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

### Comuniquese con SAMSUNG WORLDWIDE

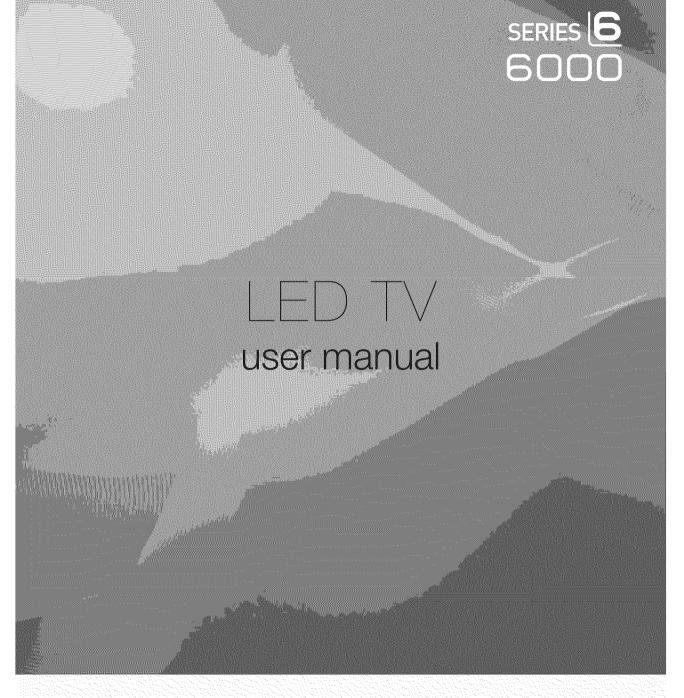
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#### Comment contacter Samsung dans le monde

Si vous avez des suggestions ou des questions concernant les produits Samsung, veuillez contacter le Service Consommateurs Samsung.

Country	Customer Care Center 🕿	Web Site	Address	
CANADA	4 900 CAMOUNC/706 7064)		Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada	
CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca	Samsung Electronique Canada Inc., Service à la Clientèle 55 Standish Court Mississauga, Ontario L5R 4B2 Canada	
U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com/us	Samsung Electronics America, Inc. 105 Challenger Road Ridgefield Park, NJ 07660-0511	





# imagine the possibilities

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

\_\_\_ Serial No.

www.samsung.com/register

Model \_\_\_\_\_





# Important Warranty Information Regarding Television Format Viewing

#### D See the warranty card for more information on warranty terms.

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on nonexpanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.

On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and duration of television formats used for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

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### SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser.

Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

For the location of a SAMSUNG Authorized Service Center, please call toll-free:

- In the United States : 1-800-SAMSUNG (1-800-726-7864)
- In Canada : 1-800-SAMSUNG

# □ Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen

• Do not display a still image on the LED panel for more than 2 hours as it can cause screen image retention. This image retention is also known as screen burn. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.



Watching the LED TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause a similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

• 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.

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# CONTENTS

Setting up Your TV  List of Features Accessories Viewing the Control Panel Viewing the Remote Control Installing Batteries in the Remote Control Viewing the menus Plug & Play Feature	3 
Connections Connecting VHF and UHF Antennas Connecting Cable TV Viewing the Connection Panel	
CHANNEL Channel Menu Managing Channels	
PICTURE         Configuring the Picture Menu         Viewing Picture-in-Picture.         Using Your TV as a Computer (PC) Display         Setting up the TV with your PC	
SOUND	23
Configuring the Sound Menu	
SETUP	

Media Play (USB)	
Connecting a USB Device	.38
■ Media Play Function ■ Sorting the Photo List	. 39 . 41
Photo List Option Menu	42
■ Viewing a Photo or Slide Show ■ Slide Show Option Menu	. 43 . 44
Sorting the Music List	46
Music List Option Menu     Playing Music	.47
Music Play option Menu	49
■ Sorting the Movie List ■ Movie List Option Menu	. 49 . 50
Playing a Movie File	.50
Movie Play Option Menu     Menu     Menu     Menu	. 53 . 54

### ANYNET<sup>+</sup>

Connecting Anynet <sup>+</sup> Devices	. 55
Setting Up Anynet <sup>+</sup> Switching between Anynet <sup>+</sup> Devices	. 56 56
#Recording	. 50
Listening through a Receiver (Home Theater)	. 57
Troubleshooting for Anynet <sup>+</sup>	. 58
InfoLink	
Using InfoLink	. 59
■ Using the Weather Service ■ Using the News Service	. 59
Using the News Service Using the Stock Service Infoline Setup	. 60
InfoLink Setup	. 61
RECOMMENDATIONS	
Troubleshooting	. 62

	-88000
Troubleshooting6	32
Installing the Stand	63
Disconnecting the Stand	63
Assembling the Cables	64 :
Wall Mount Kit Specifications (VESA)	65
Preparing before installing Wall-Mount	66
Anti-Theft Kensington Lock	66
Securing the Installation Space	66
Securing the TV to a Wall or Cabinet	37 i
Specifications	68
Dimensions	70

# □ License

SRS (O) TruSurround HD	TruSurround HD, SRS and ( ) symbols technology is incorporated under licer	ol are trademarks of SRS Labs, Inc. Ti se from SRS Labs, Inc.	ruSurround HD
	Manufactured under license from Dolt trademarks of Dolby Laboratories.	y Laboratories. Dolby and the double-	D symbol are
	DivX® Certified to play DivX® video, i	ncluding premium content.	
] Symbol		ß	7
Press	s Note	One-Touch Button	TOOL Button

# SETTING UP YOUR TV

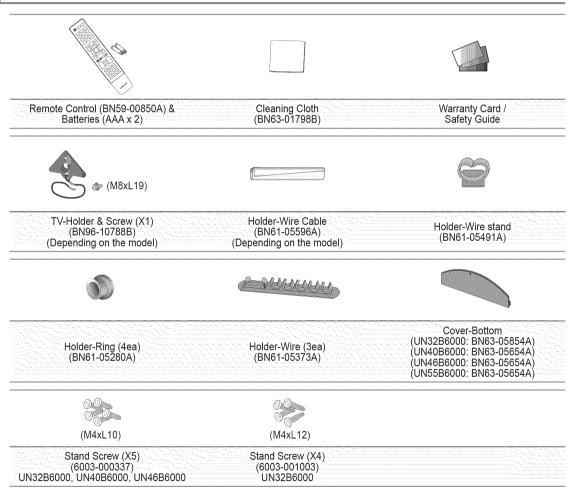
To use your TV, you first have to set it up to suit your environment.

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 in order to enhance product performance.

# **List of Features**

- Adjustable picture settings that can be stored in the TV's memory.
- Automatic timer to turn the TV on and off.
- A special sleep timer.
- Excellent Digital Interface & Networking : With a built-in HD digital tuner, nonsubscription HD broadcasts can be viewed with no Cable Box/Satellite receiver (Set-Top Box) needed.
- HDMI/DVI connection of your PC to this TV.
- Excellent Picture Quality
- SRS TruSurround HD provides a virtual surround system.
- Media Play: Allows you to play music files, pictures, and movies saved on a USB.

# Accessories



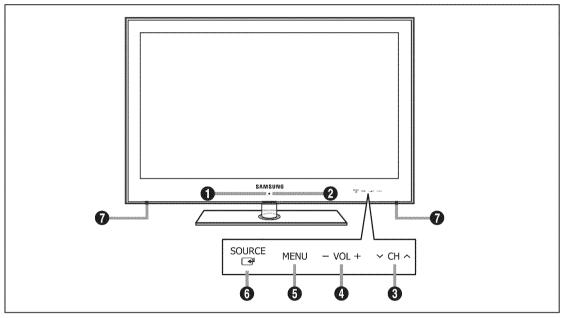
🖉 Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.

D The items color and shape may vary depending on the model.

English - 2

# **Viewing the Control Panel**

- Depending on the model.
- ${\ensuremath{\mathbb D}}$  The front panel buttons can be activated by touching them with your finger.

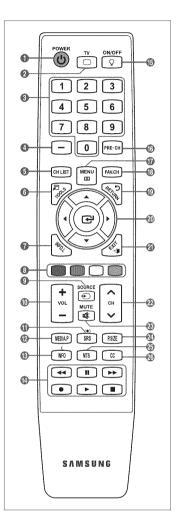


- **()** REMOTE CONTROL SENSOR: Aim the remote control towards this spot on the TV.
- O (POWER): Press to turn the TV on and off.
- ③ ∨ CH ∧: Press to change channels. In the on-screen menu, use the ∨ CH ∧ buttons as you would use the ▼ and ▲ buttons on the remote control.
- **●** VOL+: Press to increase or decrease the volume. In the on-screen menu, use the VOL+ buttons as you would use the
   **◄** and **▶** buttons on the remote control.
- **6** MENU: Press to see an on-screen menu of your TV's features.
- SOURCE ☐: Toggles between all the available input sources. In the on-screen menu, use this button as you use the ENTER button on the remote control.
- **O** SPEAKERS

# Viewing the Remote Control

- D You can use the remote control up to a distance of about 23 feet from the TV.
- $\swarrow$  The performance of the remote control may be affected by bright light.
- Depending on the model.
- POWER : Turns the TV on and off.
- **2 TV** : Selects the TV mode directly.
- ONUMERIC BUTTONS : Press to change the channel.
- Press to select additional channels (digital) being broadcast by the same station. For example, to select channel '54-3', press '54', then press '—' and '3'.
- **5** CH LIST : Used to display Channel Lists on the screen.
- **6 TOOLS** : Use to quickly select frequently used functions.
- INFO.L : Press to use the News, Stock Market and Weather Forecast information services available over Samsung's network.
- COLOR BUTTONS : Use these buttons in the Channel list, Media Play menu, etc.
- SOURCE: Press to display and select the available video sources.
- **O** -VOL+ : Press to increase or decrease the volume.
- SRS: Selects SRS TruSurround HD mode.
- MEDIA.P: Allows you to play music files, pictures, and movies.
- INFO: Press to display information on the TV screen.
- Use these buttons in the Media Play and Anynet<sup>+</sup> modes. (): This remote can be used to control recording on Samsung recorders with the Anynet<sup>+</sup> feature)

- ON/OFF : Pressing the ON/OFF : light button toggles between on and off. When the remote control is on, and a button is pressed on the remote control, the remote control buttons will be lit for a moment. (Using the remote control with the ON/OFF ight button set to On will reduce the battery usage time.)
- PRE-CH : Enables you to return to the previous channel you were watching.
- MENU : Displays the main onscreen menu.
- FAV.CH : Press to switch to your favorite channels.
- RETURN : Returns to the previous menu
- ② UP▲ / DOWN▼ / LEFT◀ / RIGHT► / ENTER 글 : Use to select on-screen menu items and change menu values.
- EXIT : Press to exit the menu.
- CH CH : Press to change channels.
- MUTE I : Press to temporarily cut off the sound.
- ② P.SIZE: Picture size selection.
- MTS: Press to choose stereo, mono or Separate Audio Program (SAP broadcast).
- CC: Controls the caption decoder.



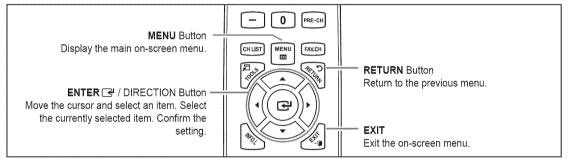
# English - 4

# **Installing Batteries in the Remote Control**

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

# Viewing the menus

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



# □ Operation the OSD (On Screen Display)

The access step may differ depending on the selected menu.

2. The main menu appears on the screen. The menu's left side has icons : Picture, Sound,

1. Press the MENU button.



 Wode
 : Standard

 ○
 Backlight
 :7

 ○
 Contrast
 :95

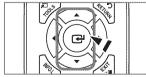
 ○
 Big/threes
 :45

 >
 Sharpnoss
 :50

 ○
 Colar
 :50

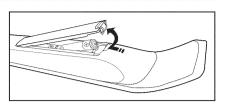
 ○
 Tint (G/R)
 : G50/R59

 .1
 Advanced Settings



3. Press the ▲ or ♥ button to select one of the icons.

Channel, Setup, Input, Application, Support.



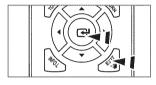
# English - 5

- 4. Then press the ENTER 🖃 button to access the icon's sub-menu.
- 5. Press the ▲ or ▼ button to select the icon's submenu.
- Press the ◄ or ➤ button to decrease or increase the value of a particular item. The adjustment OSD may differ depending on the selected menu.
- 7. Press the ENTER I button to complete the configuration. Press the EXIT button to exit.



		Mode	: Standard
Picture		<ul> <li>Backlight</li> </ul>	:7 🕨
8		Contrast	: 95
		Brightness	: 45
		Sharpness	: 50
		Color	: 50
		Tint (G/R)	: G50/R50
		Advanced Settings	
	-35	Picture Options	





# **Plug & Play Feature**

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

- 1. Press the POWER () button on the remote control.

  - Definition The message Select Language of the OSD. is displayed.
- 3. Press the ◀ or ► button to select Store Demo or Home Use, then press the ENTER I button. The message Select the Antenna source to memorize. is displayed.
  - We recommend setting the TV to Home Use mode for the best picture in your home environment.
  - Store Demo mode is only intended for use in retail environments.
  - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
- 4. Press the ▲ or ▼ button to memorize the channels of the selected connection. Press the ENTER I button to select Start.
  - Ø Air: Air antenna signal. / Cable: Cable antenna signal. / Auto: Air and Cable antenna signals.
  - In Cable mode, you can select the correct signal source among STD, HRC, and IRC by pressing the ▲, ♥, ◄ or ▶ button, then press the ENTER button. If you have Digital cable, select the cable system signal source for both Analog and Digital. Contact your local cable company to identify the type of cable system that exists in your particular area.
- 5. Press the ENTER I button to select Start. The TV will begin memorizing all of the available channels.
  - Ø To stop the search before it has finished, press the ENTER 🕑 button with Stop selected.
  - After all the available channels are stored, it starts to remove scrambled channels. The Auto program menu then reappears. Press the ENTER I button when channel memorization is complete. The message Set the Clock Mode. is displayed.
- 6. Press the ENTER I button. Press the ▲ or ▼ button to select Auto, then Press the ENTER I button. The message Set to daylight saving time. is displayed. If you select Manual, Set current date and time. is displayed.
- 7. Press the ▲ or ▼ button to select Off, On or Auto, then press the ENTER I button.
- Press the ▲ or ▼ button to highlight the time zone for your local area. Press the ENTER button. If you have received a digital signal, the time will be set automatically. If not, refer to the 'Setting the Time' instructions to set the clock. (see pages 28~29)
- 9. The description for the connection method providing the best HD screen quality is displayed. Check the description and press the ENTER 🖃 button.
- 10. The message Enjoy your TV. is displayed. When you have finished, press the ENTER I button.

#### If you want to reset this feature ...

- 1. Press the MENU button to display the menu. Press the ▲ or ▼ button to select Setup, then press the ENTER I button.
- 2. Press the ENTER I button again to select Plug & Play.
- The Plug & Play feature is only available in the TV mode.



1	2	2
	Plug & Play	
Select Language of	the OSD.	
Language	English	•

# CONNECTIONS

# **Connecting VHF and UHF Antennas**

If your antenna has a set of leads that look like the diagram to the right, see 'Antennas with 300  $\Omega$  Flat Twin Leads' below.

If your antenna has one lead that looks like the diagram to the right, see 'Antennas with 75  $\Omega$  Round Leads'.

If you have two antennas, see 'Separate VHF and UHF Antennas'.

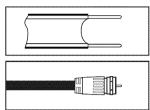
# Antennas with 300 Ω Flat Twin Leads

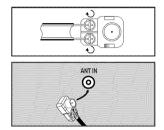
If you are using an off-air antenna (such as a roof antenna or 'rabbit ears') that has  $300\Omega$  twin flat leads, follow the directions below.

- Place the wires from the twin leads under the screws on a 300-75 Ω adapter (not supplied). Use a screwdriver to tighten the screws.
- 2. Plug the adaptor into the ANT IN terminal on the back of the TV.

#### Antennas with 75 Ω Round Leads

Plug the antenna lead into the ANT IN terminal on the back of the TV.



