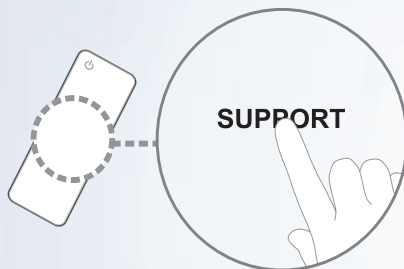


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E-MANUAL



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Model _____ Serial No. _____

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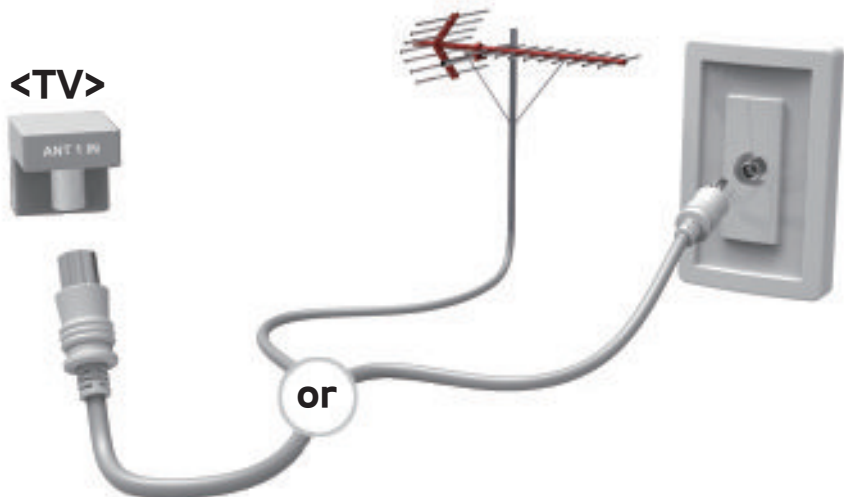
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Connecting the TV

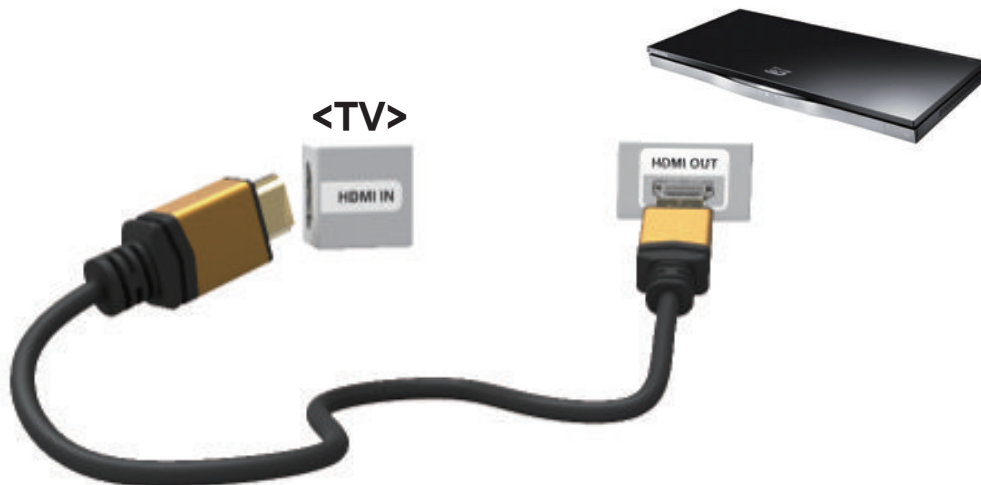
Connecting to an Antenna



The displayed image may differ depending on the model.

Connecting to an AV Device

Using a HDMI (up to 1080p)



The displayed image may differ depending on the model.

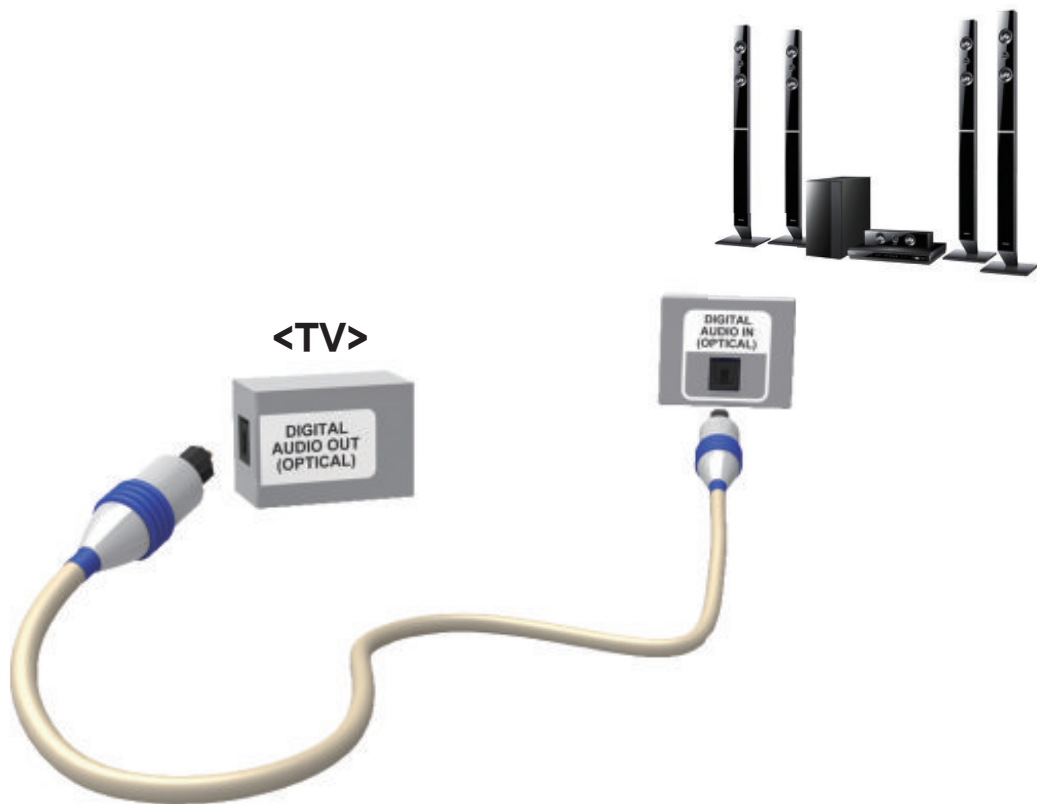
Using a Component (up to 1080p)



The displayed image may differ depending on the model.

Connecting to an Audio device

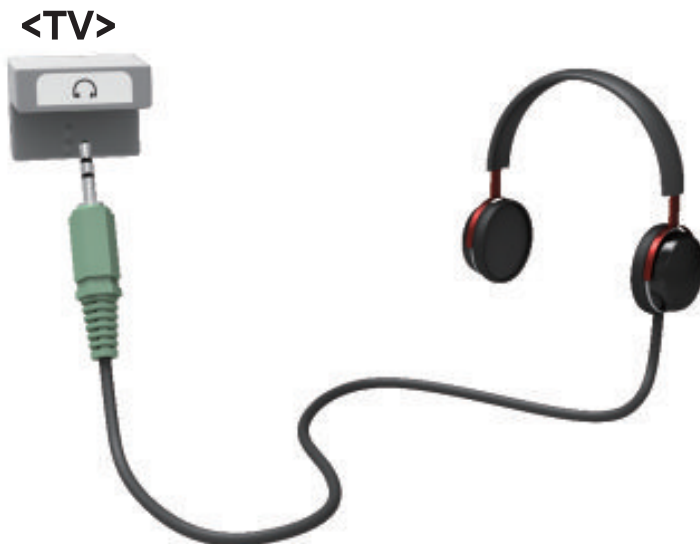
Using an Optical (Digital) Connection



The displayed image may differ depending on the model.

Using a Headphone Connection

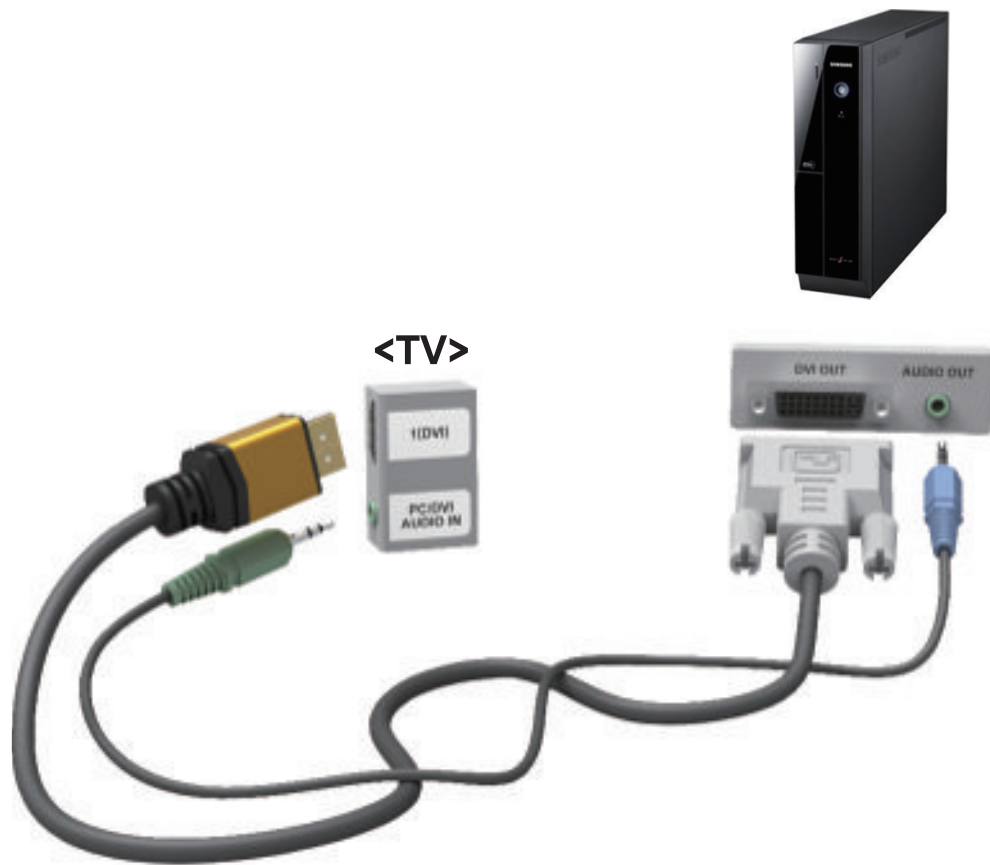
for LED TV



The displayed image may differ depending on the model.

Connecting to a PC

Using an HDMI/DVI Cable



The displayed image may differ depending on the model.

Using the INFO button (Now & Next guide)

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

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

- Scroll ◀, ▶ to view information for a desired programme while watching the current channel.

- Scroll ▲, ▼ to view information for other channels. If you want to move to the currently selected channel, select  using your remote.

Some country, if **Digital Text** is set to **Enable**, the EPG (Electronic Programme Guide) will work.

Using the Channel Menu

Press the  button to select the menu you want to use. Each screen will be displayed.

Guide

 → **Guide**

The EPG (Electronic Programme Guide) information is provided by broadcasters. Using programme schedules provided by broadcasters, you can specify

programmes you want to watch in advance so that the channel automatically changes to the selected programme channel at the specified time. Programme entries may appear blank or out of date depending on a channel status.

 Some country, if **Digital Text** is set to **Enable**, the EPG (Electronic Programme Guide) will work.

Using Channel View

- **A** (Sche. Mgr): Displays the Schedule Manager.
- **B** (-24 Hours): Viewing the list of programmes to be broadcasted before 24 hours.
- **C** (+24 Hours): Viewing the list of programmes to be broadcasted after 24 hours.
- **D** (Ch. Mode): Select the type of channels you want to display on the

Channel View window.

- *i* **Information**: Displays details of the selected programme.
 -  **Page**: Move to next or previous page.
 -  **Watch / Enter**: When selecting the current programme, you can watch the selected programme. / Displays detailed information of the selected channel.
-  This function may not be supported depending on the country.

Channel



→ Channel

Using this function, you can delete channels, set favourite channels and edit the channel name for analogue broadcasts.

 The available items may differ depending on the selected antenna source.

- All

Shows all channels.

- TV

Shows TV channels.

- Radio

Shows radio channels.

- Data/Other

Shows data channels and other channels.

- Analogue

Shows analogue channels.

- Favourites 1 - Favourites 5

Shows all favourite channels, in up to

five groups. Each group has separate channels.

 The TV displays favourites only if you have added favourites using **Edit Favourites** in the **Tools** menu.

 If the highlight located in the **Favourites 1 - Favourites 5** category, you can change the name of category by selecting **B** using your remote.

- **Recently Viewed**

Shows the most recently viewed channels.

- **Most Viewed**

Shows the most frequently viewed channels.

Using the coloured and function buttons with Channel

- **B Delete**

Delete the selected channel(s).

- **i Information**

Displays details of the selected channel.

-  **Page**

Scrolls the channel list to the next or previous page.

-  **Select / Deselect**

Selects or deselects a channel.

-  **Tools**

Displays the option menu.

-  **Return**

Return to the previous menu.

Using the Tools menu with the Channel

- **Edit Favourites**

Lets you assign channels you watch frequently to a favorites group and remove channels from a favorites group. You access **Edit Favourites** on the **Tools** menu.

1. Select **Edit Favourites**. The **Edit Favourites** screen appears.
2. Select **A** using your remote. The selected channel will be added to the

favourite group.

 Also, you can select a channel in the **Edit Favourites** screen.

 You can add a favourite channel to any one of the groups. To change favourites group, select **D** using your remote. Each time you select **D**, a favourites group will be changed.

3. When done, select **OK**. The channel is made a favourite and is assigned

to the favourite group you selected.

 On the Channel screen, the TV displays the “” symbol next to the channel, indicating it is a favourite.

- **Lock / Unlock**

Lock a channel so that the channel cannot be selected and viewed.

 This function is available only when the **Channel Lock** is set to **On**.

- **Rename channels**

(Appears only if you have selected an analogue channel.)

Lets you assign a name of up to five characters to an analogue channel. For example, Food, Golf, etc. This makes it easier to find and select the channel.

- **Edit Channel Number**

Edit the channel number by select the numbers.

 This function may not be supported depending on the region.

- **Sorting** (digital channels only)

Change the list ordered by channel name or number.

- **Channel Info**

Displays information of channel signal.
The item may differ depending on channel.

- **Delete**

Delete a channel to display the channels you want.

- **Select All / Deselect All**

Select all channels in the list. / Deselect all channels you selected.

To delete a channel from a Category list on the Channel screen, follow these steps:

1. If you want to delete a channel, select a category of the channel.
2. Select a channel in the category list.
A  mark appears to the left of the channel.

 You can select more than one channel.

 If you select the selected channel again, a  mark disappears.

3. Open the **Tools** menu using your remote.

4. Select **Delete**. The message **Delete the selected channels?** appears.
Select **OK**.

 You can delete the selected channel immediately by selecting **B** using

your remote.

- ☞ When you delete a channel in the **Recently Viewed** or **Most Viewed** category, the channel will disappear from the category list. But, the channel is not deleted.

To set channels as favourites, follow these steps:

1. Select the **All** category.
2. Select a channel. A  mark appears

to the left of the channel.

 You can select more than one channel.

 If you select the selected channel again, a  mark disappears.

3. Open the **Tools** menu using your remote.

4. Select the **Edit Favourites**. The **Edit Favourites** screen appears.

5. Select  using your remote. The selected channel will be moved to

the favourite group.

 Also, you can select a channel in the **Edit Favourites** screen.

 You can add a favourite channel to any one of the groups. To change favourites group, select **D** using your remote. Each time you select **D**, a favourites group will be changed.

6. When done, select **OK**. The channel is made as a favourite and is assigned

to the favourite group you selected.

