SAMSUNG

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

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

BN68-01929A-01

LCD TV
user manual

imagine the possibilities

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

www.samsung.com/register

Model _____ Serial No. _____

SAMSUNG

❏ **License**

Without producing harmful VOC (Volatile Organic Compounds), Samsung's Eco-friendly "Crystal Design" expresses colour gradation thanks to our dual injection technology.

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

❏ **Precautions When Displaying a Still Image**

A still image may cause permanent damage to the TV screen
- Do not display still image and partially still on the LCD 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 LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause 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.

CONTENTS

❏ **Symbol**

| ✐	☝	↗
Note	One-Touch Button	TOOL Button

SETTING UP YOUR TV

☑ 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.

Viewing the Control Panel

☑ The product colour and shape may vary depending on the model.
☑ The front panel buttons can be activated by touching them with your finger.
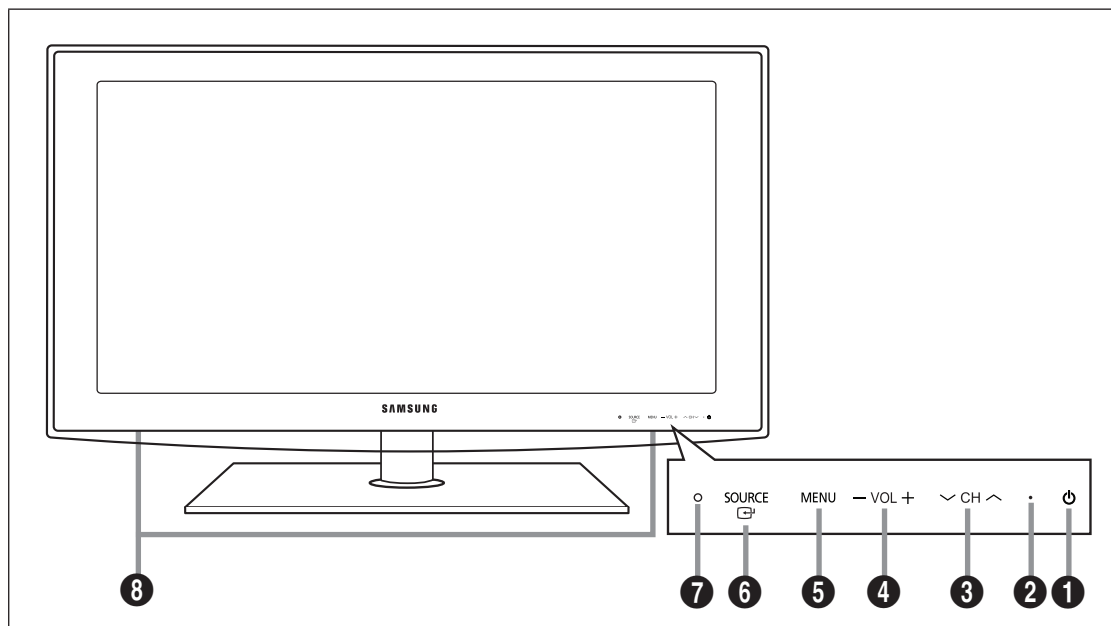
❶ ⏻ **(POWER)**: Press to turn the TV on and off.

❷ **POWER INDICATOR**: Blinks and turns off when the power is on and lights up in stand-by mode.

❸ ∨ **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.

❹ − **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.

❺ **MENU**: Press to see an on-screen menu of your TV's features.

❻ **SOURCE** ⏎: Toggles between all the available input sources. In the on-screen menu, use this button as you would use the **ENTER** ⏎ button on the remote control.

❼ **REMOTE CONTROL SENSOR**: Aim the remote control towards this spot on the TV.

❽ **SPEAKERS**

Accessories

Remote Control & Batteries (AAA x 2)	Power Cord	Stand Screw (M4 X L16)
Cover-Bottom	Cleaning Cloth	Stand Screw (M4 X L14) (Depending on the model)
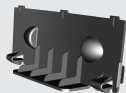
● Owner's Instructions	● Warranty card	● Safety Guide	● Registration Cards

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

✍ Warranty card / Safety Guide / Registration Cards (Not available in all locations)

✍ The items colour and shape may vary depending on the model.

Viewing the Connection Panel

[TV Rear Panel]

[TV Side Panel]

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

❶ **AV IN 1, 2 [VIDEO] / [R-AUDIO-L]**
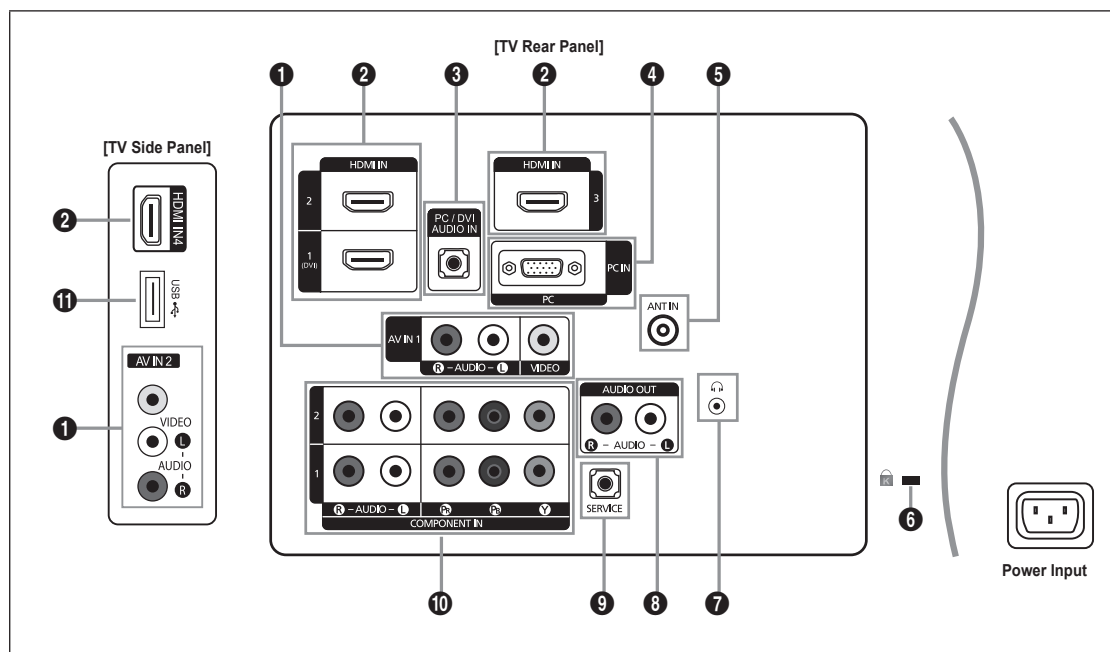 – Connect RCA cable to an appropriate external A/V device such as VCR, DVD or Camcorder.
  – Connect RCA audio cables to **[R-AUDIO-L]** on your set and the other ends to corresponding audio out connectors on the A/V device.

❷ **HDMI IN 1(DVI), 2, 3, 4**
  Connects to the HDMI jack of a device with an HDMI output.
  N No additional Audio connection is needed for an HDMI to HDMI connection.
  N 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.
  N The TV may not output sound and pictures may be displayed with abnormal colour when DVD / Blu-ray player / Cable Boxes / Satellite receivers 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.
  N 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.
  N HDMI cables that are not 1.3 may cause annoying flicker or no screen display.

❸ **PC/DVI AUDIO IN**
  – Connect to the audio output jack on your PC.
  – DVI audio outputs for external devices.

❹ **PC IN [PC]**
  – Connect to the video output jack on your PC.
  N If your PC supports an HDMI connection, you can connect this to the **HDMI IN 1(DVI), 2, 3** or **4** terminal.
  N If your PC supports a DVI connection, you can connect this to the **HDMI IN 1(DVI) / PC/DVI AUDIO IN** terminal.

❺ **ANT IN**
  – Connects to an antenna or cable TV system.

❻ **KENSINGTON LOCK** (depending on the model)

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.

✎ The location of the Kensington Lock may be different depending on its model.

❼ ⌒ (**HEADPHONE**)

– Headphone may be connected to the headphone output on your set. While the head phone is connected, the sound from the built-in speakers will be disabled.