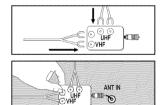




# Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires an optional combiner-adaptor (available at most electronics shops).

- 1. Connect both antenna leads to the combiner.
- 2. Plug the combiner into the ANT IN terminal on the bottom of the rear panel.



# **Connecting Cable TV**

To connect to a cable TV system, follow the instructions below.

#### Cable without a Cable Box

Plug the incoming cable into the ANT IN terminal on the back of the TV.

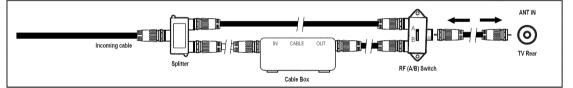
Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

#### Connecting to a Cable Box that Descrambles All Channels

- Find the cable that is connected to the ANT OUT terminal on your cable box.
   This terminal might be labeled 'ANT OUT', 'VHF OUT' or simply, 'OUT'.
- 2. Connect the other end of this cable to the ANT IN terminal on the back of the TV.

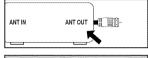
#### Connecting to a Cable Box that Descrambles Some Channels

If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a twoway splitter, an RF (A/B) switch and four lengths of RF cable. (These items are available at most electronics stores.)



- 1. Find and disconnect the cable that is connected to the ANT IN terminal on your cable box.
- 2. Connect this cable to a two-way splitter.
- 3. Connect an RF cable between the OUTPUT terminal on the splitter and the IN terminal on the cable box.
- 4. Connect an RF cable between the ANT OUT terminal on the cable box and the B-IN terminal on the RF(A/B) switch.
- 5. Connect another cable between the other OUT terminal on the splitter and the A-IN terminal on the RF (A/B) switch.
- 6. Connect the last RF cable between the OUT terminal on the RF (A/B) switch and the ANT IN terminal on the rear of the TV. After you have made this connection, set the A/B switch to the 'A' position for normal viewing. Set the A/B switch to the 'B' position to view scrambled channels. (When you set the A/B switch to 'B', you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

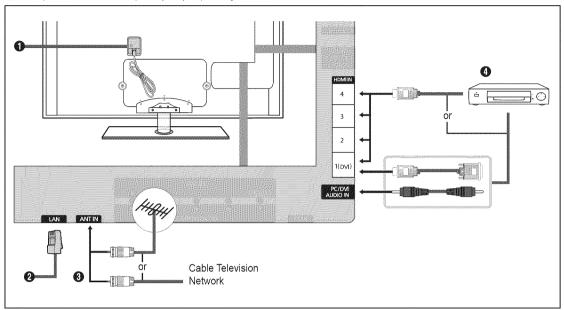






# Viewing the Connection Panel

Depending on the model.



#### O POWER INPUT

Connects the supplied power cord.

Description of the **POWER INPUT** may be different depending on its model.

#### 0 LAN

Connect a LAN cable to this port to connect to the Network.

### O ANT IN

Connects to an antenna or cable TV system.

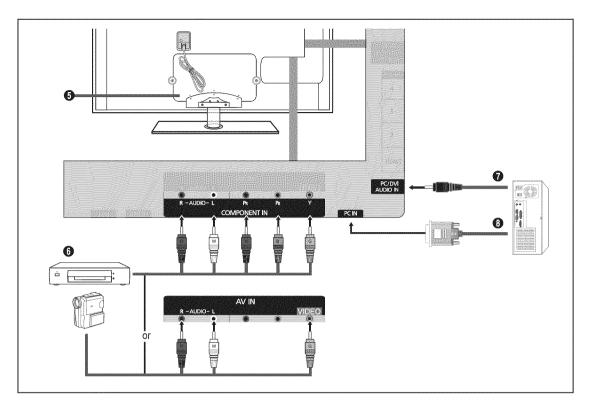
Dise an antenna cable which is smaller than 14 mm (0.55 inch).

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

Connects to the HDMI jack of a device with an HDMI output.

- $\swarrow$  No sound connection is needed for an HDMI to HDMI connection.
- Dise an HDMI cable which is smaller than 14 mm (0.55 inch).
- Ø What is HDMI?
  - HDMI(High-Definition Multimedia Interface), is an interface that enables the transmission of digital audio and video signals using a single cable.
  - The difference between HDMI and DVI is that the HDMI device is smaller in size and has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed.
- The TV may not output sound and pictures may be displayed with abnormal color when DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) supporting HDMI versions older than 1.3 are connected. When connecting an older HDMI cable and there is no sound, connect the HDMI cable to the HDMI IN 1(DVI) jack and the audio cables to the PC/DVI AUDIO IN jacks on the back of the TV. If this happens, contact the company that provided the DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) to confirm the HDMI version, then request an upgrade.
- Description of HDMI cables that are not 1.3 may cause annoying flicker or no screen display.
- Use the HDMI IN 1(DVI) jack for DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video connection and the PC/ DVI AUDIO IN jacks for audio. When using an HDMI / DVI cable connection, you must use the HDMI IN 1(DVI) jack.
- When connecting via DVI, a separate audio connection must be made. Use a 2RCA to 3.5mm miniplug cable for this purpose.

English - 10



#### KENSINGTON LOCK

The Kensington Lock (optional) is a device used to physically fix the system when used in a public place. If you want to use a locking device, contact the dealer where you purchased the TV.

Description of the Kensington Lock may be different depending on its model.

#### **O** COMPONENT IN / AV IN

Connects Component video / audio.

The COMPONENT IN jack is also used as the AV IN jack.

- Ø When connecting, match the color of the connector to the jack.
- Connect the video cable to the COMPONENT IN [Y/VIDEO] jack and the audio cable to the COMPONENT IN [R-AUDIO-L] jacks.
- If you have a 'mono' (non-stereo) VCR, use a Y-connector (not supplied) to connect to the right and left audio input jacks of the TV. Alternatively, connect the cable to the 'R' jack. If your VCR is stereo, you must connect two cables.
- When connecting to AV IN, the color of the AV IN [Y/VIDEO] jack (Green) does not match the color of the video cable (Yellow).

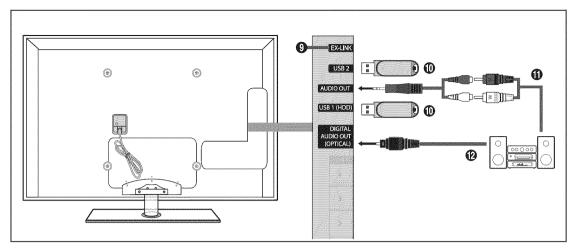
#### PC/DVI AUDIO IN

- Connect to the audio output jack on your PC.
- DVI audio input from external devices.

#### O PC IN

- Connects to the video and audio output jacks on your PC.
- D If your PC supports an HDMI connection, you can connect this to the HDMI IN 1(DVI), 2, 3 or 4 terminal.
- D If your PC supports a DVI connection, you can connect this to the HDMI IN 1(DVI) / PC/DVI AUDIO terminal.

English - 11



#### **O** EX-LINK

Connector for service only.

#### USB1(HDD) / USB2

Connector for software upgrades and Media Play, etc. You can connect to Samsung's network wirelessly using the 'Samsung Wireless LAN Adapter' (Sold separately).

- For USB HDD, use the USB1(HDD) port.
- Diright Turning on or off the TV while a USB device is connected may damage the files on the USB device.

# AUDIO OUT

Connects to the audio input jacks on your Amplifier/Home theater.

- When connecting, use the appropriate connector (sold separately).
- When an audio amplifier is connected to the AUDIO OUT jacks: Decrease the volume of the TV and adjust the volume level with the Amplifier's volume control.

#### DIGITAL AUDIO OUT (OPTICAL)

Connects to a Digital Audio component such as a Home theater receiver.

- When a Digital Audio System is connected to the **DIGITAL AUDIO OUT (OPTICAL)** jack: Decrease the volume of the TV and adjust the volume level with the system's volume control.
- 2.1CH audio is possible when the TV is connected to an external device supporting 5.1CH.
- When the Home Theater receiver is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theater receiver. When the source is a digital component such as a DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theater receiver. If you want to hear 5.1 channel audio, connect the digital audio out jack on DVD / Blu-ray player / Cable Box / Satellite receiver (Set-Top Box) directly to an Amplifier or Home Theater, not the TV.

# CHANNEL

You can configure various settings for your TV channels with features such as Auto Program, Favorite Channels, and Signal Strength.

# **Channel Menu**

#### $\hfill\square$ Antenna $\rightarrow$ 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).

Press the TOOLS button to display the Tools menu. You can also set the Antenna by selecting Tools → Switch to Cable (or Switch to Air).

# Auto Program

- Air: Air antenna signal. / Cable: Cable antenna signal. / Auto: Air and Cable antenna signals
  - When selecting the Cable TV system: Selects the cable system. **STD**, **HRC** and **IRC** identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected.
  - If a first or end of the available channels are stored, it starts to remove scrambled channels (Removing scrambled channel). The Auto program menu then reappears.
  - If you want to stop Auto Programming, press the ENTER → button. The Stop Auto Program? message will be displayed. Select Yes by pressing the ◄ or ► button, then press the ENTER → button.

#### □ Clear Scrambled Channel (digital channels only)

This function is used to filter out scrambled channels after Auto Program is completed. This process may take up to 20~30 minutes.

- Ø To stop searching scrambled channels: Press the ENTER → button to select Stop. Press the button to select Yes, then press the ENTER → button.
- This function is only available in Cable mode.

#### Channel List

For detailed procedures on using the **Channel List**, refer to the 'Managing Channels' instructions. (see pages 14~15) You can select these options by simply pressing the **CH LIST** button on the remote control.

#### □ Fine Tune (analog channels only)

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

- Ø If you do not store the fine-tuned channel in memory, adjustments are not saved.
- D '\*' will appear next to the name of fine-tuned channels.
- Ø To reset the fine tuning setting, press the ▼ button to select Reset, then press the ENTER I button.

Channel	S	Antenna	: Air	•
nel		Auto Program		
		Clear Scrambled C	hannel	
		Channel List		
		Fine Tune		

# **Managing Channels**

Using this menu, you can add / delete or set favorite channels and use the program guide for digital broadcasts.

All Channels

Shows all currently available channels.

Added Channels

Shows all added channels.

# Favorite

Shows all favorite channels.

To select the favorite channels you have set up, press the FAV.CH button on the remote control.

# Programmed

Shows all current reserved programs.

- ② Select a channel in the All Channels, Added Channels or Favorite screen by pressing the ▲ / ▼ buttons, and pressing the ENTER button. Then you can watch the selected channel.
- ${\ensuremath{\mathbb D}}$  Using the color buttons with the Channel List
  - Red (Antenna): Switches to Air or Cable.
  - Green (Zoom): Enlarges or shrinks a channel number.
  - Yellow (Select): Selects multiple channel lists. You can perform the add/delete or add to Favorite/delete from Favorite function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time. The 
    v mark appears to the left of the selected channels.
  - TOOLS (Tools): Displays the Add (or Delete), Add to Favorite (or Delete from Favorite), Timer Viewing, Channel Name Edit, Select All (or Deselect All) and Auto Program menus (The Options menus may differ depending on the situation.)
- Channel Status Display Icons
  - ✓ : A channel selected by pressing the yellow button.
  - A program currently being broadcast.
  - ♥ : A channel set as a Favorite.
  - () : A reserved program.

# Channel List Option Menu (in All Channels / Added Channels / Favorite)

- $\swarrow$  Press the **TOOLS** button to use the option menu.
- Ø Option menu items may differ depending on the channel status.
- 🛎 Add / Delete
  - You can delete or add a channel to display the channels you want.
  - Ø All deleted channels will be shown on the All Channels menu.
  - ${\ensuremath{\mathbb D}}$  A gray-colored channel indicates the channel has been deleted.
  - Image: The Add menu only appears for deleted channels.
  - You can also delete a channel from the Added Channels or Favorite menu in the same manner.



Added Channels	9 4 🙀 <i>9</i> 6	4-2 • 8 13	Air Air TV#8 Air Air Air YV#3		
Air	⊗ Anton	na 🔡Zoa	n Select	Tools	

#### Add to Favorite / Delete from Favorite

- You can set channels you watch frequently as Favorite.
- Press the TOOLS button to display the Tools menu. You can also set the add to (or delete from) Favorites by selecting Tools
  Add to Favorite (or Delete from Favorite).
- ${\ensuremath{\mathbb D}}$  The ' ${\ensuremath{\mathfrak V}}$ ' symbol will be displayed and the channel will be set as a favorite.
- Ø All favorite channels will be shown on Favorite menu.

#### Timer Viewing

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

- $\ensuremath{\textcircled{D}}$  Only memorized channels can be reserved.
- Ø You can set the channel, day, month, year, hour and minute directly by pressing the number buttons on the remote control.
- Reserving a program will be shown in the Programmed menu.
- Digital Program Guide and Viewing Reservation

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

#### Channel Name Edit (analog channels only)

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

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

#### Select All / Deselect All

- Select All: You can select all the channels in the channel list.
- Deselect All: You can deselect all the selected channels.
- Ø You can only select **Deselect All** when there is a selected channel.

#### 🛎 Auto Program

Pror detailed procedures on using the Auto Program, refer to the 'Channel Menu' instructions. (see page 13)

# **Channel List Option Menu (in Programmed)**

You can view, modify or delete a reservation.

 $\ensuremath{\textcircled{D}}$  Press the **TOOLS** button to use the option menu.

Change Info

Select to change a viewing reservation.

Cancel Schedules

Select to cancel a viewing reservation.

#### Information

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

#### Select All

Select all reserved programs.



# PICTURE

You can configure various picture options such as the picture mode, aspect ratio, and color to suit your personal preferences.

# **Configuring the Picture Menu**

# 🗆 Mode

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

Press the TOOLS button to display the Tools menu. You can also set the picture mode by selecting Tools → Picture Mode.

# Bynamic

Selects the picture for increased definition in a bright room.

#### Standard

Selects the picture for the optimum display in a normal environment.

#### Natural

Selects the picture for an optimum and eye-comfortable display. **Natural** is not available in PC mode.

Movie

Selects the picture for viewing movies in a dark room.

# Backlight / Contrast / Brightness / Sharpness / Color / Tint(G/R)

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

- Backlight: Adjusts the brightness of LED back light.
- Contrast: Adjusts the contrast level of the picture.
- Brightness: Adjusts the brightness level of the picture
- Sharpness: Adjusts the edge definition of the picture.
- Color: Adjusts color saturation of the picture.
- Tint(G/R): Adjusts the color tint of the picture.
- When you make changes to Backlight, Contrast, Brightness, Sharpness, Color or Tint(G/R) the OSD will be adjusted accordingly.
- D In PC mode, you can only make changes to **Backlight, Contrast** and **Brightness**.
- Ø Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- The energy consumed during use can be significantly reduced if the brightness level of the picture is lowered, which will reduce the overall running cost.

# Advanced Settings

Samsung's new TVs allow you to make even more precise picture settings than previous models.

- Advanced Settings is available in Standard or Movie mode.
- In PC mode, you can only make changes to Dynamic Contrast, Gamma and White Balance from among the Advanced Settings items.

#### 

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





Black Tone	: Oli	>
Dynamic Contrast	Medium	
Gamma		
Color Space	: Native	
White Balance		
Flesh Tone		
Edge Enhancement	: On	

#### ■ Dynamic Contrast → Off / Low / Medium / High

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

#### 🛎 Gamma

You can adjust the primary color (red, green, blue) intensity.

#### Color Space

Color space is a color matrix composed of red, green and blue colors. Select your favorite color space to experience the most natural color.

- Auto: Auto color space automatically adjusts to the most natural color tone based on program sources.
- Native: Native color space offers deep and rich color tone.
- Custom: Adjusts the color range to suit your preference.
  - Ø Changing the adjustment value will refresh the adjusted screen.
  - Settings can be adjusted and stored for each external device you have connected to an input of the TV. For example, if you have a DVD player connected to HDMI 1 and it is currently selected, settings and adjustments will be saved for the DVD player.
    - Color: Red, Green, Blue, Yellow, Cyan or Magenta
      - Color is available when Color Space is set to Custom.
      - Discrete Color, you can adjust the RGB values for the selected color.
      - I To reset the adjusted RGB value, select Reset.
    - Red: Adjusts the red saturation level of the selected color.
    - Green: Adjusts the green saturation level of the selected color.
    - Blue: Adjusts the blue saturation level of the selected color.
    - Reset: Resets the color space to the default values.