 The TV displays the “” symbol next to the channel, indicating it is a favourite.

Using the coloured and function buttons with Edit Favourites

- On the **Edit Favourites** screen, you can use these functions buttons:
 -  **Add**

Add selected channels to the

favourites group.

- **D** Change Fav.

Change the favourites group.

Each time you select **D** using your remote, the favourites group changes.

- **0~9** Go To

Move to the Highlight to a channel number immediately by pressing the number button using your remote.

- ↶ Return

Return to the previous menu.

- When you highlight a favourite channel in a favourites group on the **Edit Favourites** screen, you can use these options:

- **A** Delete

Delete the selected channel.

- **B** Change order

Change the favourite group list order.

- **Copy**

Copy a selected channel to other favourites groups.

- **Change Fav.**

Change the favourites group.

Each time you select  using your remote, the favourites group changes.

- **Go To**

Move to the Highlight to a channel number immediately by pressing

the number button using your remote.

- ↩ Return

Return to the previous menu.

To remove a channel from a favourites group, follow these steps:

1. Select the favourite's group category.
2. Select a channel in the favourites group. A ✓ mark appears to the left of the channel.

-  You can select more than one channel.
-  If you select the selected channel again, a  mark disappears.

3. Open the **Tools** menu using your remote.

4. Select **Delete**. The message **Do you want to delete the selected item(s)?** appears.

5. Select **OK**. The message **Deleted the selected item(s).** appears.

 You can delete the selected channel from the list of favourites group immediately using the **B** function.

Display Icons Used in the Channel screens

: An analogue channel.

: A channel selected.

: A favourite channel.

: A locked channel.

Schedule Manager

 → Schedule Manager

Using this function, you can set the TV to display a desired channel automatically on a day and at a time of your choice.

 You must set the current time first using the **Time** → **Clock** function in the **System** menu to use this function.

To use Schedule Viewing, follow these steps:

1. On the **Schedule Manager** screen, select **A** using your remote.
2. A pop up screen will appear. Select **Schedule Viewing**.
3. Set **Aerial**, **Channel**, **Repeat**, and **Start Time**.
 - **Aerial**
Select the desired antenna source.
 - **Channel**

Select **Channel** to view the channel numbers. Select the desired channel.



You can only select memorised channels.



You can also enter the channel number directly using the number buttons on the standard remote or the number function button on the Smart Touch Control.

- **Repeat**

Select **Once**, **Manual**, **Sat~Sun**,

Mon~Fri or Everyday. If you select Manual, you can set the day you want.

 The  mark indicates a day you've selected.

Date: You can set a desired date.

 The Date is available only when you select Once in Repeat.

- Start Time

You can set the start time you want.

3. When done, select the OK, The

selected channel is scheduled for viewing.

 On the **Schedule Manager** screen, you can view a list of **Schedule Viewing**.

To delete an item in a list of scheduled viewing, follow these step:

1. On the **Schedule Manager** screen, highlight an item you want to delete.
2. Open the **Tools** menu using your

remote.

3. Select the **Cancel schedule**. The **Cancel selected list(s)?** message appears.

4. Select **Yes**. The selected schedule is cancelled.

 If you press the **INFO** button
for **Standard Remote Control** or
select **Info** for **Smart Touch Control**
after Highlighting an item, the
Information screen appears. On

the **Information** screen, you can change or cancel the **Schedule Viewing**.

Cancel schedule: Cancel the **Schedule Viewing**.

Edit Schedule: Change the **Schedule Viewing**.

Return: Return to the previous screen.

To use the **Schedule Recording**, follow

these steps:

(Digital channels only)

Allows you to make a reservation to record a programme scheduled for broadcast.

Set the current time first to use this function.

1. Select **Schedule Manager**. The **Schedule Manager** screen will be displayed.
2. Select **A** using your remote. A pop

up screen will appear.

3. Select the [Schedule Recording](#).

-  We recommend using a USB HDD with at least 5,400 rpm, but a USB HDD of RAID type is not supported.
-  A USB storage device cannot record until it completes the [Device Performance Test](#).
-  USB memory stick is not compatible.

4. Set the **Aerial, Channel, Repeat, Date, Start / End Time**.

 If you want to play a recorded programme, refer to **Recorded TV** in the e-Manual.

Channel List

Using this function, you can view the channel list, programme information, favourite channel, and manage of **Schedule Viewing**.

1. Press the **CH LIST** button **for Standard Remote Control** or select **CH List** **for Smart Touch Control**. The **Channel List** screen is displayed immediately.
2. Change a channel or channel list mode.

Using the coloured and function buttons with the Channel List

 If you press the **INFO** button **for Standard Remote Control** or select **Info**

for Smart Touch Control, the TV displays details of the selected program.

- **Programme View / Channel View**

Displays the programme when digital channel is selected. Returns to the channel view.

- **Ch. Mode / Channel**

Move to the type of channels you want to display on the **Channel List** screen. / On Programme View screen, change a channel.

-  **Watch / Information**

Watches the channel you select.
/ Displays details of the selected programme.

-  **Page**

Move to next or previous page.

Using the Schedule Viewing in Channel List

You can use **Schedule Viewing** in **Channel List** to schedule a digital channel programme for viewing.

The TV will turn on and display the digital channel programme when the programme begins.

1. Select **CH LIST** function using your remote. The **Channel List** screen appears.
2. Select a desired digital channel.
3. Select **C** using your remote. The TV displays the programme list of the selected channel.
4. Select a desired programme in the

programme view, and then select **Information** using your remote.

5. On the **Information** screen, select the **Schedule Viewing**. The selected programme is scheduled.

 If you want to cancel **Schedule Viewing**, follow Steps 1 through 4, and then select **Cancel schedule**.

Channel Status Display Icons

: An analogue channel.

: A reserved programme.

: A reserved recording programme.

: A locked channel.

Memorising Channels

Country

Menu → Channel → Country

Select your country so that the TV can correctly auto-tune the broadcasting channels.

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

Auto Tuning

Menu → Channel → Auto Tuning

Scans for a channel automatically and stores in the TV.

 Automatically allocated programme numbers may not correspond to actual or desired programme numbers. If a channel is locked using the **Channel Lock** function, the PIN input window appears.

- **Digital & Analogue / Digital / Analogue:**
Select the channel source to memorise.

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

Manual Tuning

Menu → **Channel** → **Manual Tuning**

Scans for a channel manually and stores in the TV.

 If a channel is locked using the Channel Lock function, the PIN input window appears.

- ☞ This function may not be supported depending on the region.

When Aerial Source is set to Air or Cable

- **Digital Channel Tuning:** Scans for a digital channel.
 - ☞ The **Bandwidth** function may not be supported depending on the region.
 1. Select the **New**.
 2. Select the **Search**. When scanning has finished, a channel is updated in

the channel list.

- **Analogue Channel Tuning:** Scans for a analogue channel.
 1. Select the **New**.
 2. Set the Programme, Colour System, Sound System, Channel and Search.
 3. Select the **Store**. When scanning has finished, a channel is updated in the channel list.

Channel mode

- **P** (programme mode): When tuning is

complete, the broadcasting stations in your area have been assigned to position numbers from P0 to P99.

You can select a channel by entering the position number in this mode.

- **C** (aerial channel mode) / **S** (cable channel mode): These two modes allow you to select a channel by entering the assigned number for each aerial broadcasting station or cable channel.

Other Features

Guide Type

Menu → Channel → Guide Type

(Depending on the country)

You can select a different type of Guide.

- **Guide**: Uses the guide programme provided by Samsung.
- **Auto**: Uses the guide programme provided by through digital broadcasts.

Transfer Channel List

Menu → Channel → Transfer Channel List

(Depending on the country)

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

Imports or exports the channel map.

You should connect USB storage to use this function.

- **Import from USB:** Import channel list from USB.

- **Export to USB:** Export channel list to USB. This function is available when USB is connected.

Fine Tune

Menu → Channel → Fine Tune

(Analogue channels only)

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, fine tune the channel manually. Scroll to the left or right until the image is clear.

-  Settings are applied to the channel you're currently watching.
-  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 the [Reset](#).

Crosstalk noise reduction

Menu → Channel → Crosstalk noise
reduction

(Analogue channels only)

This function reduces diagonal noise in the picture caused by signal crosstalk (interference). If your TV picture displays diagonal noise or distortion when you watch, turn on this function.

Changing the Preset Picture Mode

Picture Mode

Menu → Picture → Picture Mode

Picture modes apply preset adjustments to the picture.

 When your TV is connected to a PC via an HDMI to DVI cable, you can only select **Entertain** and **Standard**.

- **Dynamic**

Suitable for a bright room.

- **Standard**

Suitable for a normal environment.

- **Natural** for LED TV / **Relax** for PDP TV

Suitable for reducing eye strain.

- **Movie**

Suitable for watching movies in a dark room.

- **Entertain**

Suitable for watching movies and games.

 Only available when the TV is

connected to a PC via an HDMI to
DVI and an HDMI to HDMI cables.

Adjusting Picture Settings

Backlight **for LED TV** / Cell Light **for PDP TV**

Menu → Picture → Backlight / Cell Light

Adjusts the pixel brightness. 20 is the brightest setting.

Contrast

Menu → Picture → Contrast

Adjusts contrast level. Values closer to 100 mean bigger light/dark contrast.

Brightness

Menu → Picture → Brightness

Adjusts brightness level. Values closer to 100 mean brighter screen.

Sharpness

Menu → Picture → Sharpness

Adjusts sharpness of picture. Values closer to 100 mean a sharp image.

Colour

Menu → Picture → Colour

Adjusts colour saturation level. Values closer to 100 mean more intense colours.

Tint (G/R)

Menu → Picture → Tint (G/R)

Adjusts tint levels for green and red. Values closer to 100 mean greater intensity for that colour.

To adjust picture quality, follow these steps:

1. Select an option you want to adjust.

When you select an option, a slider screen appears.

2. Adjust the option value using your remote.

 When you change an option value, the change will affect the OSD menu also.

 When your TV is connected to a PC

via an HDMI to DVI cable, **Colour** and **Tint (G/R)** is not available.

- ☞ You can adjust and store settings for each external device connected to the TV.
- ☞ Lowering picture brightness reduces power consumption.

Changing the Picture Size

Screen Adjustment

Menu → Picture → Screen Adjustment

Using this function, you can select various picture size and aspect ratio options.

- **Picture Size**

Your cable box / satellite receiver may have its own set of screen sizes as well. However, we highly recommend

you use your TV's 16:9 mode most of the time.

If you have set Double (, ) mode in PIP (Picture-in-Picture), you cannot adjust the **Picture Size**.

Auto Wide: Automatically adjusts the picture size to the 16:9 aspect ratios.

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

Wide Zoom: Magnifies the picture size more than 4:3.

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

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

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

Screen Fit: Displays the full image

without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.

Smart View 1: Reduces the 16:9 picture by 50% **for LED TV**

Smart View 2: Reduces the 16:9 picture by 25% **for LED TV**

 **Smart View 1** is enabled only in HDMI mode.

 **Smart View 2** is enabled only in HDMI or DTV mode.

 The picture size can vary when you play content from **Videos** in **AllShare Play**.

- **Zoom/position**

Adjusts the picture zoom and position.

Zoom is only available if **Picture Size** is set to **Zoom**. **Position** is only available if **Picture Size** is set to **Wide Zoom**, **Zoom**, or **Screen Fit**.

To use the Zoom function after

selecting Zoom, follow these steps:

1. Select Zoom.
2. On the Zoom/position screen, select Zoom, and then zoom in or zoom out using your remote.
3. When done, select Zoom again, and then select Close.
4. To reset the picture, press Reset.

To use the Position function after selecting Wide Zoom, Zoom or Screen

Fit, follow these steps:

1. Select the **Position**.
2. On the **Position** screen, select **Position**, and then move the picture to position you want using your remote.
3. When done, select **Position** again, and then select **Close**.
4. To reset the picture position, select **Reset**.

Picture Sizes available by Input Source:

- ATV, AV: Auto Wide, 16:9, Wide Zoom, Zoom, 4:3
- Component (480i, 480p, 576i, 576P): 16:9, Wide Zoom, Zoom, 4:3
- DTV: Auto Wide, 16:9, Wide Zoom, Zoom, 4:3, Smart View 2 **for LED TV**
- Component(720p): 16:9, Wide Zoom, Zoom, 4:3
- Component(1080i, 1080p): 16:9, Wide Zoom, Zoom, 4:3, Screen Fit

– HDMI (720p, 1080i, 1080p): 16:9,
Wide Zoom, Zoom, 4:3, Screen Fit,
Smart View 1 for LED TV, Smart View
2 for LED TV

 The Auto Wide function may not
available depending on the country.

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

 The available items may differ
depending on the selected mode.

 HD (High Definition): 16:9 –

1080i/1080p (1920x1080), 720p
(1280x720)

 You can adjust and store settings for each external device you have connected to an input on the TV. Select the **Source**, and then adjust the settings.

- **4:3 Screen Size**

(Depending on the country)

Available only when picture size is set to Auto Wide. You can determine the

desired picture size at the 4:3 WSS (Wide Screen Service) size or the original size. Each European country requires different picture size.

 Not available in Component or HDMI mode.

Changing the Picture Options

Advanced Settings

Menu → Picture → Advanced Settings

Using this function, you can configure advanced picture settings to create your preferred picture.

 **Advanced Settings** is available only when the **Picture Mode** is set to **Standard** or **Movie** mode.

 When connecting a PC using an

HDMI-DVI cable, you can only make changes to **White Balance** and **Gamma**.

- **Dynamic Contrast**

Adjusts the screen contrast.

- **Black Tone**

Select the black level to adjust the screen depth.

- **Flesh Tone**

Emphasizes pink “Flesh Tone.”

- **RGB Only Mode**

Displays the **Red**, **Green** and **Blue** colours so you can make fine adjustments to hue and saturation.

- **Colour Space**

Adjusts the range and variety of colours (the colour space) available to create images.

 To adjust **Colour**, **Red**, **Green**, **Blue** and **Reset**, set the **Colour Space** to **Custom**.

- **White Balance**

Adjusts the colour temperature for a more natural picture.

R-Offset / G-Offset / B-Offset:

Adjusts each colour's (red, green, blue) darkness.

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

Reset: Resets the White Balance to its default settings.

- **10p White Balance**

Lets you control the white balance

by adjusting the red, green, and blue brightness in 10 point intervals.

 Available when the **Picture Mode** is set to **Movie**. Available for all video source.

 Some external devices may not support this function.

Interval: Select the interval to adjust.

Red: Adjusts the red level.

Green: Adjusts the green level.

Blue: Adjusts the blue level.

Reset: Resets the **10p White Balance** to its default settings.

- **Gamma**

Adjusts the primary colour intensity.

- **Expert Pattern**

Use the **Expert Pattern** function to calibrate the picture. If the OSD menu disappears or a menu other than the **Picture** menu is opened, the TV saves the calibration and the **Expert Pattern** screen disappears.

Off: Turns the **Expert Pattern** function off.

Pattern1: This test screen demonstrates the effect of your display settings on shades of grey and black.

Pattern2: This test screen demonstrates the effect of your display settings on colours.

 After selecting **Pattern1** or **Pattern2**, you can adjust any of the advanced settings for the desired effect.

 While the **Expert Pattern** is running, the TV does not output sound.

 Only enabled in Component, and HDMI modes.

- **xvYCC**

Setting **xvYCC** on increases picture detail and enlarges the colour space when you are watching movies input from an external device (e.g. BD/DVD player) connected to the TV's HDMI or Component IN jacks.

- ☞ Available only when you set the **Picture Mode** to **Movie** and the external input to HDMI or Component.
- ☞ Some external devices may not support this function.