✎ Using the sound function is restricted when connecting headphones to the TV.

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

✎ You will not hear sound from the speakers when you connect headphones to the TV.

✎ The headphone volume and TV volume are adjusted separately.

❽ **AUDIO OUT [R-AUDIO-L]**

– Connect RCA audio cables to **AUDIO OUT [R-AUDIO-L]** on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theatre.

❾ **SERVICE**

– Connector for service only.

❿ **COMPONENT IN 1, 2**

– Connect component video cables (optional) to component connector (P_R, P_B, Y) on the rear of your set and the other ends to corresponding component video out connectors on the DVD.

– If you wish to connect both the Set-Top Box and DVD, you should connect the Set-Top Box to the DVD and connect the DVD to component connector (P_R, P_B, Y) on your set.

– The P_R, P_B and Y connectors on your component devices DVD are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.

– Connect RCA audio cables (optional) to **[R-AUDIO-L]** on the rear of your set and the other ends to corresponding audio out connectors on the DVD.

⓫ **USB**

– Connector for Media Play, etc.

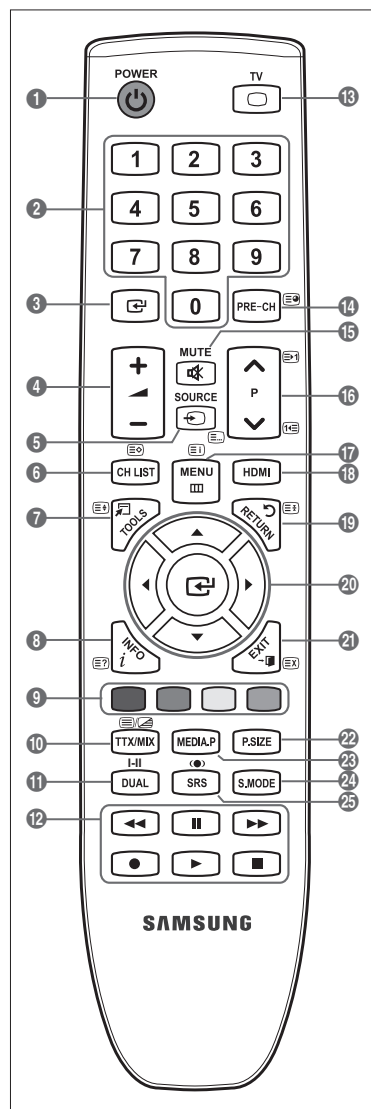## Viewing the Remote Control

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

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

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

➊ **POWER** : Turns the TV on and off.

➋ **NUMERIC BUTTONS** : Press to change the channel.

➌ ↵ : Performs the same function as the **ENTER**↵ button of the directional buttons. When switching channels with the numeric buttons, and you press the channel number and then the **ENTER**↵ button, the channel is immediately switched.

➍ — ◢ + : Press to increase or decrease the volume.

➎ **SOURCE** : Press to display and select the available video sources.

➏ **CH LIST** : Displays the Channel List on screen.

➐ **TOOLS** : Use to quickly select frequently used functions.

➑ **INFO** : Press to display information on the TV screen.

➒ **COLOUR BUTTONS** : Use these buttons in the **Media Play** menu, etc.

➓ **DUAL** : Sound effect selection

⑫ Use these buttons in the DMA, **Media Play** and **Anynet⁺** modes. (⏺: This remote can be used to control recording on Samsung recorders with the Anynet⁺ feature)

⑬ **TV** : Selects the TV mode directly.

⑭ **PRE-CH** : Enables you to return to the previous channel you were watching.

⑮ **MUTE** 🔇 : Press to temporarily cut off the sound.

⑯ ∨ **P** ∧ : Press to change channels.

⑰ **MENU** : Displays the main on-screen menu.

⑱ **HDMI** : Selects the HDMI mode directly.

⑲ **RETURN** : Returns to the previous menu

⑳ **UP▲ / DOWN▼ / LEFT◄ / RIGHT► / ENTER**↵ : Use to select on-screen menu items and change menu values.

㉑ **EXIT** : Press to exit the menu.

㉒ **P.SIZE** : Picture size selection

㉓ **MEDIA.P** : Allows you to play music files, pictures, and movies.

㉔ **S.MODE** : Sound mode selection.

㉕ **SRS** : Selects SRS TruSurround HD mode.

Teletext Functions

➎ 📃 : Teletext mode selection (LIST / FLOF)

➏ 📃 : Teletext store

➐ 📃 : Teletext size selection

➑ 📃 : Teletext reveal

➒ Fastext topic selection

➓ 📃/📃 : Alternately select Teletext, Double, or Mix.

⑬ ☐ : Exit from the Teletext display

⑭ 📃 : Teletext sub page

⑯ 📃 : Teletext next page
📃 : Teletext previous page

⑰ 📃 : Teletext index

⑲ 📃 : Teletext hold

㉑ 📃 : Teletext cancel
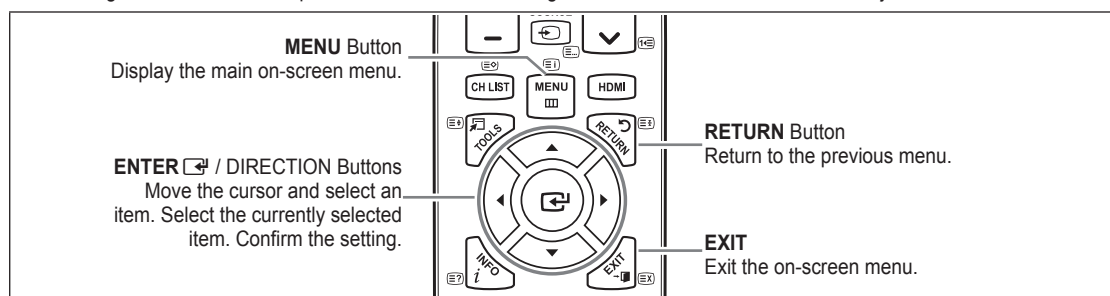
Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.

2. Install two AAA size batteries.
   - ✎ Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.

3. 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.

✎ 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?
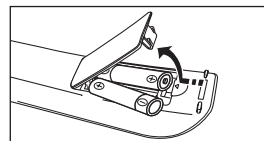
OPERATION

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.

MENU Button
Display the main on-screen menu.

ENTER ↵ / DIRECTION Buttons
Move the cursor and select an item. Select the currently selected item. Confirm the setting.

RETURN Button
Return to the previous menu.

EXIT
Exit the on-screen menu.

❏ Operation the OSD (On Screen Display)

The access step may differ depending on the selected menu.

1. Press the **MENU** button.

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

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

4. Then press the **ENTER ↵** button to access the icon's sub-menu.

5. Press the ▲ or ▼ button to select the icon's submenu.

6. 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 ↵** button to complete the configuration. Press the **EXIT** button to exit.

Help icon
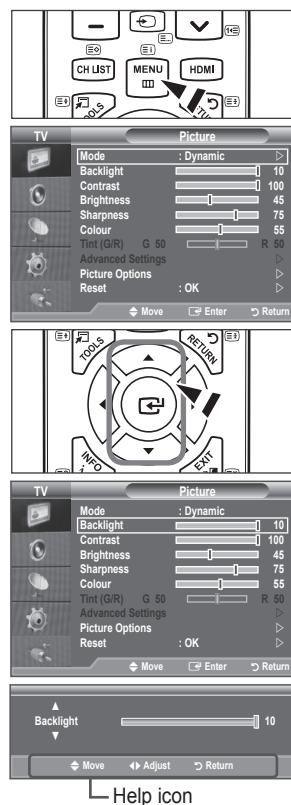
Placing Your Television in Standby Mode

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

1. Press the **POWER** ⏻ button on the remote control.
   - ✎ The screen is turned off and a red standby indicator appears on your set.

2. To switch your set back on, simply press the **POWER** ⏻ button again.
   - ✎ Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

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.
   - ✎ You can also use the **POWER** ⏻ button on the TV.

2. Press the ▲ or ▼ button to select the language, then press the **ENTER** ⏎ button.

3. Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** ⏎ button.
   - ✎ We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
   - ✎ **Store Demo** mode is only intended for use in retail environments.
   - ✎ If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.