#### White Balance

You can adjust the color temperature for more natural picture colors.

- R-Offset: Adjusts the red color darkness.
- G-Offset: Adjusts the green color darkness.
- B-Offset: Adjusts the blue color darkness.
- R-Gain: Adjusts the red color brightness.
- G-Gain: Adjusts the green color brightness.
- B-Gain: Adjusts the blue color brightness.
- Reset: The previously adjusted white balance will be reset to the factory defaults.

#### Flesh Tone

You can emphasize the pink 'flesh tone' in the picture.

Description of the adjustment value will refresh the adjusted screen.

#### 

You can emphasize object boundaries in the picture.

#### ■ xvYCC → Off / On

Setting the xvYCC mode to on increases detail and color space when watching movies from an external device (ie. DVD player) connected to the HDMI or Component IN jacks.

2 xvYCC is available when the picture mode is set to Movie, and the external input is set to HDMI or Component mode.

# Picture Options

In PC mode, you can only make changes to the Color Tone and Size from among the items in Picture Options.

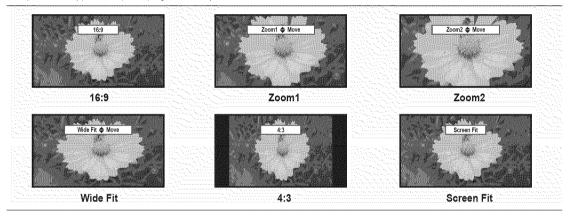
#### $\blacksquare$ Color Tone $\rightarrow$ Cool / Normal / Warm1 / Warm2 / Warm3

- Ø Warm1, Warm2 or Warm3 is only activated when the picture mode is Movie.
- D Settings can be adjusted and stored for each external device you have connected to an input of the TV.

#### Size 📰

Occasionally, you may want to change the size of the image on your screen. Your TV comes with several screen size options, each designed to work best with specific types of video input. Your cable box/satellite receiver may have its own set of screen sizes as well. In general, though, you should view the TV in 16:9 mode as much as possible.

- Alternately, you can press the P.SIZE button on the remote control repeatedly to change the picture size.
- 16:9 : Sets the picture to 16:9 wide mode.
- **Zoom1**: Magnifies the size of the picture on the screen.
- Zoom2: Magnifies the size of the picture more than Zoom1.
- Wide Fit: Enlarges the aspect ratio of the picture to fit the entire screen.
- 4:3 : Sets the picture to 4:3 normal mode.
- Screen Fit: Use the function to see the full image without any cutoff when HDMI (720p/1080i/1080p), Component (1080i/1080p) or DTV (1080i) signals are input.



- When Double (
  ) mode has been set in PIP, the Picture Size cannot be set.
- Departure of the set for more than two hours.
- Ø After selecting Zoom1, Zoom2 or Wide Fit: Press the ► button to Select Position, then press the ENTER → button. Press the ▲ or ▼ button to move the picture up and down. Then press the ENTER → button. Press the ► button to Select Size, then press the ENTER → button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the ENTER → button.
- Ø After selecting Screen Fit in HDMI (1080i/1080p) or Component (1080i/1080p) mode, you made need to center the picture: Press the ◄ or ► button to select Position, then press the ENTER button. Press the ▲, ▼, ◄ or ► button to move the picture.
  - Reset: Press the ◄ or ► button to select Reset, then press the ENTER 🖃 button. You can initialize the setting.
- ID (High Definition): 16:9 1080i/1080p (1920x1080), 720p (1280x720)
- Settings can be adjusted and stored for each external device you have connected to an input of the TV.

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV(1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, 4:3, Wide Fit, Screen Fit
PC	16:9, 4:3

Color Tone	🕴 Normat 🛛 🕨			
Size	: 16:9			
Digital NR	: Auto			
HDMI Black Level	: ficensal			
Film Mode	: 0//			
Blue Only Mode	: Off			
Auto Motion Plus 120Hz	: Standard			

#### $\blacksquare$ Digital NR $\rightarrow$ Off / Low / Medium / High / Auto

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

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

#### ■ HDMI Black Level → Normal / Low

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

This function is active only when an external device is connected to the TV via HDMI. The HDMI Black Level function may not be compatible with all external devices.

#### ■ Film Mode → Off / Auto1 / Auto2

The TV can be set to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

- Difference of the supported in TV, Video, Component (480i / 1080i) and HDMI (480i / 1080i).
- Off: Turns the Film Mode function off.
- Auto1: Automatically adjusts the picture for the best quality when watching a film.
- Auto2: Automatically optimizes the video text on the screen (not including closed captions) when watching a film.

#### Blue Only Mode Off / On

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

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

#### 

Removes drag from fast scenes with a lot of movement to provide a clearer picture.

- If you enable Auto Motion Plus 120Hz, noise may appear on the screen. If this occurs, set Auto Motion Plus 120Hz to Off.
- Off: Switches Auto Motion Plus 120Hz off.
- Clear: Sets Auto Motion Plus 120Hz to minimum.
- Standard: Sets Auto Motion Plus 120Hz to medium.
- **Smooth**: Sets Auto Motion Plus 120Hz to maximum.
- Custom: Adjusts the blur and judder reduction level to suit your preference.
  - Blur Reduction: Adjusts the blur reduction level from video sources.
  - Judder Reduction: Adjusts the judder reduction level from video sources when playing films.
  - Reset: Reset the custom settings.
- Demo: Displays the difference between Auto Motion Plus 120Hz on and off modes.

# $\hfill\square$ Picture Reset $\rightarrow$ Reset Picture Mode / Cancel

Resets all picture settings to the default values.

Reset Picture Mode: Current picture values return to default settings.

# **Viewing Picture-in-Picture**

You can use the PIP feature to simultaneously watch the TV tuner and one external video source. This product has one built-in tuner, which does not allow PIP to function in the same mode. Please see 'PIP Settings' below for details.

- Press the TOOLS button to display the Tools menu. You can also configure PIP related settings by selecting Tools → PIP.
- If you select the PIP picture sound, refer to the 'Configuring the Sound Menu' instructions. (see page 24)

#### PIP Settings

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

- While V-Chip is in operation, the PIP function cannot be used.
- D If you turn the TV off while watching in PIP mode and turn it on again, 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.

# $\label{eq:piperson} \Box \quad \text{PIP} \to \text{On} \ / \ \text{Off}$

You can activate or deactivate the PIP function.

- Size → □ / □ / / You can select a size of the PIP-picture.
- Position → \_\_\_ / \_\_ / \_\_ / \_\_

You can select a position of the PIP-picture.

In Double ( ) mode, Position cannot be selected.

 $\blacksquare \quad \mathsf{Air}/\mathsf{Cable} \to \mathsf{Air} \ / \ \mathsf{Cable}$ 

Select either Air or Cable as the input source for the sub-screen.

Channel

You can select the channel for the sub-screen.





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

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

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

# **Display Modes**

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your videocard user guide; otherwise there may be no video. For the display modes listed below, the screen image has been optimized during manufacturing.

#### D-Sub and HDMI/DVI Input

When using an HDMI/DVI cable connection, you must use the HDMI IN 1(DVI) jack.

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	44.772	59.855	74.500	-/+
	1280 x 720	56.456	74.777	95.750	-/+
	1280 x 960	75.231	74.857	130.000	-/+
VESA DMT	$\begin{array}{c} 640 \times 480 \\ 640 \times 480 \\ 640 \times 480 \\ 640 \times 480 \\ 800 \times 600 \\ 800 \times 600 \\ 800 \times 600 \\ 1024 \times 768 \\ 1024 \times 768 \\ 1024 \times 768 \\ 1024 \times 768 \\ 1152 \times 864 \\ 1280 \times 1024 \\ 1280 \times 800 \\ 1280 \times 800 \\ 1280 \times 800 \\ 1280 \times 960 \\ 1360 \times 768 \\ 1440 \times 900 \\ 1440 \times 900 \\ 1460 \times 1050 \end{array}$	31,469 37,861 37,500 37,879 48,077 46,875 48,363 56,476 60,023 67,500 63,981 79,976 49,702 62,795 60,000 47,712 55,935 70,635 65,290	$\begin{array}{r} 59.940\\ 72.809\\ 75.000\\ 60.317\\ 72.188\\ 75.000\\ 60.004\\ 70.069\\ 75.029\\ 75.029\\ 75.020\\ 60.020\\ 75.025\\ 59.810\\ 74.934\\ 60.000\\ 60.015\\ 59.887\\ 74.984\\ 59.954\end{array}$	25.175 31.500 31.500 40.000 50.000 49.500 65.000 75.000 78.750 108.000 108.000 135.000 83.500 106.500 106.500 106.500 106.500 135.000 85.500 106.500 146.250	-/- -/- +/+ +/+ +/+ +/+ +/+ +/+ +/+ +/+
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	+/+



# Setting up the TV with your PC

Preset: Press the **SOURCE** button to select PC mode.

#### Auto Adjustment

Use the Auto Adjust function to have the TV automatically adjust the video signals it receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.

- Press the TOOLS button to display the Tools menu. You can also set the Auto Adjustment by selecting Tools → Auto Adjustment.
- Difference of the second secon

#### Screen

#### Coarse / Fine

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (**Coarse**) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the center of screen.

# PC Position

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

Press the ▲ or ▼ button to adjusting the Vertical-Position. Press the ◀ or ► button to adjust the Horizontal-Position.

#### Image Reset

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





# SOUND

You can configure the sound mode, volume, multi-track sound options, etc.

# **Configuring the Sound Menu**

#### $\Box$ Mode $\rightarrow$ Standard / Music / Movie / Clear Voice / Custom

- Press the TOOLS button to display the Tools menu. You can also set the sound mode by selecting Tools → Sound Mode.
- Standard: Selects the normal sound mode.
- Music: Emphasizes music over voices.
- Movie: Provides the best sound for movies.
- Clear Voice: Emphasizes voice over other sounds.
- Custom: Recalls your customized sound settings.

#### Equalizer

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

- Mode: Selects the sound mode among the predefined settings.
- Balance L/R: Adjusts the balance between the right and left speaker.
- 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies.
- Reset: Resets the equalizer settings to the default values.

#### $\hfill\square$ SRS TruSurround HD $\rightarrow$ Off / On

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

Press the TOOLS button to display the Tools menu. You can also set the SRS TruSurround HD by selecting Tools → SRS TS HD.

#### Preferred Language (digital channels only)

Digital-TV broadcasts are capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).

- Division on the remote control.
- Preferred Language is available only in Digital TV mode.
- 2 You can only select the language from among the actual languages being broadcast.

#### Multi-Track Sound (MTS) (analog channels only)

- Press the MTS button on the remote control repeatedly to select Mono, Stereo or SAP.
- Mono: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.
- Stereo: Choose for channels that are broadcasting in stereo.
- SAP: Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.
- Multi-Track Sound is available only in Analog TV mode.
- Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.





# $\hfill\square$ Auto Volume $\rightarrow$ Off / On

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

# □ Speaker Select

When you watch TV with it connecting to a Home theater, turn the TV speakers off so you can listen to sound from the Home theater's (external) speakers.

- External Speaker: Used to listen to the sound of the External (Home Theater) Speakers.
- TV Speaker: Used to listen to the sound of the TV Speakers.
- The volume and MUTE buttons do not operate when the Speaker Select is set to External Speaker. Please set the volume on your Home theater.
- D If you select External Speaker in the Speaker Select menu, the sound settings will be limited

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

# $\hfill\square$ Sound Select $\rightarrow$ Main / Sub

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

- $\square$  You can select this option when **PIP** is set to **On**.

#### $\hfill\square$ Sound Reset $\rightarrow$ Reset All / Reset Sound Mode / Cancel

You can restore the Sound settings to the factory defaults.

Reset Sound Mode: Current sound values return to default settings.



You can set up additional functions

# **Configuring the Setup Menu**

# Language

You can set the menu language.

# Time

For detailed procedures on setting up options, refer to the 'Setting the Time' instructions. (see pages 28~29)

# $\hfill\square$ Game Mode $\rightarrow$ Off / On

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

- Restrictions on game mode (Caution)
  - 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.
- Ø Game Mode is not available in regular TV and PC mode.
- While PIP is in operation, the Game Mode function cannot be used.
- If the picture is poor when external device is connected to TV, check if Game Mode is On. Set Game Mode to Off and connect external devices.
- If Game Mode is On:
  - Picture mode is automatically changed to Standard and cannot be changed.
  - Sound mode is automatically changed to Custom and cannot be changed. Adjust the sound using the equalizer.
  - The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer settings to the factory defaults.

# $\hfill\square$ BD Wise $\rightarrow$ Off / On

Provides the optimal picture quality for SAMSUNG DVD, Blu-ray and Home Theater products which support BD Wise. You can enjoy a richer picture when using them connected to this Samsung TV.

- Connect SAMSUNG products that have BD Wise using an HDMI cable.
- When the **BD Wise** set to **On**, the picture mode is automatically changed to the optimal resolution.
- D BD Wise is available in HDMI mode.

# Network Type / Network Setup

For detailed procedures on setting up options, refer to the 'Setting the Network' instructions. (see pages 30~35)

# □ V-Chip

The V-Chip feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the V-Chip restrictions are set up or changed.

- ℤ V-Chip function is not available in HDMI, Component or PC mode.
- The default PIN number of a new TV set is '0-0-0-0'
- Dialow all: Press to unlock all TV ratings. / Block all: Press to lock all TV ratings.

# Change PIN

The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them. As soon as the 4 digits are entered, the **Confirm New PIN** screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized.

 $\bigcirc$  If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0 : **POWER** (off)  $\rightarrow$  **MUTE**  $\rightarrow$  8  $\rightarrow$  2  $\rightarrow$  4  $\rightarrow$  **POWER** (on).

	Plug & Play	
0	<ul> <li>Language</li> </ul>	:English 🕨 🕨
	Time	
	Game Mode	: Off
	BD Wise	
	Network Type	: Cable
	Network Setup	
	V-Chip	
	Caption	
	Ċ,	<ul> <li>Language</li> <li>Time</li> <li>Game Mode</li> <li>BD Wise</li> <li>Network Setup</li> <li>V-Chip</li> </ul>

#### $\blacksquare \quad \text{V-Chip Lock} \to \text{Off / On}$

You can block rated TV Programs.

#### **TV Parental Guidelines**

You can block TV programs depending on their rating. This function allows you to control what your children are watching.

- TV-Y: Young children / TV-Y7: Children 7 and over / TV-G: General audience / TV-PG:
   Parental guidance / TV-14: Viewers 14 and over / TV-MA: Mature audience
- ALL: Lock all TV ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation / L: Adult Language / D: Sexually Suggestive Dialog
- The V-Chip will automatically block certain categories that are more restrictive. For example, if you block TV-Y category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the young adult group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly.
- The V-chip will automatically block certain categories that are 'More restrictive'. For example, if you block L sub-rating in TV-PG, then the L sub-ratings in TV-14 and TV-MA will automatically be blocked.

#### MPAA Rating

You can block movies depending on their MPAA rating. The Motion Picture Association of America(MPAA) has implemented a rating system that provides parents or guardians with advance information on which films are appropriate for children.

- G: General audience (no restrictions).
- **PG**: Parental guidance suggested.
- **PG-13**: Parents strongly cautioned.
- R: Restricted. Children under 17 should be accompanied by an adult.
- NC-17: No children under age 17.
- X: Adults only.
- NR: Not rated.
- The V-Chip will automatically block any category that is 'More restrictive'. For example, if you block the PG-13 category, then R, NC-17 and X will automatically be blocked also.
- 🔳 Canadian English
  - C: Programming intended for children under age 8.
  - C8+: Programming generally considered acceptable for children 8 years and over to watch on their own.
  - G: General programming, suitable for all audiences.
  - PG: Parental Guidance.
  - 14+: Programming contains themes or content which may not be suitable for viewers under the age of 14.
  - 18+: Adult programming.
  - The V-Chip will automatically block any category that is 'More restrictive'. For example, if you block G category, then PG, 14+ and 18+ will automatically be blocked also.