- **Motion Lighting**

Reduces power consumption by reducing screen brightness when the picture on the screen is in motion.

- ☞ This feature is not supported in **3D**

mode.

☞ Only available in **Standard** mode.

☞ When you change the **Backlight**
for LED TV / **Cell Light** **for PDP TV**,
Contrast, or **Brightness**, the TV sets
Motion Lighting to **Off**.

- **Black enhancer** **for LED TV**

Adjust black colour depth to enhance picture perspective.

Menu → Picture → Picture Options

Using this function, you can configure additional picture settings to suit your preference.

 When your TV is connected to a PC via an HDMI to DVI cable, you can only make changes to **Colour Tone**.

- **Colour Tone**

Select the colour temperature.

 **Warm1** or **Warm2** will be deactivated when the **Picture Mode** is set to

Dynamic.

 You can adjust and store settings for each external device connected to an input on the TV. Select **Source** and then adjust the settings.

- **Digital Noise Filter**

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

Auto Visualisation: When changing analogue channels, displays signal strength.

 When the signal is weak, try all the options until the TV displays the best picture.

 Only available for analogue channels.

 When the bar is green, you are receiving the best possible signal.

- **MPEG Noise Filter**

Reduces MPEG noise to provide

improved picture quality.

- **HDMI Black Level**

Lets you adjust the screen depth by selecting a black level.

 Available only in HDMI mode.

- **Film Mode**

Sets the TV so that it senses and then processes film signals from all sources automatically and adjusts the picture for optimum quality.

 Available in TV, AV, Component (480i

/ 1080i) and HDMI (1080i).

- **Motion Plus** for LED TV

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

 The Info screen on your TV displays the resolution and frequency of the incoming signal (60Hz), but not the frequency the TV is generating for the image it is displaying by using **Motion Plus** function.

 If noise occurs on the screen, please set up the **Motion Plus** to **Off**. If **Motion Plus** is **Custom**, you can set up the **Blur Reduction**, **Judder Reduction** or **Reset** manually.

 If **Motion Plus** is **Demo**, you can compare the difference of on and off modes.

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 to the factory defaults.

 The info screen on your TV displays the resolution and frequency of the incoming video signal (60 Hz). This displayed frequency is not the frequency of the picture the TV is displaying when you have **Motion Plus** on.

 If noise occurs on the screen, please set **Motion Plus** to **Off**. If **Motion Plus** is set to **Custom**, you can control **Blur Reduction** and **Judder Reduction** manually and use **Reset** to reset both to their default settings.

 If **Motion Plus** is set to **Demo**, you can compare the difference between a picture with **Motion Plus On** and **Motion Plus Off**.

- **LED Motion Plus** **for LED TV**

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

Reset Picture

Menu → Picture → Reset Picture

Resets your current picture mode to its default settings.

Using the TV with Your PC

Using Your TV as a Computer (PC) Display

Entering the Video Settings (Based on Windows 7)

For your TV to work properly as a computer display, you must enter the correct video settings after you have connected the TV to your PC.

 Depending on your version of

Windows and your video card, the procedure on your PC will probably differ slightly from the procedure presented here.

 However, the same basic information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. Click “Control Panel” on the Windows start menu.

2. Click “Appearance and Themes”

in the “Control Panel” window. A display dialogue box appears.

3. Click “Display”. Another display dialogue box appears.

4. Click the “Settings” tab on the display dialogue box.

- On the Settings tab, set the correct resolution (screen size).

The optimal resolution for this TV is 1920 x 1080.

- If a vertical-frequency option

exists on your display settings
dialogue box, select “60” or “60
Hz”. Otherwise, just click “OK”
and exit the dialogue box.

Changing the Preset Sound Mode

Sound Mode

Menu → Sound → Sound Mode

Sound modes apply preset adjustments to the sound.

 If **Speaker Select** is set to **External Speaker**, **Sound Mode** is disabled.

- **Standard**

Selects the normal sound mode.

- **Music**

Emphasizes music over voices.

- **Movie**

Provides the best sound for movies.

- **Clear Voice**

Emphasizes voices over other sounds.

- **Amplify**

Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

Adjusting Sound Settings

Sound Effect

Menu → Sound → Sound Effect

- ☞ If **Speaker Select** is set to **External Speaker**, **Sound Effect** is disabled.
- ☞ Available only when the **Sound Mode** is set to **Standard**.

- **Virtual Surround**

This function provides a virtual 5.1 channel surround sound experience

through a pair of speakers using HRTF (Head Related Transfer Function) technology.

- **Dialog Clarity**

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

- **Equaliser**

The **Equaliser** displays a series of sliders. Use the arrow buttons to select

a slider, and then change the slider's value. To **Reset** the **Equaliser**, select **Reset**. A pop-up appears asking if you want to reset. Select **Yes**. To exit, select **Close**.

Balance L/R: Adjusts the balance between the left and right speaker.

100Hz / 300Hz / 1kHz / 3kHz / 10kHz

(Bandwidth Adjustment): Adjusts the volume level of specific bandwidth frequencies.

Reset: Resets the Equaliser to its default settings.

3D Audio

Menu → Sound → 3D Audio

3D audio technology provides the immersive sound corresponding to the pop-up effect of 3D video by using audio depth control in perspective.

 Available only when watching 3D images.

Broadcast Audio Options

Menu → Sound → Broadcast Audio Options

- **Audio Language**

(Digital channels only)

Change the default value for audio languages.

 The available language may differ depending on the broadcast.

- **Audio Format**

(Digital channels only)

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

 **Audio Format** option may differ depending on the broadcast. 5.1ch Dolby digital sound is only available when connecting an external speaker through an optical cable.

- **Audio Description**

(Not available in all locations) (Digital channels only)

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

 **Audio Description (Off / On):** Turn the audio description function on or off.

 **Volume:** Adjust the audio description

volume.

Additional Settings

- DTV Audio Level

(Digital channels only)

This function allows you to reduce the disparity of a voice signal (which is one of the signals received during a digital TV broadcast) to a desired level.

 According to the type of broadcast signal, **MPEG** / **HE-AAC** can be

adjusted between -10dB and 0dB.

 To increase or decrease the volume, adjust between the range 0 and -10 respectively.

- **SPDIF Output**

SPDIF (Sony Philips Digital InterFace) is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

Audio Format

You can select the Digital Audio output (SPDIF) format.

 The available Digital Audio output (SPDIF) format may differ depending on the input source.

Audio Delay

Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening to digital audio output from the TV through an external device such

as an AV receiver. When you select the **Audio Delay** function, a slider screen appears. Adjust the option value using your remote (0ms ~ 250ms).

- **Dolby Digital Comp**

This function minimizes signal disparity between a dolby digital signal and a voice signal (i.e. MPEG Audio, HE-AAC, ATV Sound).

 Select Line to obtain dynamic sound, and RF to reduce the difference

between loud and soft sounds at night time.

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

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

Speaker Settings

Menu → Sound → Speaker Settings

- **Speaker Select**

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's speakers and the speakers attached to your audio receiver. If this occurs, set the TV to **External Speaker**.

 When **Speaker Select** is set to **External Speaker**, the TV's speakers

are turned off. You will hear sound through the external speakers only. When the **Speaker Select** is set to **TV Speaker**, both the TV's speakers and the external speakers are on. You will hear sound through both.

- ☐ When the **Speaker Select** is set to **External Speaker**, the volume buttons and mute functions will not operate and the sound settings will be limited.

 If there is no video signal, both the TV's speakers and the external speakers will be mute.

- **Auto Volume**

Normal: Automatically equalizes the volume level when switching to another channel.

Night: Automatically equalizes and decrease the volume level on each channel, so each channel is quieter.

Night is useful at night, when you may

want to keep the volume low.

 To use the volume control of a connected source device, set **Auto Volume** to **Off**. If **Auto Volume** is set to **Normal** or **Night**, adjusting the volume control of a connected source device may have to effect.

Reset Sound

Menu → **Sound** → **Reset Sound**

Reset all sound settings to the factory

defaults.

Connecting to the Network

The Wired Network Connection

There are three ways to attach your TV to your LAN using cable:

- ☐ For illustrations of the three kinds of wired network connections, see your paper user's manual.
- You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an external

modem using a LAN cable.

- You can attach your TV to your LAN by connecting the LAN port on the back of your TV to router which is connected to an external modem. Use LAN cable for the connection.
- You may be able to attach your TV to your LAN by connecting the LAN port on the back of your TV directly to a network wall outlet using a LAN cable. Note that the wall outlet

is attached to a modem or router elsewhere in your house.

- ☞ If you have a Dynamic Network, you should use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your TV needs to access the Internet so you do not have to

enter them manually. Most home networks are Dynamic Networks.

- ☞ Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually when you set up the network connection. To get the IP address, subnet mask, gateway, and DNS values contact your Internet Service Provider (ISP). If

you have a Windows computer, you can also get these values through your computer.

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

The Wireless Network Connection

- ☞ For an illustration of the wireless

network connection, see your paper user's manual.

You can connect your TV to your LAN through a standard wireless router or modem.

This TV supports the IEEE 802.11a/b/g and n communication protocols.

Samsung recommends using IEEE 802.11n. When you play video over a network connection using IEEE 802.11 a/b or g, the video may not play

smoothly.

- ☞ To use a wireless network, your TV must be connected to a wireless router or modem. If the wireless router or modem supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.
- ☞ Select a channel on the wireless router or modem that is not currently being used. If the channel set for the

wireless router or modem is currently being used by another device nearby, this will result in interference and communication failure.

 Your TV supports only the following wireless network security protocols:

- Authentication Mode: WEP, WPA2PSK, WPA2PSK
- Encryption Type: WEP, TKIP, AES

 If you select the Pure High-throughput (Greenfield) 802.11n

mode and the Encryption type is set to WEP, TKIP on your AP (access point) or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

- ☐ If your wireless router or modem supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or a PIN (Personal

Identification Number). WPS will automatically configure the SSID and WPA key in either mode.

- ☞ If your router, modem, or device is not certified, it may not connect to the TV.
- ☞ Connection Methods: You can set up the wireless network connection in four ways:
 - Using Auto Setup (with the Auto Network Search function)

- Using Manual Setup
- Using WPS(PBC)
- Using Plug & Access

Setting up a Wired Network

Network Settings

Menu → Network → Network Settings

Set up the wired network connection so you can use various Internet services such as **Smart Hub** and **AllShare Play** and perform software upgrades.

Automatic Wired Network Setup

You can configure your TV's wired

network connection automatically when connecting your TV to a network that supports DHCP.

 If you have connected a LAN cable, the wired network set up screen appears automatically.

To set up your TV's wired network connection automatically, follow these steps:

1. Go to the **Network Settings** screen.

(Menu → Network → Network Settings)

2. Select **Start**. The network test screen appears and verifies the network connection.
3. When the connection has been verified, the "**You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider.**" message appears. Select

OK.

- ☐ If the connection process fails, check the LAN port connection.
- ☐ If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section, "Manual Network Setup."

Manual Wired Network Setup

You can configure your TV's wired

network connection manually when connecting your TV to a network that requires a Static IP address.

Getting the Network Connection Values

To view the Network connection values on most windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu that appears,

click Status.

3. On the dialogue that appears, click the Support tab.
4. On the Support Tab, click the Details button. The Network connection values are displayed.

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

1. Go to the [Network Settings](#) screen.

(Menu → Network → Network Settings)

2. Select **Start**. The network connection screen appears and the verification process starts.
3. Select **Stop**. The verification process stops. Select **IP Settings** on network connection screen. The **IP Settings** screen appears.
4. Select the **IP Mode**, and then set the **IP Mode** to **Manual**.

5. Go to the **IP Address** entry field, and then select the IP Address using the remote.
6. Enter the first portion of the **IP Address** (for example, 105) into the first entry field using your remote. When done, go to the next field.
7. Enter the next portion of the **IP Address**. When done, go to the next field.
8. Repeat the entry process for each

field in the **IP Address**.



If you make a mistake when entering a number, re-enter the number to correct it.

9. When done, go to the **Subnet Mask** fields.

10. Repeat the same entry process for **Subnet Mask**, **Gateway**, and **DNS Server**.

11. When done, select **OK**. The network test screen appears and the

verification process starts. When the connection has been verified, the "You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider." message appears. Select OK.

Network Status

You can check the current network and Internet status.

If the wired network connection failed...

- **No network cable found.**

Check if your network cable is plugged in. If it is connected, make sure that the router is turned on. If it is on, try turning it off and on again.

- **IP auto setting failed.**

Try the following to set your IP address automatically or set your IP address manually by selecting [IP Settings](#).

1) Ensure that DHCP server is enabled on the router. 2) Unplug and re-plug-in the router. 3) Contact your Internet Service Provider for more information.

- **Unable to connect to the network.**

Try the following: check if your IP address is set correctly in [IP Settings](#). Contact your Internet Service Provider for more information.

- **Connected to your local network, but cannot connect to the Internet.**

Check the DNS settings in [IP Settings](#) or contact your Internet Service Provider to access the Internet.

- **Network setup complete, but cannot connect to the Internet.**

Contact your Internet Service Provider to access the Internet.

Setting up the Wireless Network

Network Settings

Menu → Network → Network Settings

Set up the wireless network connection so you can use various Internet services such as **Smart Hub** and **AllShare Play** and perform software upgrades.

Automatic Wireless Network Setup

Most wireless networks have an

optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network.

If you use this method of setting up the network connection, and have a

Security Key for your wireless network, you will have to enter the Pass Phrase during the automatic or manual setup process.

 Depending on your router or modem, you may be able to use a WPS PIN instead.

To set up your TV's wireless network connection automatically, follow these steps:

1. Go to the **Network Settings** screen.
(**Menu** → **Network** → **Network Settings**)
2. Select **Start**. The network function searches for available wireless networks. When done, it displays a list of the available networks.
3. In the list of networks, select a network you want to connect to and then select **Next**.



If the wireless router is set to

Hidden (Invisible), you have to select **Add Network** and enter the correct **Network Name** (SSID) and **Security Key** to establish the connection.

4. If the Enter security key screen appears, go to step 5. If you selected a wireless router that does not have security, go to step 7.

5. To set up wireless security, enter the Security Key or a **WPS PIN** using the

keyboard on the Enter security key screen.

-  To enter letters, highlight and select each letter. To enter numbers, highlight and select each number or press the number buttons on your remote.
-  To shift to capital letters (or from capital letters to lower case), select the **Caps** or **Shift** button.
-  To display symbols and

punctuation, select 🌟. To redisplay letters, select 🌟 again.

📝 You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.

6. When done, select **Next** if you entered a Security Key or **WPS PIN** if you entered a PIN. The network connection screen appears and the verification process starts.

7. When the connection has been verified, the “**You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider.**” message appears.

 If the network does not accept the Security Key or PIN, select **Retry** or select **IP Settings** to enter the settings manually.

 If you want to set up the connection

manually, select **IP Settings**. Then, go to the next section, “Manual Network Setup”.

Manual Wireless Network Setup

You can configure your TV's wireless network connection manually when connecting your TV to a network that requires a Static IP address or if the automatic connection process has failed.

Getting the Network Connection Values

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

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu that appears, click Status.
3. On the dialogue that appears, click the Support tab.

4. On the Support Tab, click the Details button. The Network connection values are displayed.

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

1. Go to the **Network Settings** screen.
(**Menu** → **Network** → **Network Settings**)
2. Select **Start**. The network function

searches for available wireless networks. When done, it displays a list of the available networks.

3. In the list of networks, select a network you want to connect to and then select **Next**.

 If the wireless router is set to Hidden (Invisible), you have to select **Add Network** and enter the correct **Network Name** (SSID) and **Security Key** to establish the

connection.

4. If the Enter security key screen appears, go to step 5. If you selected a wireless router that does not have security, go to step 7.