4. The message **Check antenna input.** is displayed with **OK** selected.
   Press the **ENTER** ⏎ button.
   - ✎ Please check that the antenna cable is connected correctly.

5. Select the appropriate area by pressing the ▲ or ▼ button.
   Press the **ENTER** ⏎ button to confirm your choice.

6. The **Auto Store** menu is displayed with the **Start** selected. Press the **ENTER** ⏎ button.
   - ✎ The channel search will start and end automatically.
   - ✎ Press the **ENTER** ⏎ button at any time to interrupt the memorization process.
   - ✎ After all the available channels are stored, the **Clock Set** menu appears.

7. Press the **ENTER** ⏎ button.
   Select the **Month, Day, Year, Hour, Minute,** or **am/pm** by pressing the ◄ or ► button.
   Set the **Month, Day, Year, Hour, Minute,** or **am/pm** by pressing the ▲ or ▼ button.
   - ✎ You can also set the **Month, Day, Year, Hour** and **Minute** by pressing the number buttons on the remote control.

8. Press the **ENTER** ⏎ button to confirm your setting. The message **Enjoy your TV.** is displayed.
   When you have finished, press the **ENTER** ⏎ button.
   - ✎ Even if the **ENTER** ⏎ button is not pressed, the message will automatically disappear after several seconds.

If you want to reset this feature...

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

2. Press the **ENTER** ⏎ button again to select **Plug & Play**.
   - ✎ The **Plug & Play** feature is only available in the TV mode.
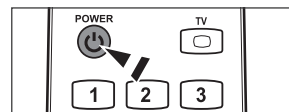
CHANNEL

Channel Menu

❑ **Area**

You can change the area for channels.

❑ **Auto Store**

You can scan for the frequency ranges available to you (and availability depends on your area). Automatically allocated programme numbers may not correspond to actual or desired programme numbers.

🖉 Scans for all channels with active broadcast stations and stores them in the TV's memory.

🖉 If you want to stop Auto Store, press the **ENTER**⏎ button.

❑ **Manual Store**

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

● **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons.

● **Colour System → Auto / PAL / SECAM / NTSC4.43 / NTSC 3.58**: Sets the colour system value using the ▲ or ▼ button.

● **Sound System → BG / DK / I / M**: Sets the sound system value using the ▲ or ▼ button.

● **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (0~9) buttons to select the required number.

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

🖉 If there is abnormal sound or no sound, reselect the sound standard required.

● **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.

● **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER**⏎ button.

🖉 **Channel mode**

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

– **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.

– **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

❑ **Channel List**

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

Adding channels

Using the Channel List, you can add channels.

– Move to the (⊞) field by pressing the ▲, ▼, ◄ or ► button, select a channel to be added, and press the **ENTER**⏎ button to add the channel.

– If you press the **ENTER**⏎ button again, the ✓ symbol next to the channel disappears and the channel is not added.

Locking channels

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

🖉 🔒 is active when **Child Lock** is selected to **On**. (refer to page 18)

– Move to the 🔒 field by pressing the ▲, ▼, ◄ or ► button, select a channel to be locked, and press the **ENTER**⏎ button.

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

🖉 If you press the **ENTER**⏎ button again, the ✓ symbol next to the channel disappears and the channel lock is cancelled.

🖉 A blue screen is displayed when **Child Lock** is activated.

🖉 Select **On** or **Off** in **Child Lock** to easily turn the channels which selected on 🔒 to be active or inactive.

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

❏ **Sort**

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

This operation may be necessary after using the auto store.

✍ The channel is moved to its new position and all other channels are shifted accordingly.

❏ **Name**

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

✍ The following characters are available: Letters of the alphabet (A~Z) / Numbers (0~9) / Special characters (+, -, *, /, space)

❏ **Fine Tune**

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

✍ Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.

✍ To reset the fine-tuning, select **Reset** by pressing the ▲ or ▼ button and then press the **ENTER**↵ button.

✍ Only TV channels can be fine tuned.

PICTURE

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**.

⟡ The Picture mode must be adjusted separately for each input source.

■ **Dynamic**

Selects the picture for increased definition in a bright room.

■ **Standard**

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

■ **Movie**

Selects the picture for viewing movies in a dark room.
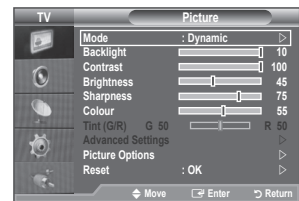
❏ **Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)**

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

■ **Backlight**

Adjusts the brightness of LCD 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.

■ **Colour**

Adjusts colour saturation of the picture.

■ **Tint (G/R)**

Adjusts the colour tint of the picture.

⟡ In **TV, AV1, AV2** modes of the PAL system, you cannot use the **Tint (G/R)** Function.

⟡ When you make changes to **Backlight, Contrast, Brightness, Sharpness, Colour** or **Tint (G/R)**, the OSD will be adjusted accordingly.

⟡ In PC mode, you can only make changes to **Backlight, Contrast** and **Brightness**.

⟡ 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.
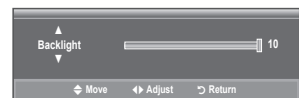
❏ **Advanced Settings**

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.
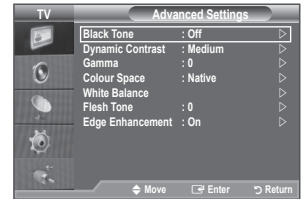
■ **Black Tone → Off / Dark / Darker / Darkest**

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

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

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

■ **Gamma**

You can adjust the primary colour (red, green, blue) Intensity.

■ **Colour Space**

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

● **Auto**: Auto Colour Space automatically adjusts to the most natural colour tone based on programme sources.
● **Native**: Native Colour Space offers deep and rich colour tone.

■ **White Balance**

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

● **R-Offset**: Adjusts the red colour darkness.
● **G-Offset**: Adjusts the green colour darkness.
● **B-Offset**: Adjusts the blue colour darkness.
● **R-Gain**: Adjusts the red colour brightness.
● **G-Gain**: Adjusts the green colour brightness.
● **B-Gain**: Adjusts the blue colour 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.

Ⓝ Changing the adjustment value will refresh the adjusted screen.

■ **Edge Enhancement → Off / On**

You can emphasize object boundaries in the picture.

❏ **Picture Options**

　　🖉 In PC mode, you can only make changes to the **Colour Tone** and **Size** from among the items in **Picture Options**.
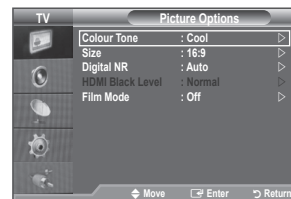
■ **Colour Tone → Cool / Normal / Warm1 / Warm2**

　　🖉 **Warm1** or **Warm2** is only activated when the picture mode is **Movie**.

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

● **Wide Zoom**: Magnify the size of the picture more than 4:3.

● **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.

● **4:3**: This is the default setting for a video movie or normal broadcasting.

● **Screen Fit**: Use the function to see the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are input.

　　🖉 Depending on the input source, the picture size options may vary.

　　🖉 The items available may differ depending on the selected mode.

　　🖉 In PC Mode, only **16:9** and **4:3** mode can be adjusted.

　　🖉 Settings can be adjusted and stored for each external device you have connected to an input of the TV.

　　🖉 Temporary image retention may occur when viewing a static image on the set for more than two hours.

　　🖉 **Wide Zoom**: Move the screen up/down using the ▲ or ▼ button after selecting the 🔲 by pressing the ► or **ENTER**◄┘ button.

　　🖉 **Zoom**: Select 🔲 by pressing the ◄ or ►button. Use the ▲ or ▼ button to move the picture up and down. After selecting 🔲, use the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction.

　　🖉 After selecting **Screen Fit** in HDMI (1080i/1080p) or Component (1080i/1080p) mode:

　　　Select 🔲 by pressing the ◄ or ►button. Use the ▲, ▼, ◄ or ► button to move the picture.

　　　Reset: Press the ◄ or ► button to select **Reset**, then press the **ENTER**◄┘ button.

　　　You can initialize the setting.