#### Canadian French

- G: General
- 8 ans+: Programming generally considered acceptable for children 8 years and over to watch on their own.
- 13 ans+: Programming may not be suitable for children under the age of 13.
- 16 ans+: Programming is not suitable for children under the age of 16.
- 18 ans+: Programming restricted to adults.
- The V-Chip will automatically block any category that is 'More restrictive'. For example, if you block 8 ans+ category, then 13 ans+, 16 ans+ and 18 ans+ will automatically be blocked also.

	ALL	FV	٧	s	L	D	Allow All
TV-Y	11						- Personal and the second
TV-Y7		1					Block All
TV-G			12000595				
TV-PC	Ť			entre in			
	-						

2	
PG	Allow All
PG: 13	Block All
R	
NC-17	
NR	

#### Downloadable U.S. Rating

- Parental restriction information can be used while watching DTV channels
- P If information is not downloaded from the broadcasting station, the **Downloadable U.S.** rating menu is deactivated.
- Parental restriction information is automatically downloaded while watching DTV channels. It may take several seconds.
- P The Downloadable U.S. rating menu is available for use after information is downloaded from the broadcasting station. However, depending on the information from the broadcasting station, it may not be available for use.
- Parental restriction levels differ depending on the broadcasting station. The default menu name and Downloadable US rating changes depending on the downloaded information
- Even if you set the On-screen display to your desired language, the **Downloadable U.S. Rating** menu will appear in English only.
- Difference of the second secon
- Direction of the rating titles (For example: Humor Level..etc) and TV ratings (For example: DH, MH, H..etc) may differ depending on the broadcasting station.

#### How to Reset the TV after the V-Chip Blocks a Channel (Emergency Escape)

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear:

- 1. Enter your PIN, then press the ▲ or ▼ button to temporarily disable the V-Chip Lock.
- D If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0 : **POWER** (off)  $\rightarrow$  **MUTE**  $\rightarrow$  8  $\rightarrow$  2  $\rightarrow$  4  $\rightarrow$  **POWER** (on)

#### Caption (On-Screen Text Messages)

#### Caption --- Off / On

You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

- B Press the CC button on the remote control to turn the Caption on or off.
- The Caption feature doesn't work in Component, HDMI or PC modes.

#### Caption Mode

You can select the desired caption mode.

- Description of the program being broadcast.
- Default / CC1~CC4 / Text1~Text4 (analog channels only)

The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to TV. (Depending on the broadcasting signal, the Analog Caption function may operate on digital channels.)

- Default / Service1~Service6 / CC1~CC4 / Text1~Text4 (digital channels only) ۲
  - The Digital Captions function operates on digital channels.

Service1~6 in digital caption mode may not be available depending on the broadcast.

#### Digital Caption Options (digital channels only)

- Size: This option consists of Default, Small, Standard and Large. The default is Standard.
- Font Style: This option consists of Default, Style 0 ~ Style 7. You can change the font you want. The default is Style 0.
- Foreground Color: This option consists of Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the color of the letter. The default is White.
- Background Color: This option consists of Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the background color of the caption. The default is Black.
- Foreground Opacity: This option consists of Default, Transparent, Translucent, Solid and Flashing. You can change the opacity of the letter.

The number of all rating information





- Background Opacity: This option consists of Default, Transparent, Translucent, Solid and Flashing. You can change the background opacity of the caption.
- Return to Default: This option sets each of Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.
- Digital Caption Options are available only when Default and Service1 ~ Service6 can be selected in Caption Mode.
- ${\ensuremath{\mathbb D}}$  The availability of captions depends on the program being broadcast.
- ${\ensuremath{\mathbb D}}$  Default means to follow the standard set by the broadcaster.
- $\ensuremath{\textcircled{D}}$  Foreground and Background cannot be set to have the same color.
- Difference of the set to Transparent.

# $\hfill\square$ Melody $\rightarrow$ Off / Low / Medium / High

A melody sound can be set to come on when the TV is powered On or Off.

- The Melody does not play.
  - When no sound is output from the TV because the MUTE button has been pressed.
  - When no sound is output from the TV because the volume has been reduced to minimum with the VOL button.
  - When the TV is turned off by Sleep Timer function.

#### $\hfill\square$ Light Effect $\rightarrow$ Off / In Standby / Watching TV / Always

You can turn the LED on/off on the front of TV. Turn it off to save power or if the LED bothers you.

- Off: LED is always Off.
- In Standby: LED is On when TV is turned off.
- Watching TV: LED is On when watching TV.
- Always: LED is always On, regardless of TV settings.
- Ø Set the Light Effect to Off to reduce the power consumption.
- The color of light may vary depending on the model.

# $\hfill\square$ Energy Saving $\rightarrow$ Off / Low / Medium / High / Auto

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

#### 🗆 PIP

For detailed procedures on setting up options, refer to the 'Viewing Picture-in-Picture' instructions. (see page 20)

# Setting the Time

#### Clock

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

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

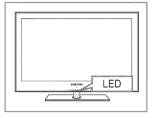
#### Clock Mode

You can set up the current time manually or automatically.

- Auto: Set the current time automatically using the time from the digital broadcast.
- Manual: Set the current time to a manually specified time.
- Depending on the broadcast station and signal, the auto time may not be set correctly. If this occurs, set the time manually.
- D The Antenna or cable must be connected in order to set the time automatically.

# Clock Set

- You can set the current time manually.
- Description This function is only available when **Clock Mode** is set to **Manual**.
- You can set the month, day, year, hour and minute directly by pressing the number buttons on the remote control.







#### Time Zone

Select your time zone.

Description This function is only available when Clock Mode is set to Auto.

#### BST (Daylight Saving Time) $\rightarrow$ Off / On / Auto

Switches the Daylight Saving Time function on or off.

Description This function is only available when **Clock Mode** is set to **Auto**.

# Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes).

- Press the **TOOLS** button to display the **Tools** menu. You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.
- It is a cancel the Sleep Timer function, select Off.

# D Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made. You must set the clock first.

#### 🛎 On Time

Set the hour, minute, am/pm, and activate / inactivate. (To activate the timer with the setting you've chosen, set to **Activate**.)

#### Off Time

Set the hour, minute, am/pm, and activate / inactivate. (To activate the timer with the setting you've chosen, set to **Activate**.)

#### Volume

Set the desired volume level.

#### ■ Source → TV / USB

You can select the **TV** or **USB** device content to be played when the TV turns on automatically. Select **TV** or **USB**. (Make sure that an USB device is connected to your TV.)

 $\square$  When there is only one photo file in the **USB**, the Slide Show will not play.

- Antenna (when Source is set to TV) Select Air or Cable.
- Channel (when Source is set to TV) Select the desired channel.

#### Contents (when Source is set to USB)

You can select a folder on the USB Device with music or photo files to be played when the TV turns on automatically.

- $\square$  If the folder name is too long, the folder can not be selected.
- If you are using two of the same type USB device, be sure the folder names are different so the correct USB is read.

# Repeat

# Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual.

- Ø When Manual is selected, press the ► button to select the desired day of the week. Press the ENTER → button over the desired day and the ✓ mark will appear.
- Ø You can set the hour, minute and channel by pressing the number buttons on the remote control.

Auto Power Off

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



English - 29

# **Network Connection**

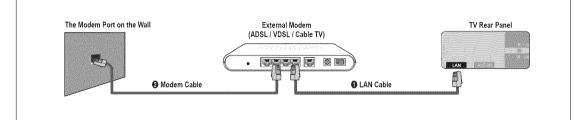
You can set up the Internet Protocol so that you can communicate with various connected networks.

#### Network Connection - Cable

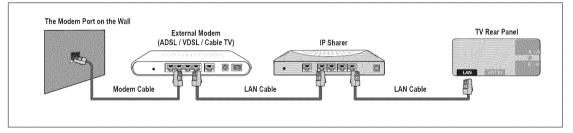
#### LAN Connection for a DHCP Environment

The procedures to set up the network using Dynamic Host Configuration Protocol (DHCP) are described below. Since an IP address, subnet mask, gateway, and DNS are automatically allocated when DHCP is selected, you do not have to enter them manually.

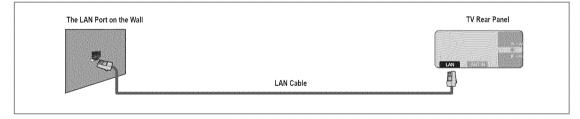
- 1. Connect the LAN port on the rear panel of the TV and the external modem with a LAN Cable.
- 2. Connect the Modem port on the wall and the external modem with a Modem Cable.



# You can connect the LAN via a Sharer (Router).



# You can connect the LAN port and the TV directly depending on your network status.

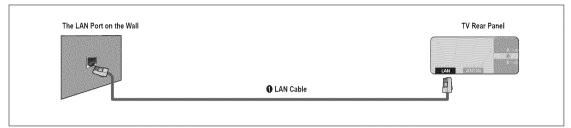


- In terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- If the IP address allocation by the DHCP server has failed, turn the external modem off, turn it on again after at least 10 seconds and then try again.
- Prote the connections between the external modem and the Sharer (Router), refer to the owner's manual of the corresponding product.
- You can connect the TV to the LAN directly without connecting it through a Sharer (Router)
- You cannot use a manual-connection-type ADSL modem because it does not support DHCP. You have to use an automaticconnection-type ADSL modem.

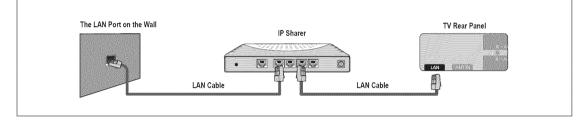
#### LAN Connection for Static IP Environment

The procedures to set up the network using a static IP address are described below. You have to manually enter the IP address, subnet mask, gateway, and DNS that are provided by your Internet Service Provider (ISP).

1. Connect the LAN port on the rear panel of the TV and the LAN port on the wall using the LAN cable.



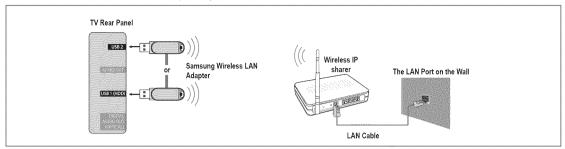
# You can connect the LAN via a Sharer (Router).



- In terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- If you are using a static IP address, your ISP will inform you of the IP address, subnet mask, gateway, and DNS. You must enter these values to complete the network settings. If you do not know the values, ask your network administrator.
- Por the information on how to configure and connect a Sharer (Router), refer to the owner's manual for the corresponding product.
- Ø You can connect the TV to the LAN directly without connecting it through a Sharer (Router).
- 🖉 If you use an IP Sharer (IP Router) that supports DHCP, you can set up the device as either DHCP or static IP.
- Ø For the procedures to use a static IP address, ask your Internet Service Provider.

# □ Network Connection - Wireless

You can connect to the network wirelessly through a wireless IP sharer.



- 1. Connect the 'Samsung Wireless LAN Adapter' into the USB1(HDD) or USB2 terminal of the TV.
  - Ø You must use the 'Samsung Wireless LAN Adapter' (WIS09ABGN) to use a wireless network.
  - Samsung's Wireless LAN adapter is sold separately. The WIS09ABGN Wireless LAN adapter 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.
  - Discrete Samsung's Wireless LAN adapter supports IEEE 802.11A, IEEE 802.11B, IEEE 802.11G, IEEE 802.11N.
  - Ø If the wireless IP sharer allows you to turn the Ping connection function on/off, turn it on.
  - 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 communications may fail.
  - D If you apply a security system other than the systems listed below, it will not work with the TV.
    - When applying the security key for the AP (wireless IP sharer), only the following is supported.
       1) Authentication Mode : OPEN, SHARED, WPAPSK, WPA2PSK
      - 2) Encryption Type : WEP, TKIP, AES
    - When applying the security key for the Ad-hoc mode, only the following is supported.
      - 1) Authentication Mode : SHARED, WPANONE
      - 2) Encryption Type : WEP, TKIP, AES
  - If your AP supports WPS(Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Indentification Number). WPS will automatically configure the SSID and WPA key in either mode.
  - D If the device isn't certified, it may not connect to the TV via the 'Samsung Wireless LAN Adapter'.

# **Setting the Network**

### Network Type

Select Cable or Wireless as the method to connect to the network.

Derived the menu is activated only if the 'Samsung Wireless LAN Adapter' is connected.

#### Cable

Connect to the network using a cable.

Wireless

Connect to the network wirelessly.

#### Network Setup

- Cable Network Setup (when Network Type is set to Cable)
  - Delease check if the LAN cable is connected.
  - Internet Protocol Setup → Auto Setup / Manual Setup
  - Network Test: You can test or confirm the network connection status after setting up the network.
  - When unable to connect to a wired network

If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC).

In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If your Internet service provider requires an ID or password to connect to the Internet (network), your TV may not be able to connect to the Internet. In this case, you have to enter your ID or password when connecting to the Internet using an Internet Sharer (Router).

The internet connection may fail due to a firewall problem. In this case, contact your Internet service provider. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact Samsung Electronics at 1-800-SAMSUNG.

#### Cable Network Setup-Auto Setup

If you connect the LAN cable and it supports DHCP, the Internet Protocol (IP) Settings are automatically configured.

- 1. Set Network Type to Cable.
- 2. Select Cable Network Setup.
- Set Internet Protocol Setup to Auto Setup.
   The Internet Protocol is set automatically.
- 4. Select Network Test to check the network connectivity.

#### Cable Network Setup-Manual

To connect the TV to the LAN using a static IP address, you must set up the Internet Protocol (IP).

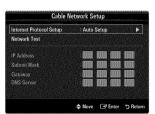
- 1. Set Network Type to Cable.
- 2. Select Cable Network Setup.
- 3. Set Internet Protocol Setup to Manual Setup.
- 4. Set up IP Address, Subnet Mask, Gateway and DNS Server.

Press the number buttons on the remote control when you set the Network manually.

5. Select Network Test to check the network connectivity.

#### Wireless Network Setup

- Derived the menu is activated only if the 'Samsung Wireless LAN Adapter' is connected.
- Internet Protocol Setup  $\rightarrow$  Auto Setup / Manual Setup
- Network Test: You can test or confirm the network connection status after setting up the network.







 ${\ensuremath{\mathbb D}}$  When unable to connect to an AP

Your TV may fail to locate an AP that is configured as a private SSID type. In this case, please change the AP settings and try again. If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC).

In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact a Samsung Electronics at 1-800-SAMSUNG.

### • Select a network

- Access Point: You can select the IP sharer to use when using a wireless network.
  - Ø If a wireless Access Point is not in the Access Point list, press the Red button.
  - Ø When the connection is made, you will be returned to the screen automatically.
  - If you have selected an Access Point with a security authentication: The Security Key input screen appears. Enter the security key and press the Blue button on the remote control.
  - If security encryption type is WEP, 0~9, A~F will be available when you input security key.

#### Connecting WPS (Wi-Fi Protected Setup)

- If Security Key is already set: In access point list, select WPS.
  - You can select PBC, PIN, Security Key.
  - Connecting by using PBC: Select a PBC (Push Button Configuration). Press the PBC button on the AP (access point) within 2 minutes, and wait for connection.
  - Connecting by using **PIN**: Select a **PIN** (Personal Identification Number).
    - The message showing the PIN Code is displayed. Input the PIN Code at AP device within 2 minutes. Select OK and wait for connection.
    - It y again if connecting operation doesn't work
    - When the connection is not established although tried again, reset the access point. Please refer to a manual of each access point.
  - Connecting by using Security Key: When selecting Security Key, the input window is displayed. Input the security key and press Blue button.
    - Try again if connecting operation doesn't work.
- If Security Key is not set: When the security setting of AP that supports WPS is NONE, you can select PBC, PIN, None Security. None Security is capable of connecting to AP directly without using WPS function.
  - Direction Process of PBC, PIN is same as above. Refer to if Security Key is already set.
  - It y again if connecting operation doesn't work.