5. To set up wireless security, enter the Security Key or a **WPS PIN** using the keyboard on the Enter security key screen.

 To enter letters, highlight and select each letter. To enter

numbers, highlight and select each number or press the number buttons on your remote.

 To shift to capital letters (or from capital letters to lower case), select the **Caps** or **Shift** button.

 To display symbols and punctuation, select 🌟. To redisplay letters, select 🌟 again.

 You should be able to find the Pass Phrase on one of the set up

screens you used to set up your router or modem.

6. When done, select **Next** if you entered a Security Key or **WPS PIN** if you entered a PIN. The network connection screen appears and the verification process starts.
7. Select **Stop**. The verification process stops. Select **IP Settings** on the network connection screen. The **IP Settings** screen appears.

8. Select **IP Mode**, and then set the **IP Mode** to **Manual**.
9. Go to the **IP Address** entry field, and then select the **IP Address** using the remote.
10. Enter the first portion of the **IP Address** (for example, 105) into the first entry field using your remote. When done, go to the next field.
11. Enter the next portion of the **IP Address**. When done, go to the next

field.

12. Repeat the entry process for each field in the **IP Address**.

 If you make a mistake when entering a number, re-enter the number to correct it.

13. When done, go to the **Subnet Mask** fields.

14. Repeat the same entry process for **Subnet Mask**, **Gateway**, and **DNS Server**.

15. When done, select **OK**. The network connection screen appears and the verification process starts. When the connection has been verified, the "You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider." message appears.

WPS(PBC) Network Setup

If your router has a WPS(PBC)

button, you can configure your TV's wireless network connection using the WPS(PBC) button quickly and easily.

To set up your TV's wireless network connection using WPS(PBC), follow these steps:

1. Go to **Network Settings** screen.

(**Menu** → **Network** → **Network Settings**).

2. Select **Start**. The Network function

searches for available wireless networks. When done, it displays a list of the available networks.

3. Select the **WPS(PBC)**.
4. Press the WPS(PBC) button on your router within 2 minutes. Your TV automatically acquires all the network setting values it needs and connects to your network.
5. The network connection screen appears, and network setup is done.

Plug & Access Network Setup

The **Plug & Access** function lets you easily connect your Samsung TV to your Samsung wireless router(sold separately) by using a USB memory stick to transfer the setup information from the router to the TV. If your non-Samsung wireless router does not support **Plug & Access**, you must connect using one of the other

methods.

 You can check for equipment that supports **Plug & Access** on www.samsung.com.

To set up your TV's wireless network connection using Plug & Access, follow these steps:

1. Turn on the Samsung wireless router and your TV.
2. Insert a USB memory stick into the

USB port in your Samsung wireless router. Check the router's LED's to make sure it is on (Blinking → on).

3. Take the USB memory stick out of the router, and then insert it into a USB port on your Samsung TV. The memory stick downloads the connection information.

4. Wait until the connection is automatically established.

 If **Plug & Access** does not connect

your TV to your wireless router, a popup screen appears on the screen notifying you of the failure. If you want to try using **Plug & Access** again, disconnect the USB memory stick, reset the router, and then try again from Step 1. You can also choose one of the other connection setup methods.

5. The network connection screen appears, and the network setup is

done.

- ☞ If the wireless router's settings change or you install a new wireless router, you must perform the **Plug & Access** procedure again, beginning from Step 1.

Network Status

You can check the current network and Internet status.

If the wireless network connection failed...

- **Wireless network connection failed.**

No wireless router selected. Go to [Network Settings](#) to select your router.

- **Unable to connect to wireless router.**

Try the following: check if the router is turned on, and if it is, try turning it off and on again. Check if you need to enter a security key to use the router.

- **IP auto setting failed.**

Try the following to set your IP address

automatically or set your IP address manually by selecting '[IP Settings](#)'.

1) Ensure that DHCP server is enabled on the router. 2) Unplug and re-plug-in the router. 3) Contact your Internet Service Provider for more information.

- **Unable to connect to the network.**

Try the following: check if your IP address is set correctly in [IP Settings](#). Contact your Internet Service Provider for more information.

- **Connected to your local network, but cannot connect to the Internet.**

Check the DNS settings in [IP Settings](#), or contact your Internet Service Provider to access the Internet.

- **Network setup complete, but cannot connect to the Internet.**

Contact your Internet Service Provider to access the Internet.

Managing the Network Connected Devices

Wi-Fi Direct

Menu → Network → Wi-Fi Direct

Set to connect the TV to wireless mobile devices. Using this function, you can connect wireless mobile devices to your TV directly without a router.

 To use this function, your mobile device should be supported by the **Wi-Fi Direct**.

To connect your mobile device with your TV using Wi-Fi Direct, follow these steps:

1. Turn on the **Wi-Fi Direct** device and activate its **Wi-Fi Direct** function.
2. Go to the **Wi-Fi Direct** screen.
(**Network** → **Wi-Fi Direct**) The TV starts to search devices, and then displays the devices on the **Wi-Fi Direct** screen.

3. Turn on the **Wi-Fi Direct** function on your device. Select the desired Wi-Fi device.

- For **PBC**: Press the WPS(PBC) button on your Wi-Fi device within 2 minutes. The Connecting popup appears, followed by the Connected pop-up. When it closes, you should see the device listed on the **Wi-Fi Direct** screen as connected.

- For **PIN**: Input the displayed PIN number on your device. The Connecting popup appears, followed by the Connected pop-up. When it closes, you should see the device listed on the **Wi-Fi Direct** screen as connected.

-  If you want to disconnect the device, select the connected Wi-Fi device, and then select **Disconnect**.

Soft AP

Menu → Network → Soft AP

Using this function, you can connect the TV to your mobile devices if your mobile device does not support **Wi-Fi Direct**.

The **Soft AP** screen lets you set the options for connecting Wi-Fi devices.

- **Soft AP**

Turns **Soft AP** on or off. When **Soft AP**

is set to **On**, your mobile devices can find the TV's network name in their Wi-Fi connection list.

- **Security Key**

Enter a **Security Key** at least 8 characters long using the remote control. Select **Done** when finished.

- If the security key is not at least 8 characters long, **Done** is not available.
- To connect a mobile device to the

TV, you must input the security key into the device.

- If network does not operate correctly, check the security key again. An incorrect security key may cause a malfunction.

AllShare Settings

Menu → Network → AllShare Settings

AllShare Play lets you play Videos,

Photos, or Music located on your PC or

your DLNA compatible device on the TV using a network connection. It also lets you control the TV through these devices.

The [AllShare Settings](#) screen lists your network connected AllShare devices and their IP addresses. Through this screen, you can allow a device to access the TV, deny access, or delete the device from the AllShare list.

The [AllShare Settings](#) screen only

displays devices if you have established networked connections to AllShare devices. Otherwise, it will be empty.

To use the AllShare network function, you must install the AllShare network software on your PC. For details on set up options, refer to "Using the AllShare Play Functions".

Device Name

Menu → Network → Device Name

Enter a name for this TV. This name will be shown on network remote controls and devices using [AllShare Play](#).

 A keyboard appears on the screen. Key in a name for your TV manually using your remote. When finished, select [Done](#).

 To enter letters, highlight and select each letter. To enter numbers, highlight and select each number or press the number buttons on your

remote.

- ☞ To shift to capital letters (or from capital letters to lower case), select the **Caps** or **Shift** button.
- ☞ To display symbols and punctuation, select 🌟. To redisplay letters, select 🌟 again.

Setting the Time

Time

Menu → System → Time

 The time you set will appear when you press the **INFO** button **for Standard Remote Control** or select **Info** **for Smart Touch Control**.

- **Clock**

Set the clock to use the various timer features of the TV.

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

Clock Mode: Set the current time manually or automatically.

– **Auto:** The TV sets the current time automatically using the time from a digital channel.

 You must have the cable or an antenna connected to the TV to set the time automatically.

 Depending on the broadcast

station and signal, the auto time set up may not be correct. In this case, set the time manually.

- **Manual:** Set the current time manually.

Clock Set: Set the **Date** and **Time** manually. You can set the current date and time using your remote.

 Available only when the **Clock Mode** is set to **Manual**.

Time Zone: Select your time zone.

 The **Time Zone** function may not be supported depending on the region.

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

- **Sleep Timer**

Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150, or 180 minutes).

 Select a period of time using your remote. To cancel the **Sleep Timer**, select **Off**.

- On Timer

Set **On Timer** so that your TV turns on automatically at a time and on a day of your choosing. You can set up three separate **On Timer** configurations(**On Timer 1**, **On Timer 2**, **On Timer 3**) and select the source of the content the TV plays when it turns on: an air or cable channel, a USB device, or a set-top box connected to one of the TV's inputs (HDMI1, AV, etc.).

 You must set the clock before you can use the **On Timer** function.

Setup: Select **Off**, **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual**.

If you select **Manual**, you can choose the days you want **On Timer** to turn on your TV.

 The  mark indicates days you've selected.

Time: Set the time that the TV turns on automatically.

Volume: Set the desired volume level.
Change the volume level using your remote.

Source: To select the source of the content that will play when the TV turns on. You can:

- Select **TV** and have the TV display a specific air or cable channel.
- Select **USB** and have the TV play back photo or audio files from a USB device.

- Select a source on your TV (**HDMI1**, **HDMI2**, **Component**, etc.) that you have connected a set-top box to, and have the TV display a channel from the set-top box.

 The USB device must be connected to your TV before you can select **USB**.

 If you select a source other than TV or USB, you must:

- ♦ Have a cable or satellite set-top

box attached to that source

- ♦ Set the set-top box to the channel you want to watch when the TV goes on.
- ♦ Leave the set-top box turned on.

 When you select a source other than **TV** the **Aerial** and **Channel** options will disappear.

Aerial (when the **Source** is set to **TV**):

Select **ATV** or **DTV**.

Channel (when the **Source** is set to **TV**):

Select the desired channel.

Music / Photo (when the **Source** is set to **USB**): Select a folder in the USB device that contains music that you want played when the TV turns on automatically or a folder that contains music and a folder that contains photo files. If you select both, the TV will display the photos you selected as it plays the music you selected.

To select folders on the USB device,

follow these steps:

1. Select **Music**. The TV displays a single folder (the Root folder) and the type or name of the device.
2. Select the type or name of the device you want to play. A list of folders on the selected device appears.



If there are no folders on your device, move the highlight to the **Select**, and then select the

Root folder. The Timer screen re-

appears with the name of the device in the Music field. Go to Step 4.

3. Highlight a folder that contains music, highlight the **Select** next to it. The Timer screen re-appears with the folder name in the Music field.
4. If you want the TV to display photos as the music you chose plays, select **Photos**, and then repeat the same process.

5. When done, select the **Close** at the bottom of the screen.

- ☞ You must select a music file. You cannot select only a photo file.
- ☞ If there is no music file on the USB device or you don't select a folder containing a music file, the Timer function does not operate correctly.
- ☞ If there is only one photo file in the USB, the slide show will not play.
- ☞ If a folder name is too long, the

folder cannot be selected.

- ☞ Each USB you use is assigned its own folder. When using more than one of the same types of USB, make sure the folders assigned to each USB have different names.
- ☞ We recommend that you use a USB memory stick and a multi card reader when using the **On Timer**. The **On Timer** function may not work with USB devices that have a built-in

battery, MP3 players, or PMPs made by some manufacturers because the TV can take too long to recognize these devices.

 If you set the **On Timer** to play a file saved on a USB HDD, it may take up to 40 seconds or more to play the file after the TV is turned on.

- **Off Timer**

Set **Off Timer** so that your TV turns off automatically at a time and on a day

of your choosing. You can set up three separate **Off Timer** configurations. (**Off Timer 1**, **Off Timer 2**, **Off Timer 3**)

 You must set the clock before you can use the **Off Timer**.

Setup: Select **Off**, **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual**.

If you select **Manual**, you can choose the days you want **Off Timer** to turn off your TV.

 The  mark indicates days you've

selected.

Time: Set the time that the TV turns off automatically.

Blocking Programmes

Security

Menu → System → Security

Using this function, you can configure programme related security options.

Every time you access the Security functions, the PIN screen will appear and you must enter that PIN. The PIN screen closes and the Security menu appears.

- Channel Lock

Lock channels in Channel menu, to prevent unauthorized users, such as children, from watching unsuitable programme.

 Available only when the Source is set to TV.

- Programme Rating Lock

(Depending on the country)

When turned on, the Programme Rating Lock feature can automatically

block programmes that you deem inappropriate for your children.

You must enter a PIN (personal identification number) before you can set or change any of the **Programme Rating Lock** restrictions.

 The items of **Programme Rating Lock** differs depending on the country.

- **Change PIN**

The **Change PIN** screen will appear.

Choose any 4 digits for your PIN and

enter them in the **Enter New PIN**. Re-enter the same 4 digits in the **Confirm New PIN**. When the Confirm screen disappears, select **Cancel**. The TV has memorised your new PIN.

How to watch a restricted programme or movie

If the TV is tuned to a restricted programme or movie, the **Programme Rating Lock** will block it.

The screen will go blank and the message **This channel is blocked by Channel lock settings. Please enter PIN to unblock.** appears. Enter the PIN to unblock the programme or movie using your remote.

Economical Solutions

Eco Solution

Menu → System → Eco Solution

- Energy Saving

Lets you adjusts the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except the volume button to turn on the

screen.

- **Eco Sensor**

To enhance your power savings, the picture settings will automatically adapt to the light in the room.

 If you adjust **Backlight** **for LED TV** / **Cell Light** **for PDP TV** in the **Picture** menu, the **Eco Sensor** is set to **Off** automatically.

Min. Backlight **for LED TV** / **Min Cell Light** **for PDP TV**: When the **Eco Sensor**

is set to **On**, you can manually adjust the minimum screen brightness.

 If the **Eco Sensor** is set to **On**, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity. You can control the screen's minimum brightness with the **Min. Backlight** **for LED TV** / **Min Cell Light** **for PDP TV** function.

- **No Signal Power Off**

To avoid unnecessary energy consumption, you can set how long you want the TV to remain on if it's not receiving a signal.

- **Auto Power Off**

The TV will automatically turn off if you don't press a button on your remote or TV controller within 4 hours to prevent overheating.

Picture In Picture (PIP)

PIP

Menu → System → PIP

You can watch a programme whose signal has passed through the TV's tuner and watch video from one external video source simultaneously.

If you have a Blu-ray player connected to the TV, for example, you can watch a TV programme and the Blu-ray movie

at the same time by using the PIP feature.

 While **Smart Hub** or **Programme Rating Lock** is on, you cannot use the **PIP**.

- **PIP**

Activate or deactivate the **PIP** function.

- **Channel**

Select the channel for the sub-picture screen.

- **Size**

Select a size for the sub-picture screen.

- **Position**

Select a position for the sub-picture screen.

 In Double (, ) mode, you cannot select Position.

- **Sound Select**

You can choose to listen to the sound from the main picture or the sub picture.

 If you turn the TV off while watching

in the **PIP** mode, the **PIP** function is reset to **Off**. When you turn your TV on, you must turn **PIP** on again to watch in the **PIP** mode.

-  You may notice that the picture in the **PIP** screen becomes slightly unnatural when you use the main screen to view a game or karaoke.
-  **PIP** does not work when the **3D** function is active.
-  **PIP** Settings: The picture from the

external video source will be in the main screen and the picture from the TV's tuner will be in the **PIP** sub-picture screen.

- Main picture: Component, HDMI
- Sub picture: TV

Other Features

Language

Menu → System → Language

- Teletext Language

Set a desired language for teletext.

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

- Preferred Language

Select a language, which will be the

default language when a channel is selected.

Device Manager

Using this function, you can set up a keyboard or mouse to use with the TV. You can view your device lists and adjust keyboard or mouse settings in this menu.