　　🖉 If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

　　🖉 When Double (■■, ■■) mode has been set in PIP, the Picture Size cannot be set.

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

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

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

■ **HDMI Black Level → Normal / Low**

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

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

■ **Film Mode → Off / Auto**

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

　　🖉 **Film Mode** is supported in TV, AV, COMPONENT(480i / 1080i) and HDMI(480i / 1080i).

❏ **Picture Reset → OK / Cancel**

Resets all picture settings to the default values.

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**.

⌦ PIP Settings

Main picture	Sub picture
Component1, 2 HDMI1/DVI, HDMI2, HDMI3, HDMI4 PC	TV, AV1, AV2

⌦ 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.

❏ **PIP → Off / On**

You can activate or deactivate the PIP function.

❏ **Source**

You can select a source of the sub-picture.

❏ **Size → ⬜ / ▮▮ / ▭▭**

You can select a size of the sub-picture.

⌦ If main picture is in HDMI mode, **Size** is available.

❏ **Position → ⬜ / ⬜ / ⬜ / ⬜**

You can select a position of the sub-picture.

⌦ In Double (▭▭, ▮▮) mode, **Position** cannot be selected.

❏ **Programme**

You can select the channel for the sub-screen.

⌦ **Programme** is available when the **Source** is set to **TV**.

TV	Setup	
	Plug & Play	▷
	Language	: English	▷
	Time	▷
	Child Lock	: On	▷
	Change PIN	
	Game Mode	: Off	▷
	Melody	: Off	▷
	Energy Saving	: Off	▷
	PIP	▷
	◆ Move ↵ Enter ↩ Return	

TV	PIP	
	PIP	: Off	▷
	Source	: TV	▷
	Size	: ⬜	▷
	Position	: ⬜	▷
	Programme	: P 1	
	↵ Enter ↩ Return	
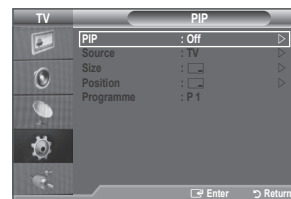
Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

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

1. First, click on 'Control Panel' on the Windows start menu.

2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.

3. When the control panel window appears, click on 'Display' and a display 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

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

■ **D-Sub and HDMI/DVI Input**

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350 720 x 400	31.469 31.469	70.086 70.087	25.175 28.322	+/- -/+
MAC	640 x 480 832 x 624 1152 x 870	35.000 49.726 68.681	66.667 74.551 75.062	30.240 57.284 100.000	-/- -/- -/-
VESA CVT	720 x 576 1152 x 864 1280 x 720 1280 x 720 1280 x 960	35.910 53.783 44.772 56.456 75.231	59.950 59.959 59.855 74.777 74.857	32.750 81.750 74.500 95.750 130.000	-/+ -/+ -/+ -/+ -/+
VESA DMT	640 x 480 640 x 480 640 x 480 800 x 600 800 x 600 800 x 600 1024 x 768 1024 x 768 1024 x 768 1152 x 864 1280 x 1024 1280 x 1024 1280 x 800 1280 x 800 1280 x 960 1360 x 768 1440 x 900 1440 x 900 1680 x 1050	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	59.940 72.809 75.000 60.317 72.188 75.000 60.004 70.069 75.029 75.000 60.020 75.025 59.810 74.934 60.000 60.015 59.887 74.984 59.954	25.175 31.500 31.500 40.000 50.000 49.500 65.000 75.000 78.750 108.000 108.000 135.000 83.500 106.500 108.000 85.500 106.500 136.750 146.250	-/- -/- -/- +/+ +/+ +/+ -/- -/- +/+ +/+ +/+ +/+ -/+ -/+ +/+ +/+ -/+ -/+ -/+
VESA GTF	1280 x 720 1280 x 1024	52.500 74.620	70.000 70.000	89.040 128.943	-/+ -/-
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+/+

> Ø When using an HDMI / DVI cable connection, you must use the **HDMI IN 1(DVI)** jack.
> Ø The interlace mode is not supported.
> Ø The set might operate abnormally if a non-standard video format is selected.
> Ø Separate and Composite modes are supported. SOG is not supported.
> Ø Too long or low quality VGA cable can cause picture noise at high resolution modes (1920x1080).
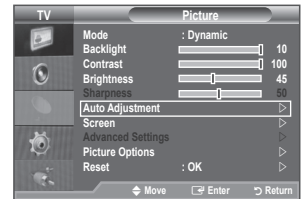
Setting up the TV with your PC

📝 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**.

📝 This function does not work in DVI-HDMI mode.

TV	Picture	
Mode	: Dynamic	
Backlight	▭▭▭▭	10
Contrast	▭▭▭▭▭	100
Brightness	▭▭▭	45
Sharpness	▭▭▭▭	50
Auto Adjustment	▷	
Screen	▷	
Advanced Settings	▷	
Picture Options	▷	
Reset	: OK	▷

⬥ Move   ↵ Enter   ↩ Return

❏ **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 centre of screen.
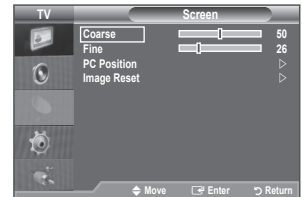
TV	Screen	
Coarse	▭▭▭	50
Fine	▭▭	26
PC Position	▷	
Image Reset	▷	

⬥ Move   ↵ Enter   ↩ Return

■ **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

Configuring the Sound Menu

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

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

● **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.

TV	Sound	
Mode	: Standard	▷
Equalizer		▷
SRS Trusurround HD	: Off	▷
Auto Volume	: Off	▷
Speaker Select	: TV Speaker	▷
Sound Select	: Main	▷

⬥ Move   ↵ Enter   ↩ Return
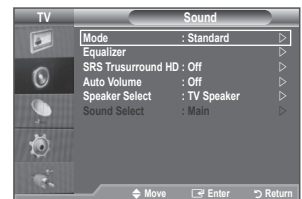
❏ **Equalizer**

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

● **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.

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

❏ **SRS TruSurround HD → 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.

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

❏ **Auto Volume → Off / On**

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

✐ **Auto Volume** is not available in Component and HDMI mode.

❏ **Speaker Select**

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

● **External Speaker**: Used to listen to the sound of the External (Home Theatre) 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**.
   ✐ If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

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

❏ **Sound Select → Main / Sub**

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

✐ You can select this option when **PIP** is set to **On**.

⌨ Press the **TOOLS** button to display the **Tools** menu. You can also set the sound of the sub picture by selecting **Tools → PIP → Sound Select**.

Selecting the Sound Mode

You can set the sound mode by pressing the **DUAL** button. When you press it, the current sound mode is displayed on the screen.

	Audio Type	Dual 1 / 2	Default
A2 Stereo	Mono	**MONO**	Automatic change
	Stereo	**STEREO ↔ MONO**	
	Dual	**DUAL 1 ↔ DUAL 2**	**DUAL 1**
NICAM Stereo	Mono	**MONO**	Automatic change
	Stereo	**MONO ↔ STEREO**	
	Dual	**MONO ↔ DUAL 1** ↱ **DUAL 2** ↰	**DUAL 1**

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

✐ This function is only activated in stereo sound signal. It is deactivated in mono sound signal.

✐ This function is only available in TV mode.

SETUP

Configuring the Setup Menu

❏ **Language**

You can set the menu language.

❏ **Time**

■ **Clock**

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

🅑 The current time will appear every time you press the **INFO** button.

Ⓝ If you disconnect the power cord, you have to set the clock again.

You can set the day, month, year, hour and minute directly by pressing the number buttons on the remote control.

■ **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**.

Ⓝ To cancel the **Sleep Timer** function, select **Off**.

■ **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 timer with the setting you've chosen, set to **Activated**.)

- **Off Time**

  Set the hour, minute, am/pm and activate / inactivate.

  (To activate timer with the setting you've chosen, set to **Activated**.)

- **Repeat**

  Select **Once, Everyday, Mon~Fri, Mon~Sat** or **Sat~Sun**.

- **Volume**

  Select the desired turn on volume level.

- **Programme**

  When the On Timer is active, you can turn on a specific channel.

  Ⓝ 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.