Select a network		3/9
Snaroh Ad-tioe	калі  ка   АР_1  Ар_2	PBC PIN Security Key
	\$ M	ove 🕞 Enter 🔿 Reta









 Ad-hoc: You can connect to a mobile device without an access point through the 'Samsung Wireless LAN Adapter' by using a peer to peer network.

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

- 1. Choose Select a network, then a device list is displayed.
- While in the device list, press the Blue button on the remote or select Adhoc.
  - The message The existing network system may have limited functionality. Do you want to change the network connection? is displayed.
- Input the generated Network Name(SSID) and Security Key into the device you want to connect.

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

- 1. Choose Select a network, the device list is displayed.
- 2. Select the device you want in the Device list.
- 3. If security key was applied, input the security key again.
  - If network doesn't operate normally, please check the Network Name(SSID) and Security Key again. If the Security Key is incorrect, it may be the reason for the malfunction.

#### Wireless Network Setup-Auto Setup

If you want to connect AP, AP should support DHCP. Only devices which support Ad-hoc mode can be connected without DHCP.

- 1. Set Network Type to Wireless.
- 2. Select Wireless Network Setup.
- 3. Set Internet Protocol Setup to Auto Setup.

 ${\ensuremath{\mathbb D}}$  The Internet Protocol is set automatically.

- 4. Select a network through Select a network.
- 5. Select Network Test to check the network connectivity.

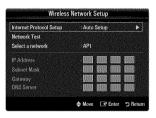
#### Wireless Network Setup-Manual Setup

- 1. Set Network Type to Wireless.
- 2. Select Wireless Network Setup.
- 3. Set Internet Protocol Setup to Manual Setup.
- 4. Set up IP Address, Subnet Mask, Gateway and DNS Server.

Press the number buttons on the remote control when you set the Network manually.

- 5. Select a network through Select a network.
- 6. Select Network Test to check the network connectivity.





Internet Protocol Setup	Manual Setup
Network Test	
Select a network	: AP1
IP Address	
Subnet Mask	
Gateway	
DNS Server	

English - 35

# **INPUT / SUPPORT**

# **Input Menu**

#### Source List

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

B Press the SOURCE button on the remote control to view an external signal source.

#### IV / AV / Component / PC / HDMI1/DVI / HDMI / HDMI / HDMI4 / USB

- You can choose only those external devices that are connected to the TV. In the Source List, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom.
- If USB devices are connected to the USB1(HDD) and USB2 jacks, they are displayed as USB1 and USB2 in order.
- PC always stays activated.
- ${\ensuremath{\mathbb D}}$  Using the color buttons on the remote with the Source list
  - Red (Refresh): Refreshes the connected external devices. Press this if your Source is on and connected, but does not appear in the list.
  - TOOLS (Tools): Displays the Edit Name and Information menus.

#### Edit Name

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

Name the device connected to the input jacks to make your input source selection easier.

- When a PC with a resolution of 1920 x 1080@60Hz is connected to the HDMI IN 1(DVI) port, you should set the HDMI1/DVI mode to DVI PC in the Edit Name of the Input mode.
- When connecting an HDMI/DVI cable to the HDMI IN 1(DVI) port, you should set the HDMI1/DVI mode to DVI or DVI PC in the Edit Name of the Input mode. In this case, a separate sound connection is required.

# Support Menu

#### Self Diagnosis

Picture Test

If you think you have a picture problem, perform the picture test. Check the color pattern on the screen to see if the problem still exists.

- Yes: If the test pattern does not appear or there is noise in the test pattern, select Yes. There may be a problem with the TV. Contact Samsung's call center for assistance.
- No: If the test pattern is properly displayed, select No. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.









#### Sound Test

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

- 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.
- Yes: If during the sound test you can hear sound only from one speaker or not at all, select Yes. There may be a problem with the TV. Contact Samsung's call center for assistance.
- No: If you can hear sound from the speakers, select No. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual.

#### Signal Strength (digital channels only)

Unlike analog channels, which can vary in reception quality from 'snowy' to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analog channels, you cannot fine tune a digital channel. You can, however, adjust your antenna to improve the reception of available digital channels.

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

## □ Software Upgrade

Samsung may offer upgrades for the TV's firmware in the future. These upgrades can be performed via the TV when it is connected to the Internet, or by downloading the new firmware from samsung.com to a USB memory device.

- Current Version is the software already installed in the TV.
- Ø Alternative Software (Backup) shows the previous version that will be replaced.
- Software is represented as 'Year/Month/Day\_Version'. The more recent the date, the newer the software version. Installing the latest version is recommended.

#### 🛎 By USB

TV Rear Panel	I
USE23 +-	-::
<b>CONTRACTOR</b>	or
	USB Drive

Current Version	2009/01/17_000001	
By USB		•
By Online		
Alternative Software	2009/01/16_000000	

Insert a USB drive containing the firmware upgrade downloaded from samsung.com into the TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete (the new version will have a higher number than the older version).

When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.

### By Online

Upgrades the software using the Internet.

- First, configure your network. For detailed procedures on using the Network Setup, refer to the 'Setting the Network' instructions. (see pages 30~35)
- If the internet connection doesn't operate properly, connection can be broken. please retry downloading. If the problem still happens, download by USB and upgrade.

#### Alternative Software (Backup)

If there is an issue with the new firmware and it is affecting operation, you can change the software to the previous version.

- If software was changed, existing software is displayed.
- Ø You can change current software to alternative software by 'Alternative Software'.

#### □ HD Connection Guide

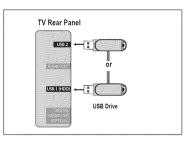
This menu presents the connection method that provides the optimal quality for the HDTV. Refer to this information when connecting external devices to the TV.

#### Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can view the information regarding the call center, product and software file download method.

# **Connecting a USB Device**

- 1. Press the POWER button to turn the TV on.
- Connect a USB device containing photo, music and/or movie files to the USB1(HDD) or USB2 jack on the side of the TV.
- 3. When the Application selection screen is displayed, press the ENTER → button to select Media Play (USB).
  - MTP (Media Transfer Protocol) is not supported.
  - Image: The file system supports FAT16, FAT32 and NTFS.
  - O Certain types of USB Digital camera and audio devices may not be compatible with this TV.
  - Media Play only supports USB Mass Storage Class devices (MSC). 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.).
  - Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB compatibility problem.
  - 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 USB1(HDD) port. Warning: Do not exceed 1.5 amperes.
  - ${\ensuremath{\boxtimes}}$  Do not disconnect the USB device while it is loading.
  - Ø MSC supports MP3, JPEG and movie files, while a PTP device supports JPEG files only.
  - Derived The higher the resolution of the image, the longer it takes to display on the screen.
  - Difference of the maximum supported JPEG resolution is 15360X8640 pixels.
  - Derived For unsupported or corrupted files, the 'Not Supported File Format' message is displayed.
  - If sort key is set to Basic View, up to 1000 files can be displayed in each folder. The other sort key can display up to 10000 files.
  - 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.
  - Direct When moving to a photo, loading may take a few seconds. At this point, the loading icon will appear at the screen.
  - D If more than 2 PTP devices are connected, you can only use one at a time.
  - If more than one MSC device is connected, some of them may not be recognized. If a device requires high power (more than 500mA or 5V), the USB device may not be supported.
  - If an over-power (Fail add new device USB1/USB2 Power Overload) warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.





## Using the Remote Control Button in Media Play Menu

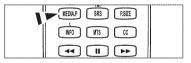
Button	Operations
<b>▲/▼/</b> ◀/▶	Move the cursor and select an item.
	Select the currently selected item. While playing a slide show, movie, or music file:
ENTER 🕑	- Pressing the ENTER 🚭 button during play pauses the play.
	- Pressing the ENTER 🖼 button during pause resumes the play.
►/II	Play or pause the Slide Show, music or movie.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
	Stop the current slide show, Music or Movie file.
<b>44</b> / <b>&gt;&gt;</b>	Jump to previous group/Jump to next group.
INFO	Show file information.
MEDIA.P	Exit Media Play mode.
V CH A, EXIT, TV	Stop Media Play mode and Returns to TV mode.

# **Media Play Function**

This function enables you to view and listen to photo, music and/or movie files saved on a USB Mass Storage Class (MSC) device.

## Entering the Media Play (USB) Menu

- 1. Press the MENU button. Press the ▲ or ▼ button to select Application, then press the ENTER I button.
- Press the ▲ or ▼ button to select Media Play (USB), then press the ENTER button.
  - The Media Play (USB) menu is displayed.
  - Press the MEDIA.P button on the remote control to display the Media Play menu.
- Media Play PHOTO Photo Photo Photo Music Movie Setup Deter



- Press the SOURCE button on the remote control to view the source list. Then Press the ▲ or ▼ button to select USB.
- Source MUTE CH
- 3. Press the Red button, then press the ▲ or ▼ button to select the USB Memory. Press the ENTER 🖼 button.
  - ${\ensuremath{\mathbb D}}$  This function differs depending on the USB Memory Device.
  - ${\ensuremath{\boxtimes}}$   ${\ensuremath{\boxtimes}}$  The selected USB device name appears at the bottom left of the screen.
- 4. Press the ◄ or ► button to select an icon (Photo, Music, Movie, Setup), then press the ENTER 🖼 button.
  - D To exit Media Play mode, press the MEDIA.P button on the remote control.

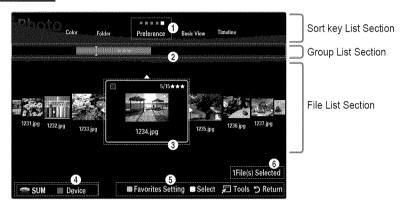
## Removing a USB Memory Device Safely

You can remove the device safely from the TV.

- Press the **TOOLS** button in the Media Play file list screen, or while a Slide Show, music or movie is being played.
- Press the ▲ or ▼ button to select Safe Remove, then press the ENTER button.
- 3. Remove the USB device from the TV.



## Screen Display



Move to either 'Sort key List Section', 'Group List Section' or 'File List Section' using the Up and Down buttons. After selecting a section, press the ◄ or ► buttons to select an item.

- Ourrent Sort key: This field shows the current standard for sorting files. Press the ◄ or ► button to change the standard for sorting files.
- View Groups: Shows the detailed groups of the files sorted according to the selected Sort key. The sort group where the currently selected file is contained is highlighted.
- Ourrently selected file: The selected file is the file you can now control. Photo and movie files are displayed as thumbnail images.
- O Current Device: Shows the currently selected device name. Press the Red button to select a device.
  - Red (Device) button: Selects a connected device.
- G Help Items
  - Green (Favorites Setting) button: Changes the Favorites Setting for the selected file. Press this button repeatedly until the desired value appears.
  - Yellow (Select) button: Selects file from the file list. Selected files are marked with a symbol ✓. Press the Yellow button again to cancel a file selection.
  - TOOLS (Tools) button: Displays the option menus. (The option menu changes according to the current status.)
- Item Selection Information: Shows the number of files that are selected by pressing the Yellow button.

# Sorting the Photo List

You can sort photos in the Photo List by a particular standard.

- 1. Press the MEDIA.P button.
- 2. Press the ◄ or ► button to select Photo, then press the ENTER 🕑 button.
- 3. Press the **A** button to move to the Sort key Section.
- Press the ◄ or ► button to select a sorting standard. (Basic View, Timeline, Color, Folder, Preference)

 ${\ensuremath{\mathbb D}}$  The photos are sorted according to the newly selected sorting standard.

- Press the ▼ button to move to the File List Section. Press the ► (Play)/
   ENTER ◄ button to start the Slide Show in the order you selected.
  - It is move to the previous/next group, press the (REW) or (FF) button.
  - Photo information is automatically set. The Color information extracted from a photo file may be different from your expectations. You can change the Color and preference.
  - PTP does not support folder sort mode.

#### Basic View

Shows the folders on the USB memory device. If you select a folder and press the ENTER 🖼 button, only the photo files contained in the selected folder are displayed.

When sorted according to the Basic View, you cannot set Favorite files.

#### Timeline

Sorts photos by date. It sorts by year and month from the earliest photo.

#### $\Box$ Color $\rightarrow$ Red / Yellow / Green / Blue / Magenta / Black / Gray / Unclassified

Sorts photos by Color. You can change the photo Color information.

2 You should set the Use Color View to on in the Setup menu before sorting photos by Color.

#### Folder

Sorts photos by folder. If there are many folders in USB, the photos files are shown in order in each folder. The photo file in the Root folder is shown first and the others are shown in alphabetical order by name.

#### 

- Sorts photos by preference (Favorite). You can change the photo preferences.
- Changing the Favorites Setting

Select the desired photo in the File List Section, then press the Green button repeatedly until the desired setting appears.

- D Up to 3 stars can be selected.
- It is stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.



# **Photo List Option Menu**

- 1. Press the MEDIA.P button.
- 2. Press the ◄ or ► button to select Photo, then press the ENTER 🕑 button.
- 3. Press the ◀ or ► button to select the desired photo file.
  - Selecting Multiple Photos
    - Press the  $\blacktriangleleft$  or  $\blacktriangleright$  button to select the desired photo file. Then press the Yellow button.
    - Repeat the above operation to select multiple photo files.
    - The mark 🗸 appears to the selected photo file.

#### 4. Press the TOOLS button.

The option menu changes according to the current status.

## □ Slide Show

Using this menu, you can play a SlideShow using the photo files on the USB memory device.

## Play Current Group

Using this menu, you can play a SlideShow using only the photo files in the currently selected sorting group.

## □ Change Group Info (When the Sort key is the Color)

You can change a selected photo file's (or group of files) Color information in order to move it from one Color group to another.

- ${\ensuremath{\mathbb D}}$  This does not change the actual Color of the photo.
- Description of the current file is updated and the photos are moved to the new Color group.
- Ø To change the information of multiple files, select the files you want by pressing the Yellow button.

## Deselect All (When at least one file is selected)

You can deselect all files.

 ${\Bbb D}$  The  $\checkmark$  mark indicating the corresponding file is selected is hidden.

## □ Information

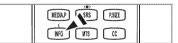
The photo file information including the name, the size, the resolution, the date modified and the path is displayed.

- You can view the information of photo files during a SlideShow using the same procedures.
- Press the INFO button to viewing the information.

## Safe Remove

You can remove the device safely from the TV.





#### Viewing a Slide Show

- 1. Press the ▼ button to select the File List Section.
- 2. Press the TOOLS button.
- Press the ▲ or ▼ button to select Slide Show, then press the ENTER button.
   ② All files in the File List Section will be used for the Slide Show.
- During the slide show, files are displayed in order from the currently shown file.
- Description The Slide Show progresses in the order sorted in the File List Section.
- O Music files can be automatically played during the Slide Show if the <code>Background Music</code> is set to <code>On</code>.
- ⓑ While a photo list is displayed, press the ► (Play)/ENTER ➡ button on the remote control to start slide show.

#### SlideShow Control Buttons

Button	Operations
ENTER 🕑	Play/Pause the Slide Show.
	Play the Slide Show.
	Pause the Slide Show.
	Exit Slide Show and return to the photo list.
<b>44</b> / <b>&gt;</b>	Change the SlideShow playing speed.
TOOLS	Run various functions from the Photo menus.



## Playing current group

- 1. Press the **▲** button to move to the Sort key Section.
- Press the ◄ or ► button to select a sorting standard.
- 3. Press the ▼ button to move to the Group List Section.
- 4. Select a group using the ◀ and ► buttons.
- 5. Press the 🗩 (Play) button. A slideshow begins with the files of the selected group.

#### Alternatively

- 1. Select a Sort key and then in the File List Section, select the photos contained in the desired group.
  - To move to the previous/next group, press the (REW) or (FF) button.
- 2. Press the TOOLS button.
- Press the ▲ or ▼ button to select Play Current Group, then press the ENTER button.
   ② Only the photos in the sorting group including the selected files will be used for the Slide Show.