 Depending on the model of the USB
HID keyboard and mouse may not be

compatible with your TV.

 You can connect a keyboard and mouse at the same time.

- **Keyboard settings**

Lets you use a USB or Bluetooth keyboard with your TV. If you want to use a USB keyboard, connect it to the USB port. If you want to use a Bluetooth keyboard, connect it using the Bluetooth function.

 You can use the keyboard only when

the **QWERTY** keypad screen appears in the **Web Browser**.

Select keyboard

Select which keyboard to use from your keyboard list. You can only use one keyboard at a time, even if several are connected.

Add Bluetooth Keyboard

You can add a Bluetooth keyboard.

Keyboard Options

Sets the default options for the

keyboard language and type.

- **Keyboard Language:** Set a language for your keyboard.
- **Keyboard type:** Set what a type of keyboard you're using to enter text.
- **Switch Input Language:** Select a key sequence to change switching input language.
- **Mouse settings**

Lets you use a USB or Bluetooth mouse with your TV. If you want to use a USB

mouse, connect it to the USB port. If you want to use a Bluetooth mouse, connect it using the Bluetooth function.

You can use a mouse in the TV's menu in the same way you use a mouse on your PC.

Select mouse

Select which mouse to use from your mouse list. You can only use one mouse at a time, even if several are connected.

Add Bluetooth mouse

You can add a Bluetooth mouse.

Mouse Options

Sets the default options for the mouse buttons.

- **Primary Button**: Select the main button you want to use to click and select on screen.
- **Pointer Size**: Set the size of the on-screen mouse pointer.
- **Pointer Speed**: Select the speed of

the mouse pointer.

Using the TV's menu with a mouse

1. Connect a USB or Bluetooth mouse on your TV.
2. Click a primary button you selected.
The **Mouse Tools** pop-up appears.
3. Select **Smart Hub** or **Menu** in **Go To**.
4. Use the mouse the same way you would use a mouse on your computer. For example, to open

Channel on the **Smart Hub** screen,
click the Channel icon.

- ☞ To exit an entry field that does not close, click ↩ **Return**.
- ☞ To exit a menu or **Smart Hub** screen, click ↩ **Return**.
- ☞ To hide the mouse pointer, move it slightly off the bottom of the screen.

Subtitle

(On-Screen Text Messages)

Menu → System → Subtitle

Use this menu to set the **Subtitle** mode.

- **Subtitle**

Switches subtitles on or off.

- **Subtitle Mode**

Sets the subtitle mode.

- **Subtitle Language**

Sets the subtitle language.



If the programme you are

watching does not support the

Hearing Impaired function, **Normal**

automatically activates even if the **Hearing Impaired** mode is selected.

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

Digital Text

- 📝 The **Digital Text** function may not be supported depending on the region.

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

MHEG (Multimedia and Hypermedia Information Coding Experts Group):
An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being

applied to various fields including VOD (Video-On-Demand), ITV (Interactive TV), EC (Electronic Commerce), tele-education, tele-conferencing, digital libraries and network games.

Screen Burn Protection for PDP TV

To reduce the possibility of screen burn, this unit is equipped with Pixel Shift screen burn prevention technology. Pixel Shift moves the picture slightly on

the screen.

The Pixel Shift Time setting allows you to programme the time between movements of the picture in minutes.

Your TV also has the following additional screen burn protection functions:

- Pixel Shift
- Auto Protection Time
- Scrolling
- Side Grey

- Pixel Shift

Using this function, you can set the TV to move pixels minutely on the PDP screen in a horizontal or vertical direction to minimize after images on the screen.

Available Pixel Shift settings and optimum settings:

Horizontal

- Available Settings: 0 - 4 (pixels)

- Optimum settings for TV/AV/
Component/HDMI: 4

Vertical

- Available Settings: 0 - 4 (pixels)
- Optimum settings for TV/AV/
Component/HDMI: 4

Time (minutes)

- Available Settings: 1 - 4 min
- Optimum settings for TV/AV/
Component/HDMI: 4 min



The **Pixel Shift** value may differ

depending on the monitor size (inches) and mode.

 This function is not available in the **Screen Fit** mode.

- **Auto Protection Time**

If the screen displays a still image for a certain period of time you define, the TV activates the screen saver to prevent the formation of burnt in ghost images on the screen.

- **Scrolling**

This function removes after-images on the screen by illuminating all the pixels on the screen according to a pattern.

Use this function when there are after images or symbols on the screen, especially when you displayed a still image on the screen for a long time.

 The after-image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after-images on the screen.

If the after-image is not removed after you apply the function, repeat the function.

 Press any button to cancel this feature.

- **Side Grey**

When you watch TV with the screen ratio set to 4:3, using the **Side Grey** function can prevent damage to the edges of the screen by adjusting the white balance on the extreme left and

right sides.

Auto Protection Time for LED TV

If the screen displays a still image for a certain period of time you define, the TV activates the screen saver to prevent the formation of burnt in ghost images on the screen.

General

Menu → System → General

- **Game Mode**

When you have connected a game console such as a PlayStation™ or Xbox™ to the TV, you can enjoy a more realistic gaming experience if you set the **Game Mode** on.

Precautions and limitations for Game Mode

- Before disconnecting a game console and connecting another external

device, set **Game Mode** to **Off**.

- If you display the TV menu in **Game Mode**, the screen shakes slightly.

 **Game Mode** is not available when the input source is set to TV.

 Set **Game Mode** to **On** only after connecting a game console. If you turn **Game Mode** on before you have attached the game console, you may notice reduced picture quality.

 If **Game Mode** is set to **On**, **Picture**

Mode is set to Standard and Sound
Mode is set to Movie automatically.

- **BD Wise**

Provides the optimal picture quality for Samsung DVD, Blu-ray, and Home Theatre products which support **BD Wise**. When the **BD Wise** is set to **On**, the picture mode is automatically changed to the optimal resolution.

 Available when you connect

Samsung products that support **BD**

Wise through an HDMI cable to the TV.

- **Menu Transparency**

Adjust transparency of menu box.

- **Sound Feedback**

Your TV gives sound feedback when you use TV. **Sound Feedback** is enabled by default. Turn off **Sound Feedback** or adjust its volume.

- **Panel Lock**

Lock or unlock all the keys on the front

panel at once. When Panel Lock is on, none of the keys on the front panel operate.

- **Boot Logo**

Displays the Samsung logo when the TV is turned on.

- **Anti Flicker**

Remove flickering by adjusting camera power-line frequency.

- **Light Effect** **for LED TV**

You can turn the LED on/off on the

front of TV. Turn it off to save power or if the LED is too bright for you.

 Set the **Light Effect** to **Off** to reduce the power consumption.

 The colour of light may vary depending on the model.

Anynet+ (HDMI-CEC)

Menu → **System** → **Anynet+ (HDMI-CEC)**

Allows you to control all connected Samsung devices that support anynet+

with your Samsung TV's remote.

For details on set up options, refer to the “Anynet+ (HDMI-CEC)” instructions.

DivX® Video On Demand

Menu → System → DivX® Video On Demand

Shows the registration code authorized for the TV. If you connect to the DivX web site and register with 10-digit

registration code, you can download the VOD activation file. Once you play it using AllShare Play, the registration is completed.

 For more information on DivX(R) VOD, visit <http://vod.divx.com>.

Support Menu

e-Manual

Menu → Support → e-Manual

The e-Manual is built into your TV.

Open the e-Manual to learn how to use your TV are many features.

 For the detailed information about the e-Manual Screen, refer to “How to view the e-Manual” in the User’s Manual.

Self Diagnosis

Menu → Support → Self Diagnosis

- **Picture Test**

Use to check for picture problems.

Picture Test displays a high definition picture that you can examine for flaws or faults.

Yes: Select **Yes** if the test picture does not appear or there is noise or distortion in the test picture. There

may be a problem with the TV. Contact Samsung's Call Centre for assistance.

No: Select **No** if the test picture displays properly. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Sound Test**

Use the built-in melody to check for sound problems.

- ☞ If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu, and then try the speakers again.
- ☞ You will hear the melody during the test even if you have set **Speaker Select** to **External Speaker** or have muted the sound.

Yes: Select **Yes** if you can hear sound

from only one speaker or from neither speaker during the sound test. There may be a problem with the TV. Contact Samsung's Call Centre for assistance.

No: Select **No** if you can hear sound from the speakers. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Signal Information**

(Digital channels only)

The reception quality of over-the-air HD channels is either perfect or the channels are unavailable. Signal Information displays HD channel signal strength so you can adjust your antenna to increase signal strength and receive HD channels.

- **Reset**

Reset all setting to factory defaults except for your network settings.

To reset your TV to its default settings, follow these steps:

1. Go to the **Reset** menu. (**Support** → **Self Diagnosis** → **Reset**)
2. The PIN input screen appears. Enter the four digit security PIN using your remote.

 If you have not changed the PIN, enter the default PIN, 0-0-0-0.
You can change the PIN using the

Change PIN option. (System → Security → Change PIN)

3. When done, the PIN screen disappear. The message "All settings, except network settings, will return to factory defaults." appears.
4. Select Yes. All settings are reset. The TV will turn off and on again automatically. The Setup screen appears. For more information about Setup, see the paper user manual.

- **Troubleshooting**

If your TV seems to be having a problem, access the troubleshooting guide for a solution.

Software Update

Menu → **Support** → **Software Update**

The **Software Update** menu lets you upgrade your TV's software to the latest version.

Current Version: This is the software

version already installed in the TV.

Upgrading to the Latest Version you can upgrade in five ways:

- By USB
- Online
- By Channel
(Depending on the country)
- Alternative Software
- Standby Mode Upgrade

The five methods are explained in the

following pages.

 Be careful not to turn off the power until the upgrade is complete. The TV will turn off and on automatically after completing the software upgrade. When you upgrade software, all video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the

upgrade.

- By USB

To upgrade the By USB, follow these steps:

1. Visit www.samsung.com.
2. Click Support at the top of the page.
3. On the Support page, enter your model number in the Find Your Product field, and then press Enter or click Find Product.

4. Under Downloads on the left side, click Get downloads. The Download Center screen appears.
5. Click Firmware on the left side of the page.
6. On the Firmware tab, click the file icon on the right, and then click Save File on the pop-up that appears.
7. Extracts the exe archive to your computer. You should have a single folder with the same name as the

exe file.

8. Copy the folder to a USB flash drive.

9. Turn on the TV, and then insert the USB flash drive into the USB port of the TV.

10. In the TV's menu, go to **Support** → **Software Update**.

11. Select the **By USB**.



Please be careful not to remove the USB drive until the upgrade is complete.

- **Online**

The **Online** function lets you download the upgrade software directly from the Internet into your TV and then upgrade the software in one operation. To use **Online**, you must have configured your TV to connect to your network and the TV must be connected to the Internet. See the "Setting up the Wired or Wireless Network" instructions.

To upgrade using the Online, follow these steps:

1. Select the **Online**. The Connecting to Server message appears.
2. If there is a download available, the Download popup appears with a progress bar and the download starts.
3. When the download is complete, the Upgrade Query screen appears with three choices: **Upgrade Now**,

Upgrade Later, or Don't Upgrade.

- If you select **Upgrade Now**, the TV upgrades the software, turns off, and then turns on automatically.
- If you do not make a selection in one minute or select **Upgrade Later**, the TV stores the new upgrade software. You can upgrade the software later using the Alternative Software function.
- If you select **Don't Upgrade**, the

TV cancels the upgrade.

- **By Channel**

(Depending on the country)

Upgrade the software using the broadcasting signal.

 If the function is selected during the software transmission period, software will be automatically searched and downloaded.

 The time required to download the software is determined by the signal

status.

- **Alternative Software**

The **Alternative Software** option lets you upgrade using a file the TV downloaded earlier, but you decided not to install immediately, or a file downloaded by the TV in Standby Mode (See **Standby Mode Upgrade** in the next section).

To upgrade using **Alternative Software**,

follow these steps:

1. If upgrade software has been downloaded, you will see the software version number to the right of **Alternative Software**.
2. Select **Alternative Software**.
3. The TV displays a message asking if you want to upgrade. Select **Yes**. The TV begins the upgrade.
4. When the upgrade is complete, the TV turns off automatically, and then

turns on.

- **Standby Mode Upgrade**

You can set the **Standby Mode Upgrade** function so that the TV downloads new upgrade software when it is in Standby mode.

In Standby mode, the TV is off, but its Internet connection is active. This allows the TV to download upgrade software automatically, when you are not using it. Because the TV is turned

on internally, the screen may glow slightly. This phenomenon may continue for more than 1 hour until the software download is complete.

To set Standby Mode Upgrade, follow these steps:

1. Select the Standby Mode Upgrade.
2. Select Off, 1 hour later, 2 hours later, 0:00, 2:00, 12:00 or 14:00.
 - 1 hour later / 2 hours later / 0:00

/ 2:00 / 12:00 / 14:00: The TV will notify you with a pop up message when new upgrade software is available.

- On: If you select On, the TV will automatically download new upgrade software when it is in Standby mode with the power off.

 To use the Standby Mode Upgrade function, your TV must be connected to the Internet.

Contact Samsung

[Menu](#) → [Support](#) → [Contact Samsung](#)

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

Remote Management

[Menu](#) → [Support](#) → [Remote Management](#)

Remote Management lets our Call Center access and control your Samsung Product remotely to troubleshoot a problem. Use Remote Management only when you have a problem, and contact our Call Center first, before you activate Remote Management.

You can find the current number of our Call Center on the Support page

at www.samsung.com under Contact support.

Smart Hub

Menu → Support → Smart Hub

Smart Hub lets you connect to the Internet and enjoy a variety of Internet and multimedia contents. For more information on how to use the **Smart Hub**, see “Smart Hub” in the e-Manual.

Using the 3D function

3D

Menu → Picture → 3D

This exciting new feature enables you to view 3D content. To fully enjoy this feature, you must need a pair of Samsung 3D Active Glasses to view 3D video.

IMPORTANT HEALTH AND SAFETY

INFORMATION FOR 3D PICTURES.

Read and understand the following safety information before using the TV's 3D function.

Warning

- ♦ Some viewers may experience discomfort while viewing 3D TV such as dizziness, nausea and headaches. If you experience any such symptom, stop viewing 3D TV; remove the 3D Active Glasses and rest.
- ♦ Watching 3D images for an extended

period of time may cause eye strain.
If you feel eye strain, stop viewing
3D TV; remove your 3D Active
Glasses and rest.

- ♦ A responsible adult should frequently check on children who are using the 3D function. If there are any reports of tired eyes, headaches, dizziness, or nausea, have the child stop viewing 3D TV and rest.
- ♦ Do not use the 3D Active Glasses

for other purposes (such as general eyeglasses, sunglasses, protective goggles, etc.)

- ♦ Do not use the 3D function or 3D Active Glasses while walking or moving around. If you use the 3D function or 3D Active Glasses while walking or moving around you can injure yourself by running into objects, tripping, or falling.

- **3D Mode**

Select the 3D input format.

 If you want to experience the 3D effect fully, put the 3D Active Glasses on first, and then select the **3D Mode** from the list below that provides the best 3D viewing experience.

: Turns the 3D function off.

: Changes a 2D image to 3D.

: Displays two images next to each other.

: Displays one image above another.



for LED TV: Displays the images for the left and right eye alternately in rows.



for LED TV: Displays the images for the left and right eye alternately in columns.



for LED TV: Displays the images for the left and right eye alternately in pixels.



for LED TV: Displays the images for the left and right eye alternately in

frames.

 The **3D Mode** may differ depending on the input signal.

 Some file formats may not support



 The ,  and  are available when your PC is connected through an HDMI/DVI cable.

 The  displays the frequency (60Hz only) when the TV's resolution is 1920 x 1080.

- **3D Effect** for LED TV

Adjust 3D effects like perspective and depth for your preferred 3D viewing experience.