❏ **Child Lock → Off / On**

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

Ⓝ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.

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

Ⓝ You can lock some channels in Channel List. (refer to page 9)

Ⓝ **Child Lock** is available only in TV mode.

❏ **Change PIN**

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

◪ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.

◪ The default PIN number of a new TV set is 0-0-0-0.

◪ If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to 0-0-0-0:
POWER (Off) → **MUTE** → 8 → 2 → 4 → **POWER** (On).

❏ **Game Mode → Off / On**

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

◪ **Game Mode** is not available in regular TV and PC mode.

◪ 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.

❏ **Melody → 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.

❏ **Energy Saving → 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.

⌁ Press the **TOOLS** button to display the **Tools** menu. You can also set the Energy Saving option by selecting **Tools** → **Energy Saving**.

❏ **PIP**

For detailed procedures on setting up options, refer to page 14.

INPUT

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.

📖 Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the TV button.

📖 You can also watch HDMI mode simply by pressing the **HDMI** button on the remote control

■ **TV / AV1 / AV2 / Component1 / Component2 / PC / HDMI1/DVI / HDMI2 / HDMI3 / HDMI4.**

❏ **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.

MEDIA PLAY (USB)

Using the Media Play (USB) Function

This function enables you to view and listen to photo (JPEG) and audio files (MP3) saved on a USB Mass Storage Class (MSC) device.

Press the **POWER** button on the remote control or your set. Connect a USB device containing JPEG and/or MP3 files to the **Media Play (USB)** jack (USB jack) on the side of the TV.

If you enter the **Media Play (USB)** mode with no USB device connected the message 'There is no device connected' will appear. In this case, insert the USB device, exit the screen by pressing the **MEDIA.P** button on the remote control and enter the **Media Play (USB)** screen again.

TV Side Panel

USB Drive
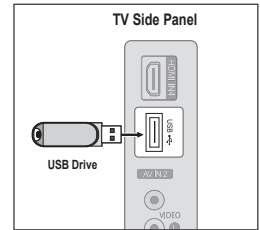
- Ⓝ Only alphanumeric characters must be used as a folder name or file name (photo, music).
- Ⓝ The file system only supports FAT16/32 (The NTFS file system is not supported) Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Ⓝ Media Play (USB) only supports the USB Mass Storage Class device (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)
- Ⓝ 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.
- Ⓝ 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.
- Ⓝ Only MP3 and JPEG file formats are supported.
- Ⓝ The Media Play (USB) mp3 format only supports music files with a high sampling frequency (32 kHz, 44.1 kHz, or 48 kHz).
- Ⓝ We recommend the sequential jpeg format.
- Ⓝ Do not disconnect the USB device while it is loading.
- Ⓝ MTP (Media Transfer Protocol) is not supported.
- Ⓝ The playing duration of an mp3 file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
- Ⓝ The higher the resolution of the image, the longer it takes to display on the screen.
- Ⓝ The Photo or Music List displays up to 300 folders or files.
- Ⓝ Loading may take some time depending on the size of the file.
- Ⓝ 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.

Using the Media Play (USB) Menu

1. Press the **MENU** button. Press the ▲ or ▼ button to select Application, then press the **ENTER** button.

2. Press the ▲ or ▼ button to select **Media Play (USB)**, then press the **ENTER** button.

3. Press the ▲ or ▼ button to select the corresponding USB Memory Device, then press the **ENTER** button.
   - ✎ The **Media Play (USB)** menu differs depending on the USB Memory Device connected to TV.
   - ✎ Some devices may not be supported due to compatibility problems.

4. Press the ◄ or ► button to move to an icon, then press the **ENTER** button.
   - ✎ To exit **Media Play (USB)** mode, press the **MEDIA.P** button on the remote control.
   - 📖 Press the **MEDIA.P** button on the remote control to display a **Media Play (USB)** menu.

Using the Remote Control Button in Media Play (USB) Menu

Button	Operations
▲ / ▼ / ► / ◄	Move the cursor and select an item.
ENTER	Select the currently selected item.
▶ / ❚❚	Play or pause the Slide Show or MP3 file.
RETURN	Return to the previous menu
INFO	Run various functions from the Photo and Music menus.
■	Stop the current slide show or MP3 file.
◄◄ / ►►	Page Up or Down (file list item)
EXIT	Stop the current function and return to the previous high-level menu.

Using the PHOTO (JPEG) List

This menu shows JPEG files and folders saved on an USB memory device.

1. Complete Steps 1 to 3 of 'Using the **Media Play (USB)** Function'. (Refer to page 21)

2. Press the ◄ or ► button to move to **Photo**, then press the **ENTER** button. The saved file information is displayed as a folder or file.

3. Press the ▲, ▼, ◄ and ► buttons to select a file.
   – Pressing the **ENTER** button over a photo icon shows the currently selected photo in full screen.
   – Pressing the **ENTER** button over a folder icon shows the JPEG files included in the folder.

   ✎ Press the **MEDIA.P** button on the remote control to display the **Media Play (USB)** menu.

   ✎ To exit **Media Play (USB)** mode, press the **MEDIA.P** button on the remote control.

   ✎ Moving to a photo may take a few seconds to load the file. At this point, the ⟨Loading...⟩ icon will appear at the top left of the screen.

   ✎ It takes time to show JPEG files as Thumbnail images.

   ✎ This menu only shows files whose file extension is jpg. Files of other formats such as bmp or tiff will not be displayed.

   ✎ The files are displayed on a page. 15 thumbnail photos are displayed per page.

   ✎ The thumbnails are numbered from left to right and from top to bottom, from 1 to 15.

   ✎ Certain types of USB Digital camera and audio devices may not be compatible with this TV.

   ✎ Folders are displayed first and they are followed by all JPEG files in the current folder.

   ✎ The folders and JPEG files appear in the order of the time they were saved to the USB memory device.

   ✎ If the photo is displayed in full screen, you can zoom in and out or rotate the photo on the screen.

   ✎ While a full screen is displayed, ◄ or ► button will let you see another photo image in the same folder.

   ✎ Press the ▶ button when a Photo icon is selected to start a Slide Show.

   ✎ Photos without EXIF information may not be displayed as thumbnail images in the PHOTO LIST depending on the picture quality and resolution.
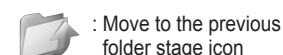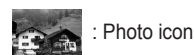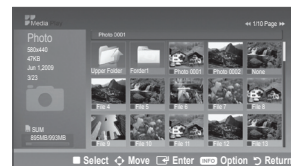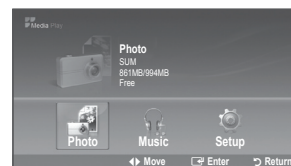
❑ **Viewing a Slide Show**

1. Press the **INFO** button to display the option **Start Slide Show, Select All, Deselect All**.

2. Press the ▲ or ▼ button to select Start Slide Show then press the **ENTER** button.
   ✎ During the slide show, files are displayed in order from the currently shown file.
   ✎ MP3 files can be automatically played during the Slide Show if the Default Background Music is set to On. To enable this function, MP3 files and other photo files must be located in the same folder on the USB Memory Device.

3. Press the **INFO** button during the slide show to set the following options Slide Show Speed, Background Music, Background Music Setting, List. Press the ▲ or ▼ button to select the option, then press the **ENTER** button.
   – After setting the option press the **ENTER** button to make a change.

■ **Start Slide Show**
Using this menu, you can play a SlideShow using the photo files on the USB memory device.

■ **Deselect All**
You can deselect all files.

: Folder icon

: Photo icon

: Move to the previous folder stage icon

❑ **Using the Menu during a Slide Show**

■ **Slide Show Speed**

Select to control the slide show speed. Press the ▲ or ▼ button to select the required option (**Fast, Normal, Slow**), then press the **ENTER** button.

■ **Background Music**

Select to choose whether you want to play an MP3 file during a slide show.

Press the ▲ or ▼ button to select the required option (**On, Off**), then press the **ENTER** button.

■ **Background Music Setting**

While the slide show is in progress, MP3 files and folders under the same directory are displayed.

Press the ▲ or ▼ button to select a music file, then press the yellow button. The ✓ mark appears to the left of the selected music.

