 2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
- 3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
- **4.** This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any country other than the one for which the product was originally designed and manufactured.

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