3D Effect: Adjust the perspective and depth settings. If you select **Auto**, the TV adjusts the perspective and depth settings automatically in accordance with the 3D input source. If you select **Manual**, you can adjust the perspective and depth to your liking.

3D Perspective: Adjusts the overall 3D perspective of the on-screen image.

Depth: Adjusts the overall depth.

- **3D Perspective** for PDP TV

Adjusts the overall 3D perspective of the on-screen image.

- **Depth** for PDP TV

Adjusts the overall depth.

- **L/R Change**

Swaps the left and right pictures.

- **3D → 2D**

Displays the image for the left eye only.

 This function is deactivated when the

3D Mode set to  or .

- **3D Auto View** **for LED TV**

If you set the **3D Auto View** to On, TV will switch the TV to 3D automatically. If you set the **3D Auto View** to **Message Notice**, a message screen appears when the TV receives a 3D signal. Then you can view a 3D image by selecting **3D** using your

remote.

 When you run some applications (such as **Smart Hub**, etc.), TV will not switch to 3D. To switch to 3D, you must exit the application first.

- **3D Optimisation** **for LED TV**

Automatically adjusts the picture overall to provide an optimal 3D effect.

Support resolution (16:9 only)

HDMI

3D Format	Resolution	Frequency (Hz)
 / 	1280 x 720p	50 / 59.94 / 60 Hz
	1920 x 1080i	50 / 59.94 / 60 Hz
	1920 x 1080p	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 Hz
Frame Packing	1280 x 720p	50 / 59.94 / 60 Hz
	1920 x 1080i	50 / 59.94 / 60 Hz
	1920 x 1080p	23.98 / 24 / 25 / 29.97 / 30 Hz

Component

Resolution	Frequency (Hz)
1280 x 720p	50 / 59.94 / 60 Hz
1920 x 1080i	50 / 59.94 / 60 Hz
1920 x 1080p	23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 Hz

DTV

Resolution	Frequency (Hz)
1280 x 720p	50 / 59.94 / 60 Hz
1920 x 1080i	50 / 59.94 / 60 Hz
1920 x 1080P	25 Hz

Videos / Photos (In AllShare Play)

 Refer to "Supported Subtitle and AllShare™ file formats" in the Other Information section.

Resolution supported for HDMI PC mode

for LED 7000 Series and above

The optimal resolution for 3D in the HDMI PC mode is 1920 x 1080.

If the input resolution is not 1920 x 1080, the TV may not display images properly in 3D display or full screen mode.

How to watch the 3D images

Some 3D modes may not be available depending on the format of the image

source.

To watch in 3D, you must wear 3D Active Glasses and turn the glasses on by pressing the power button.

1. Go to the 3D screen. (Picture → 3D)
2. Select the 3D Mode, The 3D Mode screen appears.
3. Set the 3D Mode of the image you want to view.

Read These Notes Before Using the 3D

Function...

- ♦ The **3D Mode** is set to **Off** automatically when you access **Smart Hub** function.
- ♦ The **3D Mode** is set to its memorised configuration value automatically when you change the input source.
- ♦ Some **Picture** functions are disabled in **3D** mode.
- ♦ **PIP** is not supported in **3D** mode.
- ♦ 3D Active Glasses from Samsung's

previous IR type 3D products and 3D glass from other manufacturers are not supported.

- ♦ When the TV is initially powered on, it may take some time until the 3D display is optimized.
- ♦ The 3D Active Glasses may not work properly if there is any other 3D product or electronic device turned on near the glasses or TV. If there is a problem, keep other electronic

devices as far away as possible from the 3D Active Glasses.

- ♦ Be sure to stay within the viewing angle and optimum TV viewing distance when watching 3D pictures. Otherwise, you may not be able to see 3D effects properly.
- ♦ The ideal 3D viewing distance is three times or more the height of the screen. For example, if your screen is two feet high, you should sit at

least six feet from the screen. We recommend sitting so that your eyes are level with the screen.

Smart Hub

[Menu](#) → [Support](#) → [Smart Hub](#)

Using Smart Hub, you can stream movies, videos, and music from the Internet, access various for pay or free-of-charge applications and view them on your TV.

Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

 You can also start this function by

pressing the  button on the remote control.

Notice

- ♦ Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.
- ♦ Application services may be provided in English only and the contents available may vary, depending on

your area.

- ♦ For more information about a Smart Hub service, visit the web site of the applicable service provider.
- ♦ The Smart Hub service downloads and processes data via the Internet so that you can enjoy the Internet contents on your TV screen. If the Internet connection is unstable, the service may be delayed or interrupted. Furthermore, the

player may turn off automatically in response to conditions on the Internet. If this occurs, check the Internet connection and try again.

- ♦ The services provided are subject to change by the Smart Hub service provider without notice.
- ♦ The Smart Hub service contents may differ depending on the player's firmware version.
- ♦ For pay DivX contents with copy

protection can only be played through composite, a component or HDMI cable.

- ♦ If the TV displays these icons at the bottom left of the screen, you can use corresponding functions:

: Voice Control (System → Voice and motion control → Voice Control)

: Motion control (System → Voice and motion control → Motion control)



: An USB or Bluetooth Mouse
(the device must connected to the
TV). (System → Device Manager →
Mouse settings)

To start Smart Hub for the first time, follow
these steps:

1. Press the  button.
2. The Smart Hub screen appears.
3. The General Disclaimer screen
appears. Select Agree.

 Screens can take a few seconds to appear.

4. The Samsung Service **Privacy policy** screen appears. Select **Agree**.

5. The Update Pop-up appears. Select **OK**.

6. The **Service Update** screen appears and installs a number of services and applications. When done, it closes. The **Smart Hub** screen displays the downloaded applications and

services. This may take some time.

 **Smart Hub** may close momentarily during the installation process.

 A number of screens may appear after installation. You can close them or let them close on their own.

7. To start an application, select an application using your remote.

Using the Keypads and Keyboards

A number of Smart Hub applications display a numeric keypad or a QWERTY keyboard so you can enter account names, passwords, and other data. In most applications, you can toggle between the numeric keypad and the QWERTY keyboard by selecting the  button.

Using the Numeric Keypad

When the keypad is displayed, you

can use your remote to enter letters in lower or upper case, numbers, punctuation, and symbols.

There are two ways to enter characters, in the ABC mode and in the XT9 mode.

Method 1: Using the keypad of ABC type.

Example: Inputting “105Chang”.

1. Select the **TTX/MIX** key three times using your remote to change the

input mode from lower case to numbers.

2. Select **1**, **0** and **5** in numerical order on your remote.
3. Select the **TTX/MIX** key three times using your remote to change the input mode from numbers to upper case.
4. Select **2** three times using your remote to input C.
5. Select the **TTX/MIX** key three times

using your remote to change the input mode from upper case to lower case.

6. Input the rest of “Chang” using your remote in the same way. When done, select **OK**.

Method 2: Using the Keypad of XT9 type.

To change to XT9 mode, follow these steps:

- A. With the Numerical keypad displayed,

open the **Tools** menu using your remote.

B. On the **Tools** menu, select **XT9 text input**.

C. Select **On**, and then select **OK**.

Example: Inputting “105Chang”.

1. Select the **TTX/MIX** key three times using your remote to change the input mode from lower case to numbers.

2. Select **1**, **0** and **5** in numerical order

on your remote.

3. Select the **TTX/MIX** key three times using your remote to change the input mode from numbers to capitalized case.
4. Select in sequence: **2, 4, 2, 6, 4**. A thin window appears at the top of the screen displaying a list of words you can enter Select “Chang” from the list by selecting **D** using your remote.

 If “Chang” is not displayed in the list, select + to create your own the dictionary. Add your own word to your dictionary.

Using the QWERTY Keypad

If you have a USB or Bluetooth keyboard attached to the TV, and the screen is displaying the QWERTY keyboard, you can use the attached keyboard just like a regular keyboard.

Type a character and the character appears on the screen.

If you don't have a USB or Bluetooth keyboard attached and the QWERTY keyboard is displayed, use your remote to highlight and then select letters, numbers, and symbols on the keyboard one at a time.

 Select the **Caps** or **Shift** button to display Capital letters. Select again to re-display lower case.

-  Select the 1 ★ button to display symbols and icons. Select again to re-display letters.
-  If XT9 text input is On, words will appear in a ribbon at the top of the page. Select the **D** button to select a word in the ribbon.

Using the coloured and function buttons with the QWERTY Keypad

- **A** Delete All

Delete all inputted character.

-  **Numeric** / **QWERTY**

Toggles the keypad mode between **Numeric** keypad mode and **QWERTY** mode.

 When the keypad is set to **QWERTY** mode, you can input characters using a USB or Bluetooth keyboard connected on the TV.

-  **Settings**

Displays the options menu.

Input Language: select an input language.

XT9 text input: Turns the XT9 word function on or off. Available in both Numeric Keypad and QWERTY mode when you use the remote or a mouse to select and enter characters.

-  **Enter**

Enter the selected character.

-  **Return**

Return to the previous menu.

-  **Prev Page**

Display the previous set of symbols/
icons.

 Available only when the keypad
screen is in symbol/icon mode (F).

-  **Next Page**

Display the next set of symbols/
icons.

 Available only when the keypad
screen is in symbol/icon mode (F).

Creating an Account

To establish your own, exclusive configuration of Smart Hub, create your own Samsung account.

-  You must use an e-mail address as an ID.
-  You can register up to 10 User Accounts.
-  You do not need an account to use [Smart Hub](#).

To create an account, follow these steps:

1. On the Smart Hub screen, select **A** using your remote. The **Login** screen appears.

 When using the Smart Touch Control, press the **Return** button to close the button screen and use the button.

2. Select **Create Account** using your

remote. The **Create Account** screen appears.

3. Select **Samsung Account**. An entry screen and keypad appear.
4. Use the keypad to enter your e-mail address. This will serve as your ID.

 If you have a Bluetooth or USB keyboard attached to the TV, use the keyboard to enter the e-mail address. Then, in Steps 6 through 10, use the keyboard to enter the required

password. Note that after you type in the e-mail address and password, you will need to use your remote to continue.

5. When done, select **OK**. The **Login** screen reappears.

6. Select **Password**. The **Password** screen and a keypad appear.

7. Use the keypad to enter a password. The password can be any combination of letters, numbers, and

symbols.

 Select **A** using your remote to display or hide the password as you enter it.

8. When done, select **OK**.

9. Select **Confirm Password**. The **Password** screen and a keypad re-appear.

10. Repeat Steps 7 and 8.

11. When done, select **Create Account**.
The Confirmation window appears.

12. Select **OK**. The Continue to register service ID window appears.

13. Select **OK**.

 If you don't have existing provider accounts or do not want to register existing accounts at this time, select **Cancel**. You can also let the window close on its own in about a minute.

14. The **Link to other accounts** window appears.

 If you have existing accounts

with any of the listed providers, you can associate the provider account and the provider account password with your **Samsung Account**. Registration makes it easier to access the provider's website. For registration instructions, go to Step 2 in **Account Manager** under **Settings** in the "Configuring Smart Hub with Settings" section of this manual.

Customizing the Home Screen

- **A** Login / Logout

To log in to your Samsung account, follow these steps:

1. With the Smart Hub main screen displayed on your TV, select **A** using your remote. The Login screen appears.
2. Select the  next to the Samsung Account entry filed. A drop down list

appears.

 If you want to input your **Samsung Account** name manually, select the **Samsung Account** entry field. A keypad screen appears. Input your **Samsung Account** manually. When done, go to Step 4.

 If you use the **Face recognition** function to have the TV memorize your face, you can log in to your Samsung account using the

Face Recognition Mode without inputting your account name. For more detailed information about **Face recognition**, see the "SMART Interaction" section in the e-Manual.

3. Select your ID from the list that appears. The **Login** screen reappears.
4. Select **Password**. The **Password** window and a keypad appear.

5. Enter your password using your remote. When done, select **OK**.

 If you want **Smart Hub** to enter your password automatically, select **Remember my password**, after you have entered your password. A  mark appears. **Smart Hub** will now enter your password automatically when you select or enter your ID.

 If you want to log in to **Smart Hub** automatically when **Smart Hub**

function starts, select **Sign me in automatically**. A ✓ mark appears.

📝 If you forget your Samsung account password, you can reset it. Select **B** using your remote. A popup message appears. Select **OK**. Smart Hub will send a guide to your e-mail address that explains how to reset your password.

- **B Wallpaper**

You can change the background image

on the Smart Hub home screen.

- **Account Manager**

Lets you register your service provider accounts, delete or deactivate your Samsung account, and register or reset face recognition. For more information about [Account Manager](#), see "Configuring Smart Hub with the Settings Menu" in this section.

 Available only when you have logged in to [Smart Hub](#).

Using the Tools menu with Smart Hub



Depending on the icons and folders displayed on the **Smart Hub** screen, some of the functions listed below may not appear.

- **Login / Logout**

Log in or log out of your Samsung account.

- **Wallpaper**

You can change the background image

on the Smart Hub home screen.

- **Move**

The **Move** function lets you change the screen position of an application or a folder.

To use the Move function, follow these steps:

1. Select an application icon or a folder, and then open the **Tools** menu using your remote.

2. Select the **Move**. A position change screen appears.

3. Move the icon using your remote. When the icon is in the position of your choice, select the icon. The application icon moves to its new location.

- **Move to Folder**

The **Move to Folder** function lets you move an application to a folder.

To use the Move to Folder function, follow these steps:

1. Select an application, and then open the **Tools** menu using your remote.
2. Select the **Move to Folder**. The **Move to Folder** window opens.
3. Select a folder using your remote. A move finished message appears. Select **OK**. The message window closes. The application has been moved to the folder.

 If you select an application in a folder, you can use the **Move to Folder** to move the application to the **Smart Hub** screen.

To access an application in a Folder

1. On the **Smart Hub** screen, select a folder. The folder opens.
2. Select an application you want to execute. The application service starts.

- Delete

The Delete function lets you delete applications from Smart Hub.

To use the Delete function, follow these steps:

1. Select an application, and then open the Tools menu using your remote.
2. Select the Delete. The message Do you want to delete the selected item(s)? appears.

3. Select **OK**. The application is deleted.

- **New Folder**

The **New Folder** function lets you create and name new folders. You can move applications into the folders you have created.

To use the **New Folder** function, follow these steps:

1. Open the **Tools** menu using your remote.

2. Select the **New Folder** in the menu.

The **New Folder** pop-up and a keyboard screen appear.

3. Using the keyboard and your remote, enter a name for the folder.

4. When done, select **OK** at the bottom of the screen. The **New Folder** screen closes and the **New Folder** appears on the **Smart Hub** screen.

- **Rename Folder**

The **Rename Folder** function lets you

rename folders.

To use the Rename Folder function, follow these steps:

1. Select a folder, and then open the **Tools** menu using your remote.
2. Select the **Rename Folder**. The **Rename Folder** window and a keyboard screen appear.
3. Enter a new name using your remote or edit the old name.

4. When done, select **OK**. The **Rename Folder** window closes and the new or revised name appears below the folder.

 Depending on the application, this function may not be supported.

- **Lock**

The **Lock** function lets you lock some applications in **Smart Hub** so they cannot be opened without entering the password.

 Depending on the application, this function may not be supported.

To use the Lock function, follow these steps:

1. Select an application, and then open the **Tools** menu using your remote.
2. Select **Lock**. The Security window appears.
3. Enter your security PIN using the remote. If you have not created a

PIN, enter “0-0-0-0”.

4. A confirmation message screen appears. Select **OK**. The message screen closes and a lock symbol appears to left of the application.

- **Unlock**

 Depending on the application, this function may not be supported.