Repeat the above operation to select multiple music files.
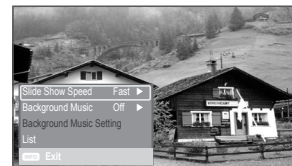
Press the **ENTER** button.

🖉 If you turn Off the **Background Music**, even if the **Background Music Settings** have been set up, the background music will not be played.

■ **List**

The file information is displayed as a folder or JPEG file.

To exit **Media Play (USB)** mode, press the **MEDIA.P** button on the remote control.

🖉 When selecting a photo file, the photo file information is displayed on the left side of the TV screen, such as the resolution, the date modified and the order of the file in the current directory (e.g. 10th out of 15).

❑ **Using the Option Menu**

1. Complete Steps 1 to 3 of 'Using the **Media Play (USB)** Function'. (Refer to page 21)

2. Press the ◄ or ► button to move to Photo, then press the **ENTER** button. The saved file information is displayed as a folder or file.

3. Press the ▲, ▼, ◄ and ► button to select a file, then press the **ENTER** button. Pressing the button over a photo thumbnail displays the photo in full screen.

4. Press the **INFO** button to display the option (**Start Slide Show, Zoom, Rotate, List**)

■ **Start Slide Show**

Press the ▲ or ▼ button to select **Start Slide Show**, then press the **ENTER** button. You can start a Slide Show.

■ **Zoom**

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

Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button. (**X1, X2, X4**)

🖉 To pan up/down/left/right in the zoomed-in photo, press the **INFO** button to exit option menu, then press the ▲, ▼, ◄ and ► buttons.

🖉 **Start Slide Show** or **Rotate** is disabled when the **Zoom** option is selected.

🖉 **X1**: Restore a photo to its original size.

X2: Zoom-in to a photo x2.

X4: Zoom-in to a photo x4.

▼ / ▲ / ◄ / ► : Move the zoomed-in photo up/down/right/left.

■ **Rotate**

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

Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button. (**0°, 90°, 180°, 270°**)

The rotated file is not saved.

Start Slide Show or **Zoom** is disabled when the **Rotate** option is selected.

🖉 **0°**: This rotates a photo to its original position

🖉 **90°**: This rotates a photo by 90 degrees

🖉 **180°**: This rotates a photo by 180 degrees

🖉 **270°**: This rotates a photo by 270 degrees

Using the MP3 List

This menu shows MP3 files from among the files saved on a USB memory device.

1. Complete Steps 1 to 3 of 'Using the **Media Play (USB)** Function'. (Refer to page 21)

2. Press the ◄ or ► button to move to **Music**, then press the **ENTER** ⏎ button. The saved file information is displayed as a folder or file.

3. Press the ▲ or ▼ button to move to an icon, then press the **ENTER** ⏎ button.
   – Pressing the **ENTER** ⏎ button over a musical note icon immediately plays the music file.
   – Pressing the **ENTER** ⏎ button over a folder icon shows the music files included in the folder.
   – To select a file on the next page, press the π or µ button to move to the next page.

4. To select all files or a file, press the **INFO** button to display the Music menus. Press the **ENTER** ⏎ button to select Play, **Repeat Music** or **Select All**.
   To exit **Media Play (USB)** mode, press the **MEDIA.P** button on the remote control.
   The folders and MP3 files appear in the order of the time they were saved to the USB memory device.
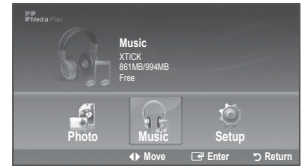
❑ Using the Option Menu

■ **Play**
   Select to play MP3 files.
   ⍥ Press the ▯▯ button while playing an MP3 file to pause the file.
   ⍥ Press the ▮ button to exit Play mode.
   ⍥ 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.
   ⍥ The selected file is displayed on the top with its playing time.
   ⍥ To adjust the music volume, press the **– VOL +** 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, exit Media Play (USB) mode and adjust the **Equalizer** and **SRS Trusurround HD** in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)

■ **Repeat Music**
   Select to repeatedly play MP3 files in the current folder.
   You can select **On** or **Off**.

■ **Deselect All**
   You can deselect all files.
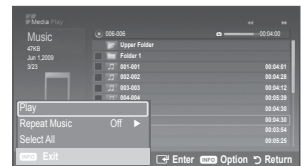
: Folder icon

: Music icon

: Move to the previous folder stage icon

Music function information icon

⟲All : When all music files in the folder (or the selected file) are repeated. **Repeat Music** is **On**.

⟲ : When all music files in the folder (or the selected file) are played once. **Repeat Music** is **Off**.

▷/▯ : When pressing the ▶ / ▯▯ button on the remote control while music is playing.

▫ : When pressing the ▮ button on the remote control when music is stopped.

Using the Setup Menu

Setup displays the user settings of the **Media Play (USB)** menu.

1. Complete Steps 1 to 3 of 'Using the **Media Play (USB)** Function'. (Refer to page 21)

2. Press the ◄ or ► button to move to **Setup**, then press the **ENTER** button.

3. Press the ▲ or ▼ button to select an item you want, then press the **ENTER** button.
   (**Slide Show Speed, Background Music, Background Music Setting, Repeat Music, Screen Saver, Safe Remove**)

4. Press the ▲ or ▼ button to select the option, then press the **ENTER** button.
   To exit **Media Play (USB)** mode, press the **MEDIA.P** button on the remote control.

■ **Slide Show Speed**

Select to control the slide show speed. You can select Fast, Normal or Slow.

■ **Background Music**

Select to determine whether to play an MP3 file during a slide show.
You can select Music **On** or Music **Off**.

■ **Background Music Setting**

While a slide show is in progress, use the **Background Music Setting** to select a music file to listen to. Select an MP3 file as the background music.

■ **Repeat Music**

Select to determine whether to repeat playing the music when all MP3 files in the current folder have been played.

■ **Screen Saver**

Select to set the waiting time before the screen saver appears.
The screensaver will appear when no button is pressed for 2, 4 or 8 hour.

■ **Safe Remove**

You can remove the device safely from the TV.
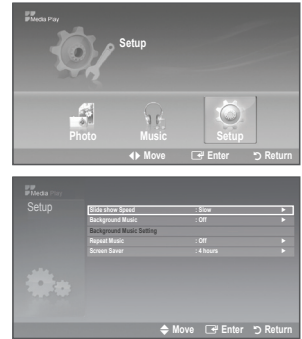
ANYNET+

Connecting Anynet+ Devices

What is Anynet+?

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

To connect to a TV
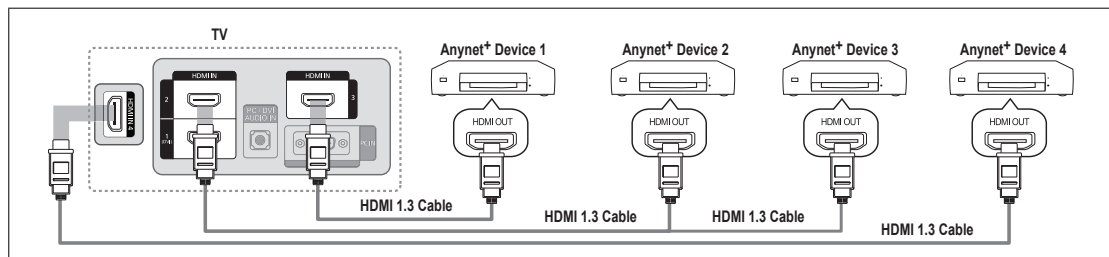
1. Connect the **HDMI IN (1(DVI), 2, 3** or **4)** jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