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***				**	
1231 (24)			5/15 <b>* * *</b> 9		120 jog
1231.jpg 1232.jpg	1233 jpg	1234.jpg	1235.j	1256 ipg	1231 (04)
	n	es Francistas	Cables 10 Cale	ob ET Taala	D Robust

## To perform a Slide Show with only the selected files

- 1. Press the ▼ button to select the File List Section.
- 2. Press the ◀ or ► button to select the desired photo in the File List Section.
- 3. Press the Yellow button.
- 4. Repeat the above operation to select multiple photos.
  - $\bigcirc$  The  $\checkmark$  mark appears to the left of the selected photo.
  - If you select one file, the Slide Show will not be performed.
  - D To deselect all selected files, press the TOOLS button and select Deselect All.
- 5. Press the 🕨 (Play)/ENTER 🚭 button.
  - $\ensuremath{\mathbb{D}}$  The selected files will be used for the Slide Show.

#### Alternatively

- 1. In the File List Section, press the Yellow button to select the desired photos.
- 2. Press the TOOLS button.
- Press the ▲ or ▼ button to select Slide Show, then press the ENTER button.
   ② The selected files will be used for the Slide Show.

# **Slide Show Option Menu**

- 1. During a slide show (or when viewing a photo), press the **TOOLS** button to set the option.

#### □ Stop Slide Show / Start Slide Show

You can start or stop a SlideShow.

## $\hfill\square$ Slide Show Speed $\rightarrow$ Slow / Normal / Fast

You can select the slide show speed.

- This function is available only during a slide show.
- 🖉 You can also change the speed of the Slide Show by pressing the 🛋 (REW) or 📂 (FF) button during the Slide Show.

## □ Slide Show Effect

You can select the screen transition effect used in the slideshow.

None / Fade1 / Fade2 / Blind / Spiral / Checker / Linear / Stairs / Wipe / Random

Image: This function is available only during a slide show.

## Rotate

- You can rotate photos saved on a USB memory device.
- Whenever you press the ◀ button, it rotates by 270°, 180°, 90°, and 0°.
- Whenever you press the ► button, it rotates by 90°, 180°, 270°, and 0°.
- $\ensuremath{\mathbb{D}}$  The rotated file is not saved.



# 🗆 Zoom

- You can magnify photos saved on a USB memory device. (x1  $\rightarrow$  x2  $\rightarrow$  x4)
- ② To move the enlarged photo image, press the ENTER → button, then press the ▲/▼/◄/► buttons. Note that when the enlarged picture is smaller than the original screen size, the location change function doesn't work.
- $\swarrow$  The enlarged file is not saved.

## Background Music

You can select background music when watching a Slide Show.

- ${\ensuremath{\mathbb D}}$  To use this feature, there must be music and photo files stored on the USB device.
- Ø Loading music files is needed to change BGM mode. Play music files in music category to load.

#### ■ Background Music → Off / On

- Off: Background music is not played.
- On: When the background music is available, if you select On, the music is played back.

## ■ BGM Mode → Mood / Selected File / Shuffle

You can select a mode to use for the background music.

- ${\ensuremath{\,\cong\,}}$  BGM Mood  ${\ensuremath{\,\to\,}}$  Energetic / Rhythmical / Sad / Exciting / Calm / Unclassified
  - Music with the mood you selected is set as the background music.
  - Dif you set **BGM Mode** to **Mood**, you can select a mood.

## Select Music File (0 File(s) Selected)

Only the selected music file is set as the background music. If you set **BGM Mode** to **Selected File**, you can select a music file.

## Picture Setting / Sound Setting

You can select the picture and sound settings.

□ Information

The photo file information is displayed.

## Safe Remove

You can remove the device safely from the TV.

# Sorting the Music List

You can sort music files in the Music List by a particular standard.

- 1. Press the MEDIA.P button.
- 2. Press the ◀ or ▶ button to select Music, then press the ENTER 🖃 button.
- 3. Press the **▲** button to move to the Sort key Section.
- Press the ◄ or ► button to select a sorting standard. (Basic View, Title, Artist, Mood, Genre, Folder, Preference)

Description of the method of the second seco

- Press the ▼ button to move to the File List Section. Press the ► (Play)/ ENTER button to start playing music in the order selected by the user.
  - I To move to the previous/next group, press the (REW) or (FF) button.
  - Music information is automatically set. The mood information extracted from a music file may differ from the expectations of the user. You can change the mood and preference.
  - If there is no title information for a music file, the filename is displayed.
  - D If no information is available for the Artist, Album, Year, or Genre the corresponding item is displayed as blank.

#### Basic View

Shows the folders of the USB memory device. If you select a folder and press the ENTER 🖃 button, only the music files contained in the selected folder are displayed.

When sorted according to the **Basic View**, you cannot set Favorite files.

#### □ Title

Sorts the music titles in symbol/number/alphabet/special order, and shows the music file.

#### □ Artist

Sorts the music file by artist in symbol/number/alphabet/special order.

#### $\hfill\square$ Mood $\rightarrow$ Energetic / Rhythmical / Sad / Exciting / Calm / Unclassified

Sorts music files by the mood. You can change the music mood information.

### Genre

Sorts music files by the genre.

#### □ Folder

Sorts music files by the folder. If there are many folders in USB, the files are shown in order in each folder. The music file in the Root folder is shown first and the others are shown in alphabetical order by name.

#### 

Sorts music files by preference (Favorite). You can change the music files preferences.

Changing the Favorites Setting

Select the desired music file in the File List Section, then press the Green button repeatedly until the desired setting appears.

- Ø Up to 3 stars can be selected.
- Difference in the stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.



# English - 46

# **Music List Option Menu**

- 1. Press the MEDIA.P button.
- 2. Press the ◄ or ► button to select Music, then press the ENTER 🕑 button.
- 3. Press the ◀ or ► button to select the desired Music file.
  - Ø Selecting Multiple Music Files
    - Press the ◀ or ► button to select the desired music file. Then press the Yellow button.
    - Repeat the above operation to select multiple music files.
    - The mark 🗸 appears to the selected music file.
- 4. Press the TOOLS button.
  - The option menu changes according to the current status.

## Play Current Group

Using this menu, you can only play music files in the currently selected sorting group.

## □ Change Group Info (When the Sort key is Mood)

You can change the mood information of music files.

The group information of the current file is updated and the file is moved to the new group.

2 To change the information of multiple files, select files by pressing the Yellow button.

## Deselect All (When at least one file is selected)

You can deselect all files.

 ${\Bbb D}$  The  $\checkmark$  mark indicating the corresponding file is selected is hidden.

## □ Information

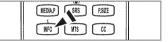
The music file information including the name, the size, the date modified and the path is displayed.

- D You can view the music file information during **Play Current Group** using the same procedures.
- Press the INFO button to viewing the information.

## Safe Remove

You can remove the device safely from the TV.

	Genr	e Fold		eference	Basic View	Title	
			Etergetic games	3/37 Clim Hers		an an t-fran Marian t-fran	n
5 e.U	FF North	Wey	J.	Once Ga 2007 Soundtrack ove You	Sale R	0.14	Shine
<u>SU</u> 緒	Des	ice	<b>B</b> Fa	varites Set	ting <b>10</b> Select	t 🗐 Took	s 🕽 Return



#### Playing a music file

- 1. Press the ▼ button to select the File List Section.
- 2. Press the ◄ or ► button to select a music file to be played.
- 3. Press the 
  (Play)/ENTER 
  button.
  - This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed, even if they are saved on the same USB device.
  - ${\mathbb Z}$  The selected file is displayed at the top with its playing time.
  - D To adjust the music volume, press the volume button on the remote control. To mute the sound, press the **MUTE** button on the remote control.
  - If the sound is odd when playing MP3 files, adjust the Equalizer and SRS TruSurround HD in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)
  - The playing duration of a music file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
  - (REW) or (FF) buttons do not function during play.

#### Music Play Control Buttons

Button	Operations
ENTER 🗗	Play/Pause the music file.
	Play the music file
11	Pause the music file
	Exit play mode and return to the music list.
TOOLS	Run various functions from the Music menus.

#### Music function information icon

ਦੇ	When all music files in the folder (or the selected file) are repeated. <b>Repeat Mode</b> is <b>On</b> .
Ċ	When all music files in the folder (or the selected file) are played once. <b>Repeat Mode</b> is <b>Off</b> .

#### Playing the music group

- 1. Press the **▲** button to move to the Sort key Section.
- 2. Press the ◄ or ► button to select a sorting standard.
- 3. Press the ▼ or ENTER I button to move to the Group List Section.
- 4. Press the 🕨 (Play) button. The files of the selected group will start playing.

#### Alternatively

- 2. Press the TOOLS button.
- Press the ▲ or ▼ button to select Play Current Group, then press the ENTER → button.
   The music files in the sorting group including the selected file are played.

#### Playing the selected music files

- 1. Press the ▼ button to select the File List Section.
- 2. Press the ◀ or ► button to select the desired music file.
- 3. Press the Yellow button.
- 4. Repeat the above operation to select multiple music files.
  - ${\Bbb D}$  The  $\checkmark$  appears to the left of the selected music file.
  - I To deselect all selected files, press the TOOLS button and select Deselect All.
- 5. Press the 
  (Play)/ENTER 
  button.
  - The selected files will be played.



English - 48

# **Music Play option Menu**

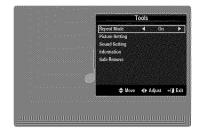
#### **Music Play Option Menu**

- ❑ Repeat Mode → On / Off You can play music files repeatedly.
- Picture Setting / Sound Setting
   You can configure the picture and sound settings.
- Information

The music file information is displayed.

Safe Remove

You can remove the device safely from the TV.



# Sorting the Movie List

You can sort movies in the Movie List by a particular standard.

- 1. Press the MEDIA.P button.
- 2. Press the ◄ or ► button to select Movie, then press the ENTER 🖃 button.
- 3. Press the **▲** button to move to the Sort key Section.
- Press the ◄ or ► button to select a sorting standard. (Basic View, Timeline, Title, Folder, Preference)

 $\ensuremath{\mathbb{Z}}$  The movie files are sorted according to the newly selected sorting standard.

Press the 
 (Play)/ENTER 
 button to play the movie in the order selected.
 Movie information is automatically set. You can change the preference.



#### Basic View

Shows the folders of the USB memory device. If you select a folder and press the ENTER 🖃 button, only the movie files contained in the selected folder are displayed.

Description When sorted according to the Basic View, you cannot set Favorite files.

□ Timeline

Sorts movies by date. It sorts by year and month from the earliest movie.

#### Title

Sorts and displays the movie titles in symbol/number/alphabet/special order.

## Folder

If there are many folders in USB, the movies files are shown in order in each folder. The movie file in the Root folder is shown first and the others are shown in alphabetical order by name.

## 

Sorts movies by preference. (Favorite) You can change the movie preferences.

- Changing the Favorites Setting
  - Select the desired movie file in the File List Section, then press the Green button repeatedly until the desired setting appears.
- $\square$  Up to 3 stars can be selected.
- Image: The stars are for grouping purposes only. For example, the 3 star setting does not have any priority over the one star setting.

# **Movie List Option Menu**

- 1. Press the MEDIA.P button.
- 2. Press the ◄ or ► button to select Movie, then press the ENTER 🖃 button.
- 3. Press the ◀ or ► button to select the desired Movie file.
  - Ø Selecting Multiple Movie Files
    - Press the ◀ or ► button to select the desired movie file. Then press the Yellow button.
    - Repeat the above operation to select multiple movie files.
    - The mark 🗸 appears to the selected movie file.
- 4. Press the TOOLS button.
  - ${\ensuremath{\mathbb D}}$  The option menu changes according to the current status.

## Play Current Group

Using this menu, you can only play movie files in the currently selected sorting group.

## Deselect All (When at least one file is selected)

You can deselect all files.

 ${\mathbb Z}$  The  $\checkmark$  mark indicating the corresponding file is selected is hidden.

## □ Information

The movie file information including the name, the size, the date modified and the path is displayed.

 $\ensuremath{\textcircled{}}$  Press the INFO button to viewing the information.

## Safe Remove

You can remove the device safely from the TV.

# **Playing a Movie File**

## Playing a movie file

- 1. Press the ▼ button to select the File List Section.
- 2. Pressing the ◀ or ► button to select a movie file to be played.
- 3. Press the 🕨 (Play)/ENTER 🚭 button.
  - The selected file is played.
  - ${\ensuremath{\mathbb D}}$  The selected file is displayed at the top with its playing time.
  - 0 The playing duration of a movie file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
  - You can watch exciting gaming multimedia files, but the gaming function is not supported.





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MEDIA



# Ø 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

# Ø Supported Movie Formats

ile extension	Container	Video Decoder	Audio codec	Resolution
		Divx 3.11 / 4.x / 5.1 / 6.0		720x576
		XviD	MP3	1920x1080
*.avi	AVI	H.264 BP / MP / HP	AC3 LPCM	1920x1080
		MPEG4 SP / ASP	ADPCM	1920x1080
		Motion JPEG		800x600
		Divx 3.11 / 4.x / 5.1 / 6.0		720x576
		XviD	MP3	1920x1080
*.mkv	MKV	H.264 BP / MP / HP	AC3 LPCM	1920x1080
		MPEG4 SP / ASP	ADPCM	1920x1080
		Motion JPEG		800x600
		Divx 3.11 / 4.x / 5.1 / 6.0		720x576
		XviD	MP3 AC3	1920x1080
*.asf	ASF	H.264 BP / MP / HP	LPCM ADPCM WMA	1920x1080
		MPEG4 SP / ASP		1920x1080
		Motion JPEG		800x600
*.wmv	ASF	VC1	WMA	1920x1080
		H.264 BP / MP / HP	MP3	1920x1080
*.mp4	MP4 (SMP4)	MPEG4 SP / ASP	ADPCM	1920x1080
	(2	XVID	AAC	1920x1080
* 0	2000	H.264 BP / MP / HP	ADPCM	1920x1080
*.3gp	3GPP	MPEG4 SP / ASP	AAC	1920x1080
*	VRO	MPEG2	AC3	1920x1080
*.vro	VOB	MPEG1	MPEG LPCM	1920x1080
*.mpg		MPEG1	AC3	1920x1080
*.mpeg	PS	MPEG2	MPEG PCM	1920x1080
*.ts		MPEG2		1920x1080
*.tp	TS	H.264	AAC MP3	1920x1080
*.trp		VC1	IVII O	1920x1080

#### Video Play Control Buttons

Button	Operations
ENTER 🗬	Play/Pause the movie file
	Play the movie file
II	Pause the movie file
TOOLS	Run various functions from the Movie menus.
	Exit play mode and return to the movie list.
	Skip forwards or backwards through the movie file.
▲ / ▼	Move to the first/last of the file.
**	Play the file at double speed. This function may not be supported depending on the movie file.

#### Playing the movie group

- 1. Press the **▲** button to move to the Sort key Section.
- 2. Press the ◀ or ► button to select a sorting standard.
- 3. Press the ▼ or ENTER button to move to the Group List Section.
- 4. Press the 🗩 (Play) button. Only the files of the selected group will start playing.

#### Alternatively

- Select a Sort key and then in the File List Section, select the files contained in the desired group.

   ∑ To move to the previous/next group, press the 

   (REW) or 

   (FF) button.
- 2. Press the TOOLS button.

## Playing the selected movie files

- 1. Press the ▼ button to select the File List Section.
- 2. Press the ◀ or ► button to select the desired movie file.
- 3. Press the Yellow button.
  - ${\mathbb Z}$  The  $\checkmark$  mark appears to the left of the selected movie file.
  - I To deselect all selected files, press the TOOLS button and select Deselect All.
- 4. Repeat the above operation to select multiple movie files.
- Press the ► (Play)/ENTER ➡ button.
   Ø Only the selected file is played.

## Playing movie continuously (Resume Play)

- If you exit the playing movie function, the movie can be played later from the point where it was stopped.
- 1. 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 🕨 (Play)/ENTER 🚭 button.
- 3. Select Play Continuously (Resume Play) by pressing the Blue button.
  - The Movie will begin to play from where it was stopped.
  - If Continuous Movie Play Help function is set On in the Setup menu, a pop-up message will appear when you resume play a movie file.

# **Movie Play Option Menu**

## **Movie Play Option Menu**

- □ Repeat Mode → On / Off You can play movie files repeatedly.
- Picture Setting / Sound Setting
   You can configure the picture and sound settings.