To use the Unlock function, follow these steps:

1. Select a locked application, and then open the **Tools** menu using your remote.
2. Select **Unlock**. The Security window appears.
3. Enter your security PIN using the remote. If you have not created a PIN, enter “0-0-0-0”.
4. A confirmation message screen appears. Select **OK**. The message screen closes and the lock symbol to

left of the application disappears.

- **Information**

Depending on application, you can view the detailed information about the selected application.

 You can also lock or unlock the application on the **Detailed Information** screen.

Configuring Smart Hub with the Settings Menu

The **Settings** menu gives you access to account management, account reset, and account properties functions. To use these three functions, you must be logged into your Samsung Smart Hub account.

To access the Settings menu, and then select a menu item, follow these steps:

1. Open the **Tools** menu using your remote.

2. Select **Settings**. The **Settings** window appears.

3. Select a menu item using your remote.

- **Account Manager**

The **Account Manager** menu contains functions that let you register your service provider accounts, and delete or deactivate your Samsung account.

Link to other accounts: If you have existing accounts with any of the

providers listed by the [Link to other accounts](#) function, you can associate the provider account and the provider account password with your Samsung account. If you associate the account, you will be able to log onto the account through Smart Hub easily, without entering your account name or password.

 Before register your site account, corresponding application should be

installed in the [Smart Hub](#).

To use the [Link to other accounts](#) function, follow these steps:

1. In the [Account Manager](#) menu, select the [Link to other accounts](#). The [Link to other accounts](#) window appears.
2. Select an application you want to associate with your Samsung account.
3. In the pop-up that appears, select

Register.

4. In the Link to other accounts entry screen, enter your site ID and password using your remote. When done, select **OK**.

 This is the ID and password you normally use to access your account on this application.

5. If you have entered the ID and password correctly, the **Registered successfully.** message appears.

6. If want to add another service application, and then repeat Steps 2 through 4 to associate another service application.
7. When done, select **OK**.

Remove from TV account list: Cancels all the currently registered Service Accounts that appear on the **Link to other accounts** screen.

Deactivate account: Deactivates your

Samsung Account and deletes it and all your account settings entirely from the **Smart Hub**.

Face recognition: Registers your face in your Samsung account. For more information about Face registration, see "**Face recognition**" in the SMART Interaction section.

Transfer recognised face: Delete your face registration from your **Samsung Account**.

- **Service Manager**

Auto Ticker: You can set **Auto Ticker** to come on when the TV powers.

 The Ticker application provides useful News, Weather, and Stock Market information. Before you can set the **Auto Ticker** on, you must download the Ticker application into **Smart Hub**.

 Depending on your country, the Ticker application may have a

different service or not be supported.

Push Notification Settings: When on, Push Notification displays a notification message when an event takes place in an application installed on **Smart Hub**. The TV will display the notification message and allow you to view details of the event even while you are viewing TV.

- **Reset**

The **Reset** function initializes all

downloaded applications, erases all user accounts and settings from the TV, and resets all **Smart Hub** settings to the factory default settings. It then restarts **Smart Hub** as if it were starting for the first time.

Your account, however, remains on the Smart Hub server. To log into your account, enter your ID and password on the **Login** screen.

To use the Reset function, follow these steps:

1. In the **Settings** menu, select **Reset**.

The **Reset** screen appears.

2. Enter security password using your remote.

 The default PIN set is “0-0-0-0.”

 **The Smart Touch Control is not available.**

If you forget the PIN code, press the remote control buttons in the following sequence in Standby

mode, which resets the PIN to “0-0-0”: **MUTE**  → **8** → **2** → **4** →  (Power on).

3. After a few moments, **Smart Hub** automatically resets. The screen may go black, and then **Smart Hub** reappears. In a few moments, it starts the re-initialization procedure.
4. To complete the re-initialization, go to Step 2 in "To start **Smart Hub** for the first time, follow these steps:"

section of this manual.

- [About Smart Hub](#)

The [About Smart Hub](#) menu contains functions that display information about Smart Hub.

[More](#): Lists information about Smart Hub including version number, memory usage, and the unique product ID.

[Terms of Service Agreement](#): Display the [Terms of Service Agreement](#).

Using Samsung Apps

Samsung Apps

 → Samsung Apps

Samsung Apps is a store from which you can download applications to use on Samsung TV/AV equipment.

You can enjoy a variety of contents such as videos, music, photos, games, useful information etc. using the downloaded applications.

New applications are added regularly.

Using the coloured and function buttons with Samsung Apps

- **A** Login / Logout

Log in to or log out of your Samsung account.

- **B** Filter by Price

To toggle the view between All, Paid and Free.

- **C** Sort

To sort the applications by
Recommended, **Name**, **Date** or
Downloaded.

 You can sort all categories except
Most Popular.

- **D View Mode**

Each time you select **D** using your
remote, the **View Mode** toggles
between basic mode and thumbnail
mode.

- **Previous**

Move to previous page.

-  **Next**

Move to next page.

-  **Tools**

Displays the option menu.

-  **Return**

Moves to previous menu.

Using Samsung Apps by category

The following categories are available:

- **What's New?**

User can easily find newly (latest) registered application.

- **Most Popular**

Displays the most popular applications for users.

- **Video**

Includes apps that provide video media such as movies, TV shows, and short length videos.

- **Game**

Includes various game apps such as

sudoku and chess.

- **Sports**

Includes apps that provide sports content such as game results, images, and short length video.

- **Lifestyle**

Includes apps that provide lifestyle media services such as music, personal photo management tools, and social networking such as Facebook and Twitter.

- **Information**

Includes apps that provide information content such as news, financial information, stock quotes, weather, etc.

- **Education**

Includes apps that provide education content such as story books, dictionary, VOD (Video on Demand) for kids etc.

- **My Apps**

My Apps provides information about your available App cash coupon and

information about the apps you have already purchased or installed on your TV.

 You can purchase App cash that you can use to buy applications through tv.samsungapps.com.

 **Downloaded apps** displays the list of free apps that are installed on the TV.

- **Help**

If you have questions about **Samsung**

Apps, check this section first.

To search for an application in Samsung Apps, follow these steps:

1. On the **Samsung Apps** screen, select **Search Samsung Apps**. The **Search** window and keyboard appears.
2. Enter a keyword using your remote. The keyword should be part of the name of an application. For example, enter f-a-c-e to search for Facebook.

3. When done, select **OK** at the bottom of the keyboard.

4. Wait until the search result screen displays. After Samsung Apps displays the results, you can select an application you want in the search result screen.

 You can find a keyword in the search history if you have searched using that keyword before.

 If you have a keyboard and/or a

mouse connected to your TV, you can use the mouse to select the Search Samsung Apps field and the keyboard to type in the keyword.

Search



→ Search

(May not be available, depending on your country.)

Easily search for and access content from diverse sources (e.g. applications, [Your Video](#), [AllShare Play](#))

1. On the [Smart Hub](#), select [Search](#) at the top of the screen or press the Search button on your remote.
2. If you want to input a search term

directly, **Enter search keyword**, entry field. A keypad screen appears. Enter the search term using your remote.

 If you want to search by category, select a category below the field using your remote.

Using the Search function by category

- **Your Video**

Personalize your movie-watching with a customized video on demand (VOD)

recommendation service.

- **Most searched**

You can search by selecting a key word in the key word list. The key word list displays words you frequently use for searches.

- **Top application**

You can search applications and services in the application list. The application list displays apps that users download frequently.

- Search history

You can find the keyword in the search history list if you searched a keyword before.

Using the coloured and function buttons with Search

- Refresh

Refresh the Search function.

- Tools

You can set general parameters for the

Search function or delete the search history.

-  **Return**

Return to the previous menu.

Using the Tools menu with Search

- **General Settings**

Keyword recommendation: Turns the Keyword Recommendation function on or off.

Search area: Sets a search scope. The

default is allowed all application.

To customize a search area, follow these steps:

1. On the **Search** screen, open the **Tools** menu using your remote.
2. Select General Settings.
3. Select an application in the **Search area**. A ✓ mark disappears from the check box.

 When you remove the ✓ mark,

you remove that application from the search scope. Only checked applications are included.

4. When done, select **RETURN**.

- **Search history**

Lets you delete previously used keywords from the search history list. Also, If you select **Delete All**, you can delete all your search history.

To delete a search history keyword, follow these steps:

1. On the **Search** screen, open the **Tools** menu using your remote.
2. Select **Search history**.
3. Select a keyword in the Keyword list.
4. Press  on the standard remote or tap the touch pad on the Smart Touch Control. The keyword disappears from the list.

Your Video



→ Your Video

(May not be available, depending on your country.)

Using this service from Smart Hub, you can get video recommendation, search for movies from multiple providers, and stream or purchase movies. To stream or purchase movies, you must have the vendors app installed in Smart Hub.

Depending on the vendor, you may also

need a vendor account.

Using the Your Video Search Tab

1. On the **Smart Hub** screen, select **Your Video**.
2. If this is the first time you have accessed **Your Video**, the Privacy Notice appears. Read the notice, and then select **Agree**.
3. When the **Your Video** screen appears, it displays a list of recommended

movies with Recommended at the top of the screen highlighted. Move the highlight from the top of the screen down to the first movie, and then scroll the movies to the right to view all the movies in the list.

4. To see additional lists of movies, move the highlight back to the top of the screen. You can select - in addition to Recommended - [New releases](#), [Top 20 films](#), [Top 20 TV](#)

shows, and From friends.

5. To select a movie, highlight it, and then press the  button on the standard remote or press the touch pad on the Smart Touch Control.

The movie's Data screen appears.

On this screen you can view Basic Information, Director/Cast, Photos, Awards, and Related Movies.

6. To watch the movie, select [Watch](#). A list of online vendors that have the

movie available for rent or purchase appears. Renting usually means you can stream the movie for a certain number of hours or days.

 To go to a vendor's web site, you must have that vendor's app installed in **Smart Hub**. To install apps, access Samsung Apps on the main **Smart Hub** screen.

7. You can search for a particular movie. To search, select  with your

remote. The Search Entry screen and a keyboard appear.

8. Enter the name of the movie into the Search field. As you enter characters, the Search function will display suggestions below. You can either continue entering characters, or, if your movie appears, move the highlight down and select it. The movie's Data screen appears (See Steps 5 and 6).



If you are entering using a keyboard, you can either press Enter or you can move the highlight down using the down arrow key.

Using the Function and Coloured Buttons on the Search Tab

- **A** Login / Logout

To login to your Smart Hub account or log out.

- **Search**

To search for movies or videos (Steps 7 and 8).

- **My Page**

Displays your My Video Bookmarks, Likes/Shares (if you have a Facebook or Twitter account registered in Smart Hub), and lets you establish certain Preferences.

- **Return**

Return to the previous menu.

Using Function and Coloured Buttons on a Movie's Data Page

- **A** Login / Logout

To log in to your Smart Hub account or log out.

- **B** Bookmark / Unbookmark

To bookmark a movie or video or to remove the bookmark. When you bookmark, Bookmark appears on the left side of the screen. Bookmarked

movies or videos are listed on My Page.

- **Search**

To search for movies or videos (Steps 7 and 8).

- **Home**

To go to the **My Video** Home screen.

- **My Page**

Displays your My Video Bookmarks, Likes/Shares (if you have a Facebook or Twitter account registered in

Smart Hub), and lets you establish certain Preferences.

- ↶ **Return**

Return to the previous page or menu.

Using the Your Video Genre Tab

When you start Your Video, the Your Video screen displays the Search tab. You can also display the Genres tab which sorts movies and videos by genre.

1. On the Your Video Search tab, move the highlight to the bottom of the screen, and then select Genres. The Genres tab appears.
2. On the Genres tab, select either **Movies** or **TV show** on the left side of the screen
3. On the right side of the screen, select the genre (Action/adventure, Animated, etc.). Your Video displays the Genre Movie or TV Show List

screen with the movies or TV shows in the genre you selected.

4. Highlight a movie or TV show and then select it. The Data screen for that movie or TV show appears.

Using the Function and Coloured Buttons on a Genre Movie or TV Show List Screen

-  [Login](#) / [Logout](#)

To log in to your Smart Hub account

or log out.

- **B** Genres

To re-display the Genres tab.

- **C** Search

To search for movies or videos.

- **D** Sort

To sort movies or videos by Ratings, Year, or Title.

-  My Page

Displays your My Video Bookmarks, Likes/Shares (if you have a Facebook

or Twitter account registered in Smart Hub), and lets you establish certain Preferences.

- ↶ **Return**

Return to the previous page or menu.

Using My Page

My Page displays your My Video Bookmarks, **Likes/Shares** (if you have a Facebook or Twitter account registered in Smart Hub), and lets you establish

certain **Preferences**. When the  **My Page** icon is displayed at the bottom of a screen, select or press  **Tools**. **My Page** appears displaying your bookmarked movies and videos. Select a bookmarked movie or video, access your **Likes/Shares**, or view or change your **Preferences**.

Using the Function and Coloured Buttons on the My Video Screen

- **A** Login / Logout

To log in to your Smart Hub account or log out.

- **C** Search

To search for movies or videos.

- **D** Home

To go to the My Video Home screen.

- ↶ Return

Return to the previous page or menu.

Family Story



→ Family Story

Family Story feature allows you to share photos, messages, and events with your family.

- **Create Group**

If you are starting **Family Story** for the first time, you can create a family group and invite members to join.

- **Invite Members**

After creating a group, you can invite

the family members who you want to share your family's photos and events with to join.

- [Join Group](#)

If you were invited to join a family group by a family member, you can select [Join Group](#) to enjoy [Family Story](#) services.



You must be logged into your Smart Hub account to create a family group, access your group, or use Family Story.

To create a family group, follow these steps:

1. On the **Smart Hub** screen, select **Family Story**. The **Family Story** screen appears.
2. Select **Create Group**. The **Create and invite** pop-up appears.
3. Select **OK**. The **Family Story** agreement appears. Read the agreement, and then select **Agree**.

 It is required to agree with the terms prior to using **Family Story**.

4. Enter a **Group Name**, **Your Name**, and **Your Phone Number** without dashes using your remote.

 If you want to add a group image, select an image box. (An external device containing photos must be connected to your TV via USB.)

 * Fields marked with an asterisk are required.

5. When done, select **Done**. The group creation is completed.

 If you want to invite members to your group, select **Invite Members**. If you want to go your Family Story, select **Go to Family Story**. If you selected **Invite Members**, go to Step 4 in the procedure below.

To invite members to your Family Story group, follow these steps:

1. From the starting menu in **Family Story**, open the **Tools** menu using your remote, and then select **Group Members**. The **Group Members** screen appears.
2. Select **Invite Members**. The **Invite** pop-up appears.
3. Select **OK**. The **Invite Members** screen appears.
4. Select **Select to enter a message..**. The keypad screen appears.

5. Enter member's name using your remote. When finished, select **OK** on the bottom of the keyboard, and then select **Done**.
6. Select **Phone number or Samsung account ID**. The keypad screen reappears.
7. Enter the prospective member's phone number or Samsung account ID using your remote. When finished, select **OK** on the bottom of the

keyboard, and then select **Done**.



If you want to add more prospective members, select **Add Member**, and repeat Steps 4 through 7.

8. When finished adding members, select **Done**. The **Member Invitation Completed** screen appears.

9. If invited by phone number, 4-digit invite code will be generated and the code needs to be shared with

the member. If invited by Samsung account, the member will be notified about the invitation via e-mail. Select **OK** to finish.

To join a group using the received invite code, follow these steps:

1. Start **Family Story** and accept the terms.
2. You will see a pop-up message asking about invitation type. If

you were invited by phone number, please select **Invite Code**. If you were invited by Samsung account, please select **Samsung Account**.

3. If joining by **Samsung Account**, a list of invitations from your family groups will be displayed. Select **Accept** to join. You can select **Deny** if you don't want to join the inviting group.

4. If joining by **Invite Code**, first enter

your phone number using your remote. When done, select **Done**.