To connect to Home Theatre
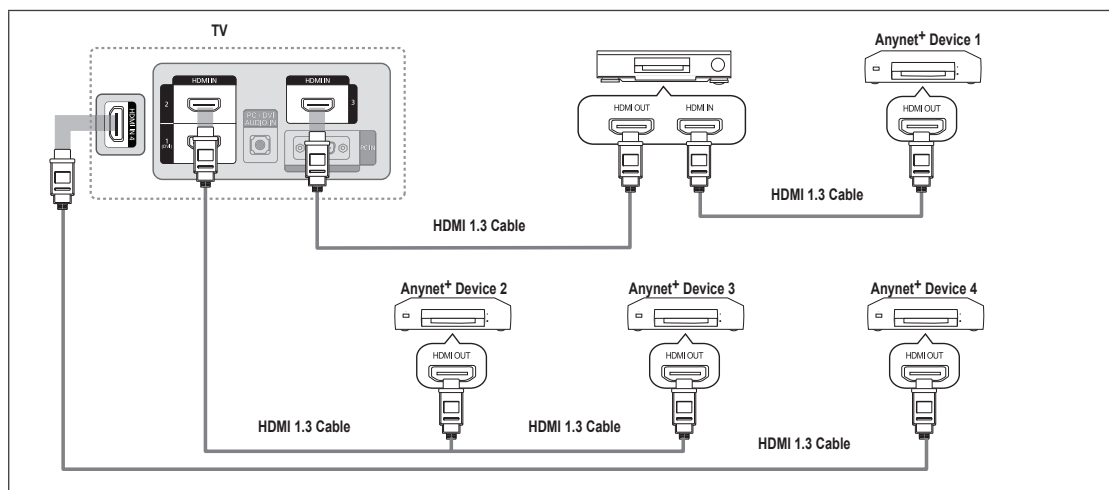
1. Connect the **HDMI IN (1(DVI), 2, 3** or **4)** jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

2. Connect the HDMI IN jack of the home theatre and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
   - ✍ Connect only one Home Theatre.
   - ✍ You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
   - ✍ Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
   - ✍ Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Setting Up Anynet+

▱ Press the **TOOLS** button to display the **Tools** menu. You can also display Anynet+ menu by selecting **Tools → Anynet+ (HDMI-CEC)**.

❑ **Setup**

■ **Anynet+ (HDMI-CEC) → Off / On**

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

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

■ **Auto Turn Off → No / Yes**

Setting an Anynet+ Device to turn Off automatically when the TV is turned Off.

✎ The active source on the TV 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.

■ **Searching Connections**

Switching between Anynet+ Devices

1. Press the **TOOLS** button.
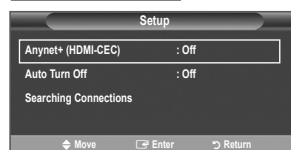   Then press the **ENTER** button to select **Anynet+(HDMICEC)**.

2. Press the ▲ or ▼ button to select **Select Device**, then press the **ENTER** button.

3. Press the ▲ or ▼ button to select to a particular device and press the **ENTER** button. It is switched to the selected device.

4. If you cannot find a device you want, press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.

5. Press the ▲ or ▼ button to select **Searching Connections**, then press the **ENTER** button.
   The message **Configuring Anynet+ connection** is displayed.
   When searching devices completes, the connected devices are listed in the Anynet+ menu.

✎ Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.

✎ The time required to scan for devices is determined by the number of connected devices.

✎ When the device scan is complete, the number of devices found are not displayed.

✎ Although the TV automatically scans devices when it is turned on using the **POWER** button, devices connected when the TV is on or under a specific circumstance are not displayed in the device list. Therefore select **Searching Connections** menu to search devices.

✎ If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **TOOLS** button.

Anynet+ Menu

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

Anynet+ Menu	Description
View TV	Anynet+ mode changes to TV broadcast mode.
Select Device	Shows the Anynet+ device list.
Menu on Device	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
Device Operation	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.
Record	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
Receiver	Sound is played through the receiver.

TV Remote Control Buttons Available in Anynet⁺ Mode

Device Type	Operating Status	Available Buttons
Anynet⁺ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◄/► / **ENTER** ↵ buttons Colour buttons / **EXIT** button
	After switching to the device, while playing a file	◄◄(Backward search) / ►►(Forward search) / ■(Stop) / ►(Play) / ▌▌(Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV program	**P** ⌄ / **P** ⌃ button
Audio Device	When Receiver is activated	Volume / **MUTE** button

✐ The Anynet⁺ function only works when the active source on the TV remote control is set to TV.

✐ The ⬤ button works only while in the recordable state.

✐ You cannot control Anynet⁺ devices using the buttons on the TV. You can control Anynet⁺ devices only using the TV remote control.

✐ The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet⁺ device.

✐ The Anynet⁺ functions do not operate with other manufacturers' products.

✐ The ◄◄, ►► operations may differ depending on the device.

Recording

You can make a recording of a TV programme using a recorder.

Press the ⬤ button.

Recording begins. (Only when the Anynet+ enabled recording device is connected.)

✐ The current TV programme is recorded in the Watching TV status. If you are watching video from another device, the video from the device is recorded.

✐ You can also record the source streams by selecting **Record** after pressing the **TOOLS** button.

✐ Before recording, check whether the antenna jack is properly connected to the recording device.

✐ For the antenna connection to the recording device, refer to its user manual.

| Problem	Possible Solution
Anynet⁺ does not work.	• Check if the device is an Anynet⁺ device. The Anynet⁺ system supports Anynet⁺ devices only. • Connect only one receiver (home theatre). • Check if the Anynet⁺ device power cord is properly connected. • Check the Anynet⁺ device's Video/Audio/HDMI 1.3 cable connections. • Check whether Anynet⁺ (HDMI-CEC) is set to On in the Anynet⁺ setup menu. • Check whether the TV remote control is in TV mode. • Check whether it is Anynet⁺ exclusive remote control. • Anynet⁺ doesn't work in certain situations. (Searching channels, Operating **Media Play, Plug & Play**, etc.) • When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again. • Check if the Anynet⁺ Function of Anynet⁺ device is set on.
I want to start Anynet⁺.	• Check if the Anynet+ device is properly connected to the TV and check if the **Anynet⁺ (HDMI-CEC)** is set to **On** in the **Anynet⁺ Setup** menu. • Press the TV button on the TV remote control to switch to TV. Then press the **TOOLS** button to show the Anynet⁺ menu and select a menu you want.
I want to exit Anynet⁺.	• Select **View TV** in the Anynet⁺ menu. • Press the SOURCE button on the TV remote control and select a device other than Anynet⁺ devices. • Press **P ⌄/⌃**, **PRE-CH** to change the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet⁺ device is not connected.)
The message 'Connecting to Anynet⁺ device...' appears on the screen.	• You cannot use the remote control when you are configuring Anynet⁺ or switching to a view mode. • Use the remote control when the Anynet⁺ setting or switching to view mode is complete.
The Anynet⁺ device does not play.	• You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	• Check whether or not the device supports Anynet⁺ functions. • Check whether or not the HDMI 1.3 cable is properly connected. • Check whether **Anynet⁺ (HDMI-CEC)** is set to **On** in the Anynet⁺ setup menu. • Search Anynet⁺ devices again. • You can connect an Anynet⁺ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet⁺ functions. • If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	• Check whether the antenna jack on the recording device is properly connected.

RECOMMENDATIONS

Teletext Feature

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

Ⓝ For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

❶ ▤ (index)
Used to display the index (contents) page at any time while you are viewing Teletext.

❷ ▤ (store)
Used to store the Teletext pages.

❸ ▤ (size)
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

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

❺ Colour buttons (red/green/yellow/blue)
If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.

❻ ▤/▤ (Teletext on/mix)
Press to activate Teletext mode after selecting the channel providing the Teletext service. Press it twice to overlap the Teletext with the current broadcasting screen.

❼ ▭ (exit)
Exit from the Teletext display.

❽ ▤ (sub-page)
Used to display the available sub-page.

❾ ▤ (page up)
Used to display the next Teletext page.

❿ ▤ (mode)
Press to select the Teletext mode (LIST/ FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save Teletext page into list using the ▤(store) button.

⓫ ▤ (page down)
Used to display the previous Teletext page.

⓬ ▤ (hold)
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

⓭ ▤ (cancel)
Used to display the broadcast when searching for a page.
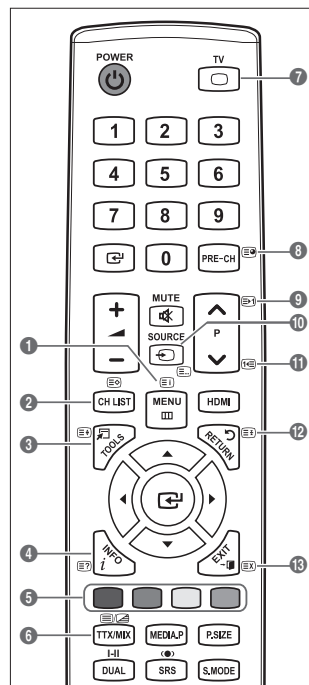
Ⓝ You can change Teletext pages by pressing the numeric buttons on the remote control.