## Picture Size

- Fit Play video at the TV screen size.
- Original Play video at the original size.

## Caption Setting

You can set the captions for the movie.

- Caption SyncYou can adjust the caption sync.
- Caption Sync Reset You can reset the adjusted caption sync.
- Information
   The movie file information is displayed.
- Safe Remove

You can remove the device safely from the TV.



# English - 53

# **Using the Setup Menu**

Setup displays the user settings of the Media Play menu.

- 1. Press the MEDIA.P button.
- 2. Press the ◄ or ► button to select Setup, then press the ENTER 🛩 button.
- 3. Press the  $\blacktriangle$  or  $\blacktriangledown$  button to select the desired option.
- 4. Press the ◀ or ► button to select the desired option.

D To exit Media Play mode, press the MEDIA.P button on the remote control.

 $\blacksquare$  Use Color View  $\rightarrow$  On / Off

You can select sorting photos by Color. If this option is set to On, the loading time may be increased to collect Color information from the photos.

#### ■ Continuous Movie Play Help → On / Off

Select to display the help pop-up message for continuous movie playback.

#### Get 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 the VOD registration file.

If you play the VOD registration using Media Play, the registration is completed. Promore information on DivX® VOD, visit www.DivX.com.

#### Get 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 viewing the information of the connected device.

Safe Remove

You can remove the device safely from the TV.

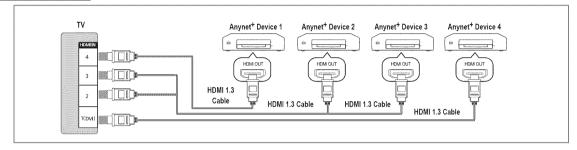
Med	lia Play		SU	851.86¥8/9	193.42888 Free
	0	SETUP	)		
		Ę	*	Ó	
	Photo	Music	Movie	Setup	
SUL	Bevice 🛞				+ 🗊 Exit
Sot	1877				
	Use Color View	4	Off	*	
			Off On	*	
	Use Color View	vie Play Help	Ôn	*	
	Use Color View Continuous Mo	vie Play Help ID registration (	On code	•	
	Use Color View Continuous Mo Get DivX(R) VC	vie Play Help )D registration ( )D deactivation	On code	*	
	Use Color View Continuous Mo Get DivX(R) VC Get DivX(R) VC	vie Play Help )D registration ( )D deactivation	On code code	\$	
	Use Color View Continuous Mo Get DivX(R) VC Get DivX(R) VC Screen Saver R	vie Play Help )D registration ( )D deactivation	On code code	۵	
	Use Color View Continuous Mo Get DivX(R) VC Get DivX(R) VC Screen Saver R Information	vie Play Help ID registration ( ID deactivation lun Time	On code 4 hours	<b>b</b> g the Color	

# **Connecting Anynet+ Devices**

#### What is Anynet+?

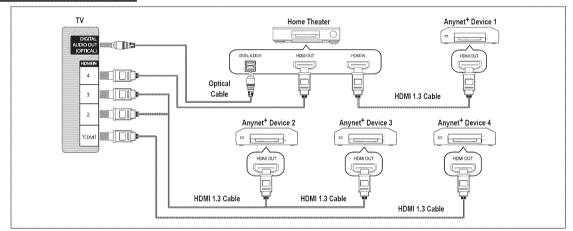
Anynet<sup>+</sup> is a function that enables you to control all connected Samsung devices that support Anynet<sup>+</sup> with your Samsung TV's remote. The Anynet<sup>+</sup> system can be used only with Samsung devices that have the Anynet<sup>+</sup> feature. To be sure your Samsung device has this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

# To connect to a TV



1. Connect the HDMI IN (1(DVI), 2, 3 or 4) jack on the TV and the HDMI OUT jack of the corresponding Anynet<sup>+</sup> device using an HDMI cable.

## To connect to Home Theater



- 1. Connect the HDMI IN (1(DVI), 2, 3 or 4) jack on the TV and the HDMI OUT jack of the corresponding Anynet<sup>+</sup> device using an HDMI cable.
- 2. Connect the HDMI IN jack of the home theater and the HDMI OUT jack of the corresponding Anynet<sup>+</sup> device using an HDMI cable.
  - Connect the Optical cable between the DIGITAL AUDIO OUT (OPTICAL) jack on your TV and the Digital Audio Input on the Home Theater.
  - When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theater'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 (ie Anynet Device 1 or 2) directly to the Amplifier or Home Theater, not the TV.

  - Ø You can connect an Anynet<sup>+</sup> device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet<sup>+</sup> functions.
  - Ø Anynet<sup>+</sup> works when the AV device supporting Anynet<sup>+</sup> 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.

English - 55

# Setting Up Anynet+

Press the TOOLS button to display the Tools menu. You can also display Anynet<sup>+</sup> menu by selecting Tools → Anynet<sup>+</sup> (HDMI-CEC).

## Setup

- Anynet<sup>+</sup> (HDMI-CEC) → Off / On
  - To use the Anynet<sup>+</sup> Function, Anynet<sup>+</sup> (HDMI-CEC) must be set to On.
  - When the Anynet<sup>+</sup> (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated.

🔳 Auto Turn Off --- No / Yes

Setting an Anynet<sup>+</sup> Device to turn Off automatically when the TV is turned Off.

- Descrive source on the TV remote must be set to TV to use the Anynet+ function.
- If you set Auto Turn Off to Yes, connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off.

# Switching between Anynet<sup>+</sup> Devices

- 1. Press the TOOLS button. Press the ENTER I button to select Anynet+ (HDMI-CEC).
- 2. Press the ▲ or ▼ button to select Device List, then press the ENTER 🚭 button.
  - Ø Anynet<sup>+</sup> devices connected to the TV are listed.
  - If you cannot find a device you want, press the red button to scan for devices.
- 3. Press the ▲ or ▼ button to select a particular device and press the ENTER → button. It is switched to the selected device.
  - Only when you set Anynet<sup>+</sup> (HDMI-CEC) to On in the Application menu, the Device List menu appears.
- Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
- ${\ensuremath{\mathbb D}}$  The time required to scan for devices is determined by the number of connected devices.
- Ø When the device scan is complete, the number of devices found are not displayed.
- Although the TV automatically searches the device list when the TV is turned on via the power button, devices connected to the TV may not always be automatically displayed in the device list. Press the red button to search for the connected device.
- If you have selected external input mode by pressing the SOURCE button, you cannot use the Anynet<sup>+</sup> function. Make sure to switch to an Anynet<sup>+</sup> device by using the Device List.

## Anynet<sup>+</sup> Menu

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

Anynet <sup>+</sup> Menu	Description
View TV Anynet <sup>+</sup> mode changes to TV broadcast mode.	
Device List Shows the Anynet <sup>+</sup> 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).



⇔ Move ⊡ Enter "⊃ R

.⊅ InfoLink			
livnet*	Setup		-52
Anynet+ (HDMI-CEC)	: 0	'n	Cler.
Auto Turn Off	: ¥o	15	
Auto Turn Off	: Ye \$ Move	is F Enter	D P
Auto Turn Off			21
	🗢 Move	📑 Enter	21

Media Play (USB)

Anynet+ (HDMI-CEC)

## TV Remote Control Buttons Available in Anynet<sup>+</sup> Mode

Device Type	Operating Status	Available Buttons
Anynet <sup>+</sup> Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/ ◀/▶/ ENTER I buttons Color buttons / EXIT button
	After switching to the device, while playing a file	(Backward search) / ► (Forward search) / (Stop) / ► (Play) / □ (Pause)
Device with built-in After switching to the device, when you are watching a TV program		✓ CH ∧ button
Audio Device	When Receiver is activated	- VOL + / MUTE button

- Description only works when the active source on the TV remote control is set to TV.
- Description The Description works only while in the recordable state.
- You cannot control Anynet<sup>+</sup> devices using the buttons on the TV. You can control Anynet<sup>+</sup> devices only using the TV remote control.
- Derived The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- Description of the Anynet+ functions do not operate with other manufacturers' products.
- The , perations may differ depending on the device.

# Recording

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

- 1. Press the TOOLS button. Press the ENTER I button to select Anynet+ (HDMI-CEC).
- Press the ▲ or ▼ button to select Recording Immediately and press the ENTER button. Recording begins.
  - $\swarrow$  When there is more than one recording device
    - When multiple recording devices are connected, the recording devices are listed. Press the ▲ or ▼ button to select a recording device and press the ENTER ⊡ button. Recording begins.
  - D When the recording device is not displayed select Device List and press the Red button to search devices
- 3. Press the EXIT button to exit.
  - Ø You can record the source streams by selecting **Recording:** (device\_name).
  - Pressing the 
    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 (Home Theater)

You can listen to sound through a receiver instead of the TV speaker.

- 1. Press the TOOLS button. Press the ENTER I button to select Anynet+ (HDMI-CEC).
- 2. Press the ▲ or ▼ button to select Receiver. Press the ◄ or ► button to select On or Off.
- 3. Press the EXIT button to exit.
  - D 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 (home theater) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home Theater 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 Home Theater receiver.
  - If there is a power interruption to the TV when the Receiver is set to On (by disconnecting the power cord or a power failure), the Speaker Select may be set to External Speaker when you turn the TV on again.



Anynet*			
View TV			
Device List			
Recording: DVDR			
DVDR MENU			
DVDR INFO			
Receiver: Olf		10102112556544	
Setup			
	💠 Move	🖃 Enter	D Return

Problem	Possible Solution
Anynet+ does not work.	• Check if the device is an Anynet <sup>+</sup> device. The Anynet <sup>+</sup> system supports Anynet <sup>+</sup> devices only.
	Connect only one receiver (home theater).
	Check if the Anynet <sup>+</sup> device power cord is properly connected.
	Check the Anynet <sup>+</sup> device's Video/Audio/HDMI 1.3 cable connections.
	Check whether Anynet <sup>+</sup> (HDMI-CEC) is set to On in the Anynet <sup>+</sup> setup menu.
	Check whether the TV remote control is in TV mode.
	Check whether it is Anynet <sup>+</sup> exclusive remote control.
	Anynet <sup>+</sup> doesn't work in certain situations. (Searching channels, Operating Media Play, Plug & Play, etc.)
	When connecting or removing the HDMI 1.3 cable, please make sure to search devices again of turn your TV off and on again.
	Check if the Anynet <sup>+</sup> Function of Anynet <sup>+</sup> device is set on.
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 TV button on the TV remote control to switch to TV. Then press the <b>TOOLS</b> button to show the Anynet <sup>+</sup> menu and select a menu you want.
want to exit Anynet+.	Select View TV in the Anynet <sup>+</sup> menu.
	• Press the <b>SOURCE</b> button on the TV remote control and select a device other than Anynet <sup>+</sup> devices.
	• Press V CH A, CH LIST, PRE-CH, and FAV.CH to change the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet <sup>+</sup> device is not connected.)
The message 'Connecting to Anynet+ device' appears on	<ul> <li>You cannot use the remote control when you are configuring Anynet<sup>+</sup> or switching to a view mode.</li> </ul>
he screen.	Use the remote control when the Anynet <sup>+</sup> setting or switching to view mode is complete.
The Anynet+ device does not blay.	You cannot use the play function when Plug & Play is in progress.
The connected device is not	Check whether or not the device supports Anynet <sup>+</sup> functions.
lisplayed.	Check whether or not the HDMI 1.3 cable is properly connected.
	• Check whether Anynet <sup>+</sup> (HDMI-CEC) is set to On in the Anynet <sup>+</sup> setup menu.
	Search Anynet <sup>+</sup> devices again.
	<ul> <li>You can connect an Anynet<sup>+</sup> device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet<sup>+</sup> functions.</li> </ul>
	<ul> <li>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.</li> </ul>
The TV program 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.

# InfoLink

# **Using InfoLink**

You can view news, stock market and weather information services using SAMSUNG's InfoLink service.

- Por more information on how to configure your network, refer to 'Setting the Network'. (see pages 30~35)
- Information provided by USA TODAY via InfoLink is for the United States only. Information for other countries is not provided.

#### Activating InfoLink

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select Application, then press the ENTER button.
- 2. Press the ▲ or ♥ button to select InfoLink, then press the ENTER button.
- 3. Press the ◀ or ► button to select a service (Weather, News, Stocks or Setup) and press the ENTER 🖃 button.
- B Press the INFO.L button on the remote control to display the InfoLink menu.

# Using the Weather Service

- 1. Press the INFO.L button on the remote control.
- 2. Press the ◄ or ► button to move to the Weather service and press the ENTER 🖃 button.

#### Set up the Region

Press Yellow button. Input the postal (zip) code of the region by pressing the number buttons on the remote, then pres s the ENTER I button.
 You can check the weather of the selected region.

## Set up Weather Option

- 4. Press the Red button while using the service to change the Weather service option.
- 5. Press ▲ or ♥ button and select Weather option.
- Derived To exit the Weather service, press the Blue button.
- Derived To exit the InfoLink service, press the EXIT button.







# **Using the News Service**

- Derived The news provider may be changed in the future.
- 1. Press the INFO.L button on the remote control.
- Press the ◄ or ► button to move to the News service and press the ENTER button.
   Press the ENTER button to view the detailed article.
- 3. Press the Red button while using the service to change the News service Option.
- 4. Press ▲ or ♥ button and select News service option.
- Image: The News service option changes depending on the provided web service.
- $\square$  To exit the **News** service, press the Blue button.
- D To exit the InfoLink service, press the EXIT button.

# Using the Stock Service

- 1. Press the INFO.L button on the remote control.
- 2. Press the ◄ or ► button to move to the Stocks service and press the ENTER 🚭 button.
- 3. Press the Red button while using the service to change the **Stocks** service option.
- 4. Press ▲ or ▼ button and select Stocks service option, then press the ENTER 🖼 button.

#### Favorite Stocks

The Favorite stock information is displayed. You can set up the Favorite Stocks by pressing the Yellow button.

#### Market Summary

Dow Jones, NASDAQ and S&P 500 are toggled and the entire index, amount of up or down, and % are displayed.

#### Stocks & News

The Favorite stock information and Dow Jones, NASDAQ and S&P 500 index and Financial news are displayed.

- Ø Stock quotes delayed at least 15 minutes.
- $\square$  To exit the **Stocks** service, press the Blue button.
- It To exit the InfoLink service, press the EXIT button.

#### Setting Favorite Stocks Items

- 1. Press the Yellow button when **Favorite Stocks** or **Stocks & News** is selected. The Set Favorite Stocks screen appears.
- Press ◄ or ➤ button to move to the Category. Press the ▲ or ▼ button to select a Category. Press the ENTER button.
- 3. Press the ▲ or ▼ button to select a stock item and press the ENTER button.
  - Description: The selected stock is set as a **Favorite Stock**.
  - $\bigcirc$  The  $\checkmark$  mark will appear to the left of the stock name.
  - Press the ENTER I button again to cancel the setting. The mark will disappear.
  - I To cancel all selections, press the Green button.
  - Pressing the Red button toggles between NYSE and NASDAQ.
- 4. To finish the settings, press the RETURN button.



	22	А	AGILENT TECHNOLGIES, INC.
C - E		AA	ALCOA INC.
F-H		AAI	AIRTRAN HOLDING, INC
1-K	32	AAR	AMR CORPORATION
i 7i	22	AAB	ABB ASEA BROWN BOVERI LT.
v			





# InfoLink Setup

- 1. Press the INFO.L button on the remote control.
- 2. Press the ◄ or ► button to select Setup, then press the ENTER 🖼 button.
- 3. Press the ▲ or ▼ button to select the desired option, then press the ENTER 🚭 button.
- D To exit the Setup service, press the RETURN button.
- Devit the InfoLink service, press the EXIT button.

#### Auto Launch

Determines whether to launch InfoLink automatically when the TV is turned on. You can select either Off or On.

#### Display Time

Determines the time to display the news service on the TV screen. You can select 4 Hours, 8 Hours, 10 Hours, or Always.

#### Font Size

You can select letter size Standard or Large through InfoLink service.

#### Background Color

You can select the Background Color of InfoLink service. The color is applied to each service, option and setup window.

#### InfoLink's Position

You can set the position of each InfoLink service on the screen. You can select from six preset InfoLink positions (**Position** 1~Position 6).