The Teletext pages are organized according to six categories:

| Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.
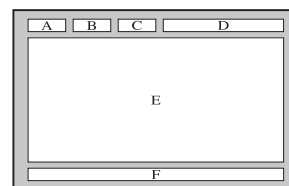
✐ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
  – Entering the page number
  – Selecting a title in a list
  – Selecting a coloured heading (FASTEXT system)
✐ Teletext level supported by the TV is version 2.5 which is capable of displaying additional graphics or text.
✐ Depending upon the transmission, blank side panels can occur when displaying Teletext.
✐ In these cases, additional graphics or text is not transmitted.
✐ Older TV's which do not support version 2.5 are not capable of displaying any additional graphics or text, regardless of the Teletext transmission.
☞ Press the **TV** button to exit from the Teletext display.
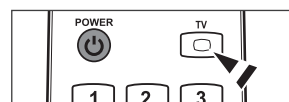
Installing the Stand

✐ **Preset**: Place the Guide Stand and Cover Neck onto the stand and fasten it using the screws. Applicable to 32inch models only.
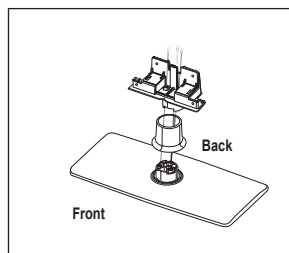
1. Attach your LCD TV to the stand.
   ✐ Two or more people should carry the TV.
   ✐ Make sure to distinguish between the front and back of the stand when assembling them.
   ✐ To make sure the TV is installed on the stand at a proper level, do not apply excess downward pressure to the upper left of right sides of the TV.
2. Fasten screws at position ❶ and then fasten screws at position ❷.
   ✐ Stand the product up and fasten the screws. If you fasten the screws with the LCD TV placed down, it may lean to one side.
   ✐ The stand is installed for models with the screen size of 37 inch and above.
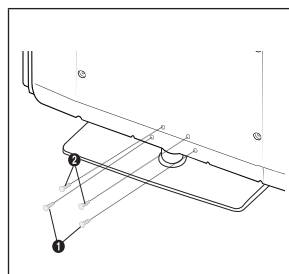
Disconnecting the Stand
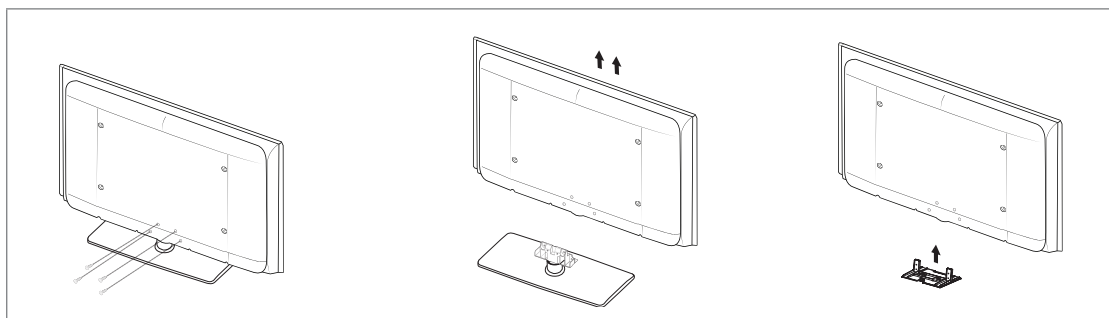
1. Remove four screws from the back of the TV.

2. Separate the stand from the TV.
    ✎ Two or more people should carry the TV.

3. Cover the bottom hole with the cover.

Installing the Wall Mount Kit

Wall mount items (sold separately) allow you to mount the TV on the wall.
For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.
Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

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

✎ Remove the stand and cover the bottom hole with a cap and fasten with two screws.
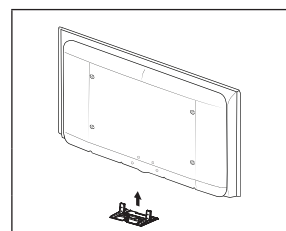
Anti-Theft Kensington Lock

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.

N The locking device has to be purchased separately.

N The location of the Kensington Lock may be different depending on its model.

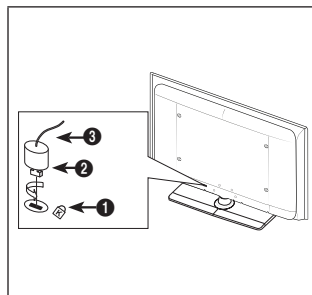1. Insert the locking device into the Kensington slot on the LCD TV (❶) and turn it in the locking direction (❷).

2. Connect the Kensington Lock cable (❸).

3. Fix the Kensington Lock to a desk or a heavy stationary object.

Securing the TV to the Wall

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

■ **To avoid the TV from falling:**

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
    N You may need additional material such as an anchor depending on the type of wall.
    N Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.

2. Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
    N Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
    N Screw Specifications
    – For a 17 ~ 29 Inch LCD TV: M4 X 15 / For a 32 ~ 40 Inch LCD TV: M6 X 15

3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
    N Install the TV near to the wall so that it does not fall backwards.
    N It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
    N Untie the string before moving the TV.

4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.
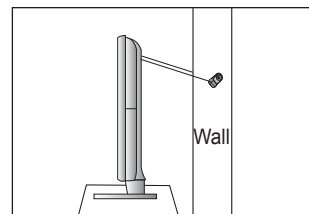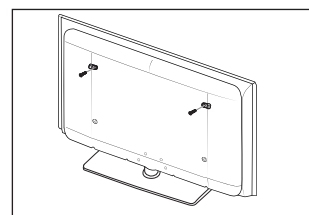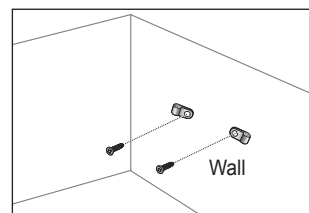
Troubleshooting: Before Contacting Service Personnel

N Before contacting service personnel

Problem	Possible Solution
No sound or picture	Check that the mains lead has been connected to a wall socket. Check that you have pressed the button on your set. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound	Check the volume. Check whether the **MUTE** button has been pressed on the remote control. Check the **Speaker Select** settings.
Screen is black and power indicator light blinks steadily	On your computer check; Power, Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.
No picture or black and white picture	Adjust the colour settings. Check that the broadcast system selected is correct.
Sound and picture interference	Try to identify the electrical appliance that is affecting the set and move it further away. Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.
'Check signal cable.' message is displayed	Check that the signal cable is firmly connected to the PC or video sources. Check that the PC or video sources are turned on.
On PC mode, 'Not Supported Mode.' message is displayed	Check the maximum resolution and the frequency of the video adaptor. Compare these values with the data in the Display Modes.
The damaged picture appears in the corner of the screen	If **Screen Fit** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The 'Resets all settings to the default values.' message appears.	This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.
You may see small particles if you look closely at the edge of the bezel surrounding the TV screen.	This is part of the product's design and is not a defect.

N This TFT LCD 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.

Specifications

Model Name	LA32B550	LA40B550
Screen Size (Diagonal)	32 inch	40 inch
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10W X 2	10W X 2
Dimensions (WxDxH) Without Stand With stand	794 X 77 X 524 mm 794 X 240 X 570 mm	982 X 79 X 626 mm 982 X 255 X 676 mm
Weight With Stand	13 kg	18 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	

Model Name	LA46B550	LA52B550
Screen Size (Diagonal)	46 inch	52 inch
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10W X 2	10W X 2
Dimensions (WxDxH) Without Stand With stand	1116 X 79 X 706 mm 1116 X 275 X 770 mm	1258 X 80 X 798 mm 1258 X 305 X 852 mm
Weight With Stand	23 kg	29 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	

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

✐ This device is a Class B digital apparatus.

✐ For the power supply and Power Consumption, refer to the label attached to the product.