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InfoLink's Setup				
Auto Launch	: Off			
Display Time	: 4 Hours			
Font Size	: Standard			
Background Color	: Black			
InfoLink's Position				
	🗢 Move 🖃 Select ") Return			

# Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution		
Poor picture.	Try another channel. / Adjust the antenna. / Check all wire connections.		
Poor sound quality.	Try another channel. / Adjust the antenna.		
No picture or sound.	Try another channel. / Press the <b>SOURCE</b> button. Make sure the TV is plugged in. / Check the antenna connections.		
No sound or sound is too low at maximum volume.	First, check the volume of units connected to your TV (digital broadcasting receiver, E cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly.		
Picture rolls vertically.	Check all wire connections.		
There is a problem with the picture	Run the Picture test in the Self diagnostic menu.		
There is a problem with the sound	Run the Sound test in the Self diagnostic menu.		
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.		
The TV won't turn on.	Make sure the wall outlet is working.		
Remote control malfunctions.	Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.		
'Check signal cable' message.	Ensure that the signal cable is firmly connected to the PC source.		
'Not Supported Mode' message.	Check the maximum resolution and connected device's Video frequency. Compare these values with the data in the Display Modes.		
Digital broadcasting screen problem.	Please check the digital signal strength and input antenna.		
The image is too light or too dark.	Adjust the Brightness and Contrast. / Adjust the Fine tuning.		
Black bars on the screen.	Make sure the broadcast you're receiving is High Definition (HD). HD channels sometimes broadcast Standard Definition (SD) programming, which can cause black bars. Set your cable/satellite box to stretch or widescreen mode to eliminate the bars.		
Picture has a Red/Green or Pink Make sure the Component cables are connected to the correct jacks.			
Closed Captioning not working. If you are using a Cable/Satellite box, you must set Closed Captioning on your TV.			
Snowy picture. Your cable box may need a firmware upgrade. Please contact your Cable co			
Ghosting on picture.	This is sometimes caused by compatibility issues with your cable box. Try connecting Component cables instead.		
Horizontal bars appear to flicker, jitter or shimmer on the image.	Adjust the Coarse tuning and then adjust the Fine tuning.		
Vertical bars appear to flicker, jitter or shimmer on the image.	Adjust the Coarse tuning and then adjust the Fine tuning.		
Screen is black and power indicator         On your computer check: Power, Signal Cable.           light blinks steadily.         The TV is using its power management system.           Move the computer's mouse or press any key on the keyboard.			

Problem	Possible Solution
Image is not stable and may appear to vibrate when you have a computer connected to the PC input.	If the setting is not correct, use your computer utility program to change the display settings. Your TV supports multiscan display functions within the following frequency domain: - Horizontal frequency (KHz): 30~60 - Vertical frequency (Hz): 60~75 - PC Maximum refresh rate (at 60 Hz): 1920 x 1080
Image is not centered on the screen.	Adjust the horizontal and vertical position. The screen position must be adjusted on the output source (i.e. STB) with a digital signal.
The picture appears distorted in the corner of the screen.	If <b>Screen Fit</b> is selected with some external devices, the picture may appear distorted in the corner of the screen. This symptom is caused by the external devices, not TV.
The 'Resets all settings to the default values.' message appears.	This appears when you press and hold the <b>EXIT</b> button for a while. The product settings are reset to the factory defaults.

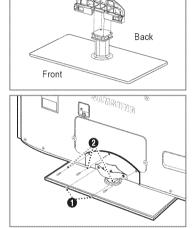
This TFT LED panel uses a panel consisting of sub pixels (6 220 800) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

# Installing the Stand

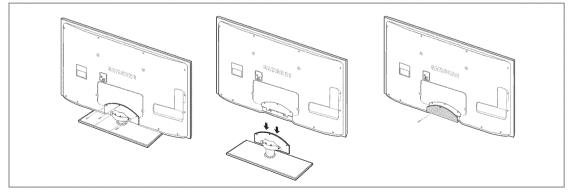
Preset: Place the Guide Stand and Cover Neck onto the stand and fasten it using the screws. Applicable to models (UN32B6000) only.



- ${\ensuremath{\mathbb D}}$  Two or more people should carry the TV.
- Make sure to distinguish between the front and back of the stand when attaching it.
- To make sure the TV is installed on the stand at a proper level, do not apply excess downward pressure to the upper left of right sides of the TV.
- 2. Fasten screws at position () and then fasten screws at position (2).
  - $\bigcirc$  Stand the product up and fasten the screws. If you fasten the screws with the LED TV placed down, it may lean to one side.



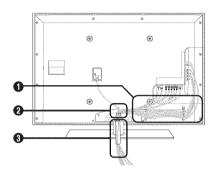
# **Disconnecting the Stand**

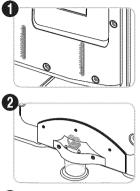


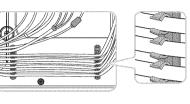
- 1. Remove screws from the back of the TV.
- Separate the stand from the TV.
   Two or more people should carry the TV.
- 3. Cover the bottom hole with the cover.

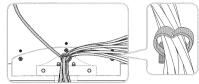
# □ Stand Type

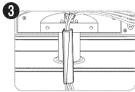
Ø Enclose the cables in the Holder-Wire Cable so that the cables are not visible through the transparent stand.



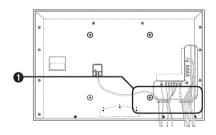


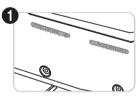


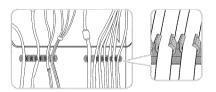




Wall-Mount Type







# Wall Mount Kit Specifications (VESA)

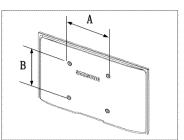
Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

- Ø Standard dimensions for wall mount kits are shown in the table above.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- D Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- Por wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Ø Do not use screws that do not comply with the VESA standard screw specifications.
- Do not fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57" and 63" models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- D Do not exceed 15 degrees tilt when mounting this TV.

Product Family	inches	VESA Spec. (A * B)	Standard Screw	Quantity	
	19~22	100 X 100	N#4		
	23~29	200 X 100	M4		
	30~40	200 X 200	M6		
LED-TV	46~55	400 X 400		4	
	57~70	800 X 400	M8		
	80~	1400 X 800			
	42~50	400 X 400	M8 4		
	58~63	600 X 400			
PDP-TV	70~	800 X 400		4	
	80~	1400 X 800			
	30~39	200 X 200	M6		
	40~52	400 X 400			
LFD	55~70	800 X 400	M8	4	
	70~	1400 X 800			

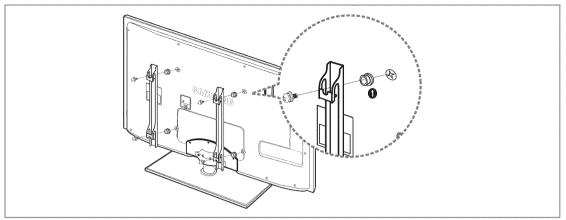


Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.



# Preparing before installing Wall-Mount

To install a wall-mount from another manufacturer, use the Holder-Ring ()

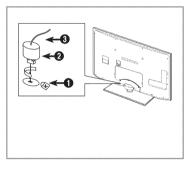


# Anti-Theft Kensington Lock

The Kensington Lock is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer.

Refer to the manual provided with the Kensington Lock for proper use.

- ${\ensuremath{\mathbb D}}$  The locking device has to be purchased separately.
- ${\ensuremath{\mathbb D}}$  The location of the Kensington Lock may be different depending on its model.
- 1. Insert the locking device into the Kensington slot on the LED TV (1) and turn it in the locking direction (2).
- 2. Connect the Kensington Lock cable (3).
- 3. Fix the Kensington Lock to a desk or a heavy stationary object.



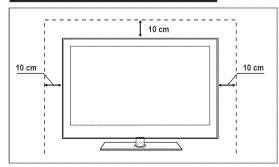
# Securing the Installation Space

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

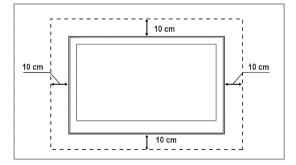
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product. Install the product so the required distances shown in the figure are kept.

- Ø When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.
- $\ensuremath{\mathbb{D}}$  The appearance may differ depending on the product.

## When installing the product with a stand



## When installing the product with a wall-mount



# Securing the TV to a Wall or Cabinet



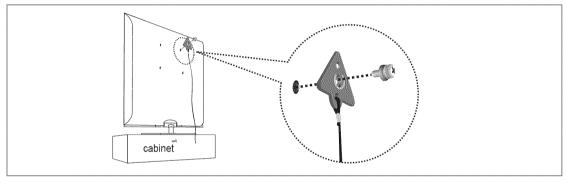
**Caution**: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For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

#### Components (Depending on the model):

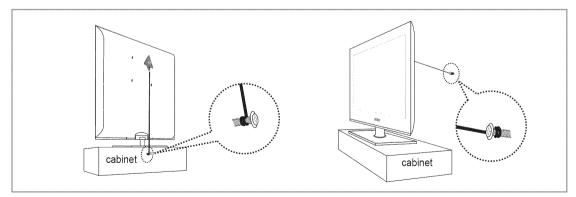


#### To prevent the TV from falling:

- 1. Remove the screw from the top right of the rear cover of the TV. Fasten the TV-Holder to the TV by fastening Screw () (for fixing the TV) into the screw hole.
  - Make sure to only use the supplied screws.



- 2. Firmly fasten the screws to the wall or cabinet where the TV is to be installed. Tie the TV-Holder attached to the TV and the screws fastened on the wall or cabinet so that the TV is fixed.
  - Purchase the screws to be used on the wall or cabinet separately.
  - Install the TV close to the wall so that it does not fall.
  - Description with the work of the wall, the the cord level with the ground or slanted downwards for safety purposes.
  - Confirm that the cord or link does not come loose.
  - Ø Before moving the TV, separate the connected cord first.



3. Verify all connections are properly secured. Periodically check connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.

# English - 67

# Specifications

Model Name	UN32B6000
Screen Size (Diagonal)	32 inches (31.5 inches measured diagonally)
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz
Sound (Output)	10W x 2
Dimensions (WxDxH) Body With stand	31.5 x 1.2 x 20.5 (inch) / 799 x 29.9 x 520.9 (mm) 31.5 x 10.0 x 22.8 (inch) / 799 x 255 x 579.9 (mm)
Weight Without Stand With Stand	21.9 lbs / 9.95 Kg 30.3 lbs / 13.75 Kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing
Stand Swivel (Left / Right)	-20° ~ 20°

Model Name	UN40B6000
Screen Size (Diagonal)	40 inches (40.0 inches measured diagonally)
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz
Sound (Output)	10W x 2
Dimensions (WxDxH) Body With stand	38.7 x 1.2 x 24.8 (inch) / 983 x 29.9 x 631 (mm) 38.7 x 10.0 x 27.1 (inch) / 983 x 255 x 688 (mm)
Weight Without Stand With Stand	32.4 lbs / 14.7 Kg 40.6 lbs / 18.4 Kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing
Stand Swivel (Left / Right)	-20° ~ 20°

Model Name	UN46B6000
Screen Size (Diagonal)	46 inches (46.0 inches measured diagonally)
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz
Sound (Output)	10W x 2
Dimensions (WxDxH) Body With stand	43.9 x 1.2 x 27.8 (inch) / 1129 x 29.9 x 705 (mm) 43.9 x 10.8 x 30.0 (inch) / 1129 x 275 x 763 (mm)
Weight Without Stand With Stand	39.7 lbs / 18.0 Kg 50.3 lbs / 22.8 Kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing
Stand Swivel (Left / Right)	-20° ~ 20°

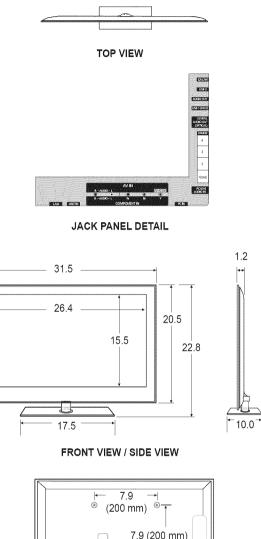
Model Name	UN55B6000
Screen Size (Diagonal)	55 inches (54.7 inches measured diagonally)
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz
Sound (Output)	15W x 2
Dimensions (WxDxH) Body With stand	51.5 x 1.2 x 32.1 (inch) / 1307 x 29.9 x 815 (mm) 51.5 x 12.0 x 34.4 (inch) / 1307 x 305 x 873 (mm)
Weight Without Stand With Stand	49.4 lbs / 22.4 Kg 60.8 lbs / 27.6 Kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing
Stand Swivel (Left / Right)	-20° ~ 20°

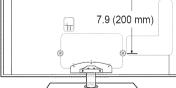
D Design and specifications are subject to change without prior notice.

Derived This device is a Class B digital apparatus.

D  $\$  For the power supply and Power Consumption, refer to the label attached to the product.

#### UN32B6000

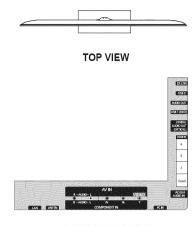




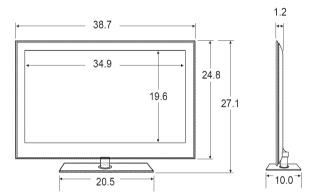
#### REAR VIEW

English - 70

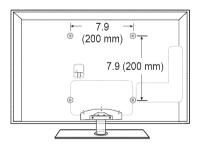
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JACK PANEL DETAIL

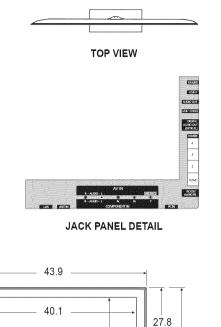


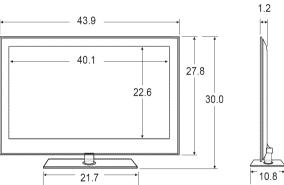
FRONT VIEW / SIDE VIEW



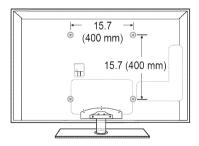
REAR VIEW

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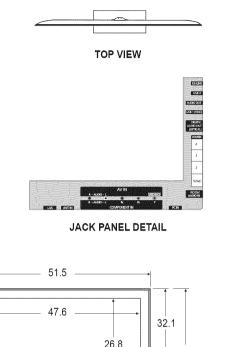


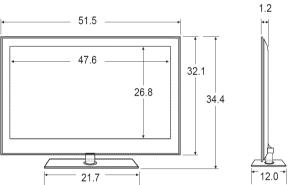
FRONT VIEW / SIDE VIEW



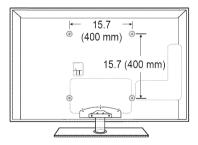
REAR VIEW

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FRONT VIEW / SIDE VIEW



REAR VIEW

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GPL software: Linux Kernel, Busybox, Binutils

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#### Version 3, 29 June 2007

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# D Precauciones al mostrar en la pantalla una imagen fija

La imagen fija puede causar daños permanentes en la pantalla del televisor.

No deje una imagen fija en la pantalla LED durante más de dos horas ya que se podría producir una retención de la imagen en la
pantalla. Este fenómeno de retención de imágenes también se denomina quemadura de pantalla. Para evitar que se produzca esa
persistencia de la imagen, reduzca el nivel de brillo y de contraste de la pantalla cuando muestre imágenes fijas.



El uso del televisor LED en formato 4:3 durante un tiempo prolongado puede dejar rastros de bordes en las partes izquierda, derecha y central de la pantalla debido a las diferencias en la emisión lumínica de la pantalla. Reproducir un DVD o una videoconsola puede causar un efecto similar en la pantalla. La garantía no cubre estos

Reproducir un DVD o una videoconsola puede causar un efecto similar en la pantalla. La garantia no cubre estos daños.

• Ver imágenes fijas de videojuegos y PC durante más tiempo del indicado puede producir imágenes fantasma parciales. Para evitar este efecto, reduzca el 'brillo' y el 'contraste' cuando vea imágenes fijas.

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