Then you will see a list of invitations from your family groups. Select **Accept** to join. You can select **Deny** if you don't want to join the inviting group. Enter the 4-digit invite code shared by your family member, and then select **Deny** to finish.

5. Select **OK**. Joining your family group has been completed.

Creating an Album

You can upload pictures from a USB device and create a picture album which other group members can view and add to.

To create a picture album, follow these steps:

1. Attach a USB device containing the pictures you want to upload to the

picture album to your TV.

2. Log into your Smart Hub account, and then start Family Story.
3. Highlight and select the "create album" icon on the left side of the Family Story screen or select **B** Create using your remote. The Create screen appears.
4. Highlight and select Add on the Album tab. The File Browser screen appears.

5. Highlight and select the USB device.

The device opens, displaying either folders or picture files.

6. If picture files are displayed,

highlight and select each file you want to upload. A check appears on each file.

7. If folders are displayed, highlight and

select the folder that contains the pictures you want to upload. Then, select each file you want to upload.

A check appears on each file.

 You can highlight and select the Select All button on the right side if you want to select all displayed pictures.

8. When finished, highlight and select the OK button on the right side. The Create screen re-appears displaying some or all the photos you want to upload.

 To delete a photo from the

upload queue, select  **Tools**.

In the **Tools** menu, select **Delete Photos**. Either highlight and select individual photos or select **Delete All**. When done, select the **Delete** button on the bottom of the page. A pop-up appears asking whether you want to delete the photos. Select **Yes**.

9. Highlight and select the Done button on the bottom of the screen. The

photos are uploaded, and then the **Story of the Day** screen appears, displaying the photos.

10. Select ➤ **Return**. The Cover Story (Main Family Story) screen appears displaying the photos.

 The Cover Story screen runs a continuous slide show of photos you uploaded. It also displays some of the photos on a "shelf" below the slide show area.

Deleting a Picture

To delete a picture, follow these steps:

1. On the Cover Story screen, highlight and select the strip of photos on the bottom left. The Story of the Day screen appears.
2. Highlight and select the photo you want to delete.
3. Select  **Tools**.

4. In the **Tools** menu, select **Delete**. A message appears asking if you want to delete the photo.
5. Select **OK**. The picture is deleted.

Editing a Picture

The Edit function lets you add a memo to a picture or add the picture to an event.

To edit a picture, follow these steps:

1. On the Cover Story screen, highlight and select the strip of photos on the bottom left. The Story of the Day screen appears.
2. Highlight and select the photo you want to edit.
3. Select  **Tools**.
4. In the **Tools** menu, select **Edit**. The **Edit** screen appears.
5. To add a memo, highlight and select the "enter Memo" field. The Enter

Memo screen and keyboard appear.

6. To add the picture to an event, highlight and select **Find event**.

The **Events list** screen appears. Use the left and right arrow buttons to change the month. Use the up and down arrow buttons to select an event. Press Enter when done.

7. After you have added a memo or added the photo to an event, highlight and select **Done** on the

bottom of the screen.

Creating a Memo

You can create a memo that all group members can see.

To create a memo, follow these steps:

1. Log into your Smart Hub account, and then start Family Story.
2. Highlight and select the "create memo" display on the right side of

the Family Story screen or select **B**
Create using your remote. The Create
screen appears.

3. On the **Memo** tab, highlight and
select the "enter Memo" area. The
Enter memo screen and keyboard
appear.
4. Use your remote to highlight and
select letters. If you have a USB
or Bluetooth keyboard attached to
the TV, use the Keyboard to type in

letters.

5. When done, select **OK** on the on screen keyboard, press  on the standard remote, or press the touch pad on the Touch Control. If you are using a physical keyboard, press the Enter key on the key board. The Create screen re-appears displaying the memo.

 To edit the memo, highlight and select the "enter Memo" area

again. The Enter memo screen and key board re-appear.

6. Highlight and select the **Done** button on the bottom of the screen. The Story of the Day screen appears displaying the memo.

7. Select ↩ **Return** to go back to the main Family Story screen.

Deleting a Memo

To delete a memo, follow these steps:

1. On the Cover Story screen, highlight and select the memos on the right side of the screen. The Story of the Day screen appears.
2. Highlight and select the memo you want to delete.
3. Select  **Tools**.
4. In the **Tools** menu, select **Delete**. A message appears asking if you want to delete the memo.

5. Select **OK**. The memo is deleted.

Editing a Memo

To edit a memo, follow these steps:

1. On the Cover Story screen, highlight and select the memos on the right side of the screen. The Story of the Day screen appears.
2. Highlight and select the memo you want to edit.

3. Select  **Tools**.

4. In the **Tools** menu, select **Edit**. The **Edit** screen appears.

6. Highlight and select the Edit field. The Memo screen and keyboard appears. Edit the memo, and then press Enter when done.

7. The Edit screen re-appears. Highlight and select **Done** on the bottom of the screen.

Creating an Event

You can create a record of an event, such as a birthday party or a wedding, with pictures, that all group members can see. You can also create a record for a future event.

To create an event, follow these steps:

1. Attach a USB device containing the pictures of the event that you want to upload to your Family Story.

2. Log into your **Smart Hub** account, and then start **Family Story**.
3. Highlight and select the "create event" display on the right side of the Family Story screen or select **B** Create using your remote. The Create screen appears.
4. On the **Event** tab, highlight and select the **Event title** field. The Event Title screen and keyboard appear.
5. Use your remote to highlight and

select letters. If you have a USB or Bluetooth keyboard attached to the TV, use the keyboard to type in letters.

6. When done, select **OK** on the on screen keyboard, press  on the standard remote, or press the touch pad on the Touch Control. If you are using a physical keyboard, press ENTER on the keyboard.

7. Highlight and select **Done** on the

Event Title screen with your remote.
The Event Tab reappears.

8. User your remote to highlight and select the "**Enter Description**" field.
The Enter Description screen and keyboard appear.

9. Enter a description of the event the same way you entered the Event Title in Step 5. When done, close the Enter Description screen the same way you closed the Event Title

screen in Steps 6 and 7.

10. Highlight and select the From field.

The **Time Settings** screen appears.

Use the up and down arrow buttons on your remote to change the values in each field. Use the left and right arrow buttons to move from field to field. Press Enter when done.

11. Highlight and select the To field. The

Time Setting screen appears. Set the

To time the same way you set the

From time in Step 10.

12. To define the **Event Type**, highlight and select the **Change** button. The Event Type list appears.
13. Use the up and down arrow buttons on your remote to select an event type. When done, press  or press the touch pad on the Touch Control. The Event Tab re-appears.
14. To add photos, highlight and select the Add button. The File Browser

appears.

15. Highlight and select the USB device.

The device opens, displaying either folders or picture files.

16. If picture files are displayed,

highlight and select each file you want to upload. A check appears on each file.

17. If folders are displayed, highlight and

select the folder that contains the pictures you want to upload. Then,

select each file you want to upload.
A check appears on each file.

 You can highlight and select the **Select All** button on the right side if you want to select all displayed pictures.

18. When finished, highlight and select the **OK** button on the right side. The Event Tab re-appears displaying some or all the photos you want to upload.

 To delete a photo from the upload queue, select  **Tools**. In the **Tools** menu, select **Delete Photos**. Either highlight and select individual photos or select **Delete All**. When done, select the **Delete** button on the bottom of the page. A pop-up appears asking whether you want to delete the photos. Select Yes.

19. When done entering all information

and selecting all photos, highlight and select the **Done** button at the bottom of the Event Tab. Family Story uploads the photos you selected and then displays the Story of the Day screen.

20. Select ↶ **Return** to go back to the main Family Story screen.

Deleting an Event

To delete an event, follow these steps:

1. On the Cover Story screen, highlight and select the events on the bottom right side of the screen. The Story of the Day screen appears.
2. Highlight and select the event you want to delete.
3. Select  **Tools**.
4. In the **Tools** menu, select **Delete**. A message appears asking if you want to delete the event.

5. Select **OK**. The event is deleted.

Editing an Event

To edit an event, follow these steps:

1. On the Cover Story screen, highlight and select the events on the bottom right side of the screen. The Story of the Day screen appears.
2. Highlight and select the event you want to edit.

3. Select  **Tools**.

4. In the **Tools** menu, select **Edit**. The **Edit** screen appears.

5. Edit the elements in the event in the same fashion you first entered them.

6. To remove a photo, highlight the photo, and then Select  **Tools**.

7. In the **Tools** menu, select **Disconnect photos**.

8. Highlight and select individual photos or highlight and select **Select All**.

9. Highlight and select **Delete**. A message appears asking if you want to delete the photos. Select **Yes**.

10. When finished editing, highlight and select **Done** at the bottom of the page.

Functions on the Cover Story (Main) Screen

On the **Cover Story** screen, you can launch a slide show, display individual pictures, view memos, and view events.

Launching a Slide Show

1. On the **Cover Story** screen, highlight and select the large Slide Show area. This is the portion of the screen that displays constantly changing pictures. The slide show starts. The slide show controls are displayed momentarily, then disappear.
2. To stop or start the slide show and to re-display the controls, press  on your remote.

3. To view individual pictures, stop the slide show, and then press the left or right arrow button on your remote.
4. To change the speed of the slide show, select the ◀ or ▶ button.
5. To end the slide show, select ↶
Return.

Viewing Individual Pictures

1. On the Cover Story screen, highlight and select the strip of photos on

the bottom left. The **Story of the Day** screen appears displaying the individual photos.

2. Highlight and select a photo. The individual photo is displayed.
 - To add a comment about the photo, highlight and select the **Add Comment** button or select **B**. The **Comment** screen and keyboard appear.
 - To watch a slide show that includes

the picture, highlight and select the picture. The slide show begins.

- To watch a slide show together with another member of your group, select **C**. This function lets you and another member of your group watch the same slide show on your own TVs, even if you are thousands of miles apart.

Viewing Individual Memos

1. On the **Cover Story** screen, highlight and select the memos displayed on the right side. The **Story of the Day** screen appears displaying the individual memos.
2. Highlight and select a memo. The individual memo is displayed.
 - To add a comment about the memo, highlight and select the **Add Comment** button or select **B**.
The **Comment** screen and keyboard

appear.

Viewing Individual Events

1. On the **Cover Story** screen, highlight and select the events displayed on the right side. The **Story of the Day** screen appears displaying the individual events.
2. Highlight and select an event. The individual event is displayed.
 - To add a comment about the

event, highlight and select the **Add Comment** button or select **B**. The **Add Comment** screen and keyboard appear.

- To watch a slide show of the pictures saved in the event, highlight and select the pictures at the bottom left of the screen. The slide show begins.

The Tools Menu Functions

The **Tools** Menu appears on most of

the Family Story screens. This section provides a run down of all the **Tools** Menu functions by screen.

Tools Menu Functions on the Cover Story Screen

Group Members: Lists the current group members and the current prospective members with invitations.

My groups: Lists the groups you are a member of. Also lets you access your groups.

Settings: Lets you edit your profile information and set whether your group will allow new content, new members, new invitations, and issue event reminders.

Logout: Logs you out of **Family Story** and your Smart Hub account. Returns you to the **Smart Hub** screen.

Create: Takes you to the **Create** screen where you can create a photo album, memo, or event record.

Updates: Lets you know if there is an update for the Family Story application, and lets you download and install it.

Tools Menu Functions on the Story of the Day Screen

Filter: Lets you select what to view on the **Story of the Day** screen by category: **All, Album, Memo, Event.**

View by Member: Lets you view entries (Albums, Memos, Events) by member.

The rest of the functions - **Group**

Members, My groups, Settings, Logout, and Updates - are the same functions as the Cover Story screen functions.

Other Functions on the Story of the Day Screen

The Story of the Day screen also has a date filter function on the bottom of the screen.

Date created / Date Uploaded: You can sort the items on the Story of

the Day screen by **Date created** or **Date Uploaded** by highlighting and then selecting the **Date created/Date Uploaded** slider button.

You can also quickly move to the month certain items occurred or were uploaded by selecting a highlighted number on the monthly number bar.

You can also select a year, and then a month. When you select a month, **Family Story** displays the items that were

uploaded or occurred in that month.

Fitness

 → Fitness

The **Fitness** application provided by Smart Hub lets you track and manage a fitness and exercise programme you create.

 To use **Fitness**, you should be logged in the Smart Hub.

Read these notes before exercising...

 Please warm-up or stretch before

exercising.

- ☑ Stop exercising immediately if you feel pain, or dizzy, exhausted, or short of breath.

Create Your Profile

When you start **Fitness** for the first time, you should create your own profile. On the **Fitness** screen, select **Create your profile**. A pop-up message appears. Select **Create your profile**. The

Personal Trainer/Create Profile screen appears.

1. To go to next step, press the right arrow button on your standard remote or sweep a finger to the right on the Smart Touch Control. The Name pop-up appears.

2. Select **First Name**. The Username screen and keyboard appear. Enter your name. When done, Select **OK**.

3. Select **Last Name**. The Username

screen and keyboard re- appear.

Enter your last name. When done,

Select **OK**.

4. Press the right arrow button on your standard remote or sweep a finger to the right on the Smart Touch Control. The **Gender** pop-up appears.

5. Highlight and select your gender. When you select our gender, you will see a black dot appear in your selection.

6. Press the right arrow button on your standard remote or sweep a finger to the right on the Smart Touch Control until the **Date** pop-up appears.
7. Enter your birth date using your remote. It will be used to personalize some parameters for you.
8. Press the right arrow button on your standard remote or sweep a finger to the right on the Smart Touch Control. The **Units** pop-up appears.

9. Select your preferred units. The selected units will be applied throughout the Fitness app. Move to the right again. The **Height** pop-up appears.
10. Enter your height. This will be used to calculate your body mass index (BMI). Move to the right again. The **Weight** pop-up appears.
11. Enter your weight. This will be used to calculate your body mass index

(BMI). Move to the right again. The application calculates your BMI.

12. The creation of your profile is finished. The TV displays your profile information and BMI. To start the Fitness app, select [Enjoy Fitness](#).

Using Fitness with categories

- [Exercise](#)

Provides information on your exercise goal, current status and recommended

contents.

- **Progress**

Provide information on your basic body profile, exercise progress, achievement of your goals, etc.

- **Edit**

Edit lets you change or adjust your fitness goals.

Selecting Exercise Programmes

Fitness displays a number of exercise

videos and programmes you can use to help you reach your fitness goals. Each of these videos and programmes must be downloaded from Samsung Apps. Videos labeled VOD (Video on Demand) are part of a group of free exercise videos. We suggest you download those first.

To download a VOD programme or video, follow these steps;

1. On the **Fitness** screen, highlight and

select a programme. A message appears asking you if you want to go to Samsung apps.

2. Select Yes. The Samsung Apps screen appears.

 This may take a few minutes.

3. If this is the first time you have download a VOD programme or video, you will be directed to download the VOD video app that lets you download and play all the

VOD exercise videos.

4. Follow the directions on the screen to download the VOD video app.
5. After the video app has been downloaded, press **RETURN**  several times to go back to the Fitness screen.
6. You can now select and play any of the VOD videos.

 As you play these videos, Fitness notes the video you are using and

calculates the number of calories
you have burned, base on the
video.



→ Kids

The Smart Hubs Kids app provides a quick app launcher and a recommended list of kids and education-related applications and contents your kids can start easily and quickly. It also provides management tools that let you control what your kids can view in the app and how long they can watch.

Using Kids with categories

- **Playground**

Displays recommended contents and applications. When you select an application or content, the TV executes the application or contents immediately.

 You can add up to 40 items to the recommended list. See "**My choice**" in this section.

 You can edit the contents list. For more detailed information, refer to

"My choice" in this section.

 Most of the content must be downloaded from Samsung apps. To download, follow the directions on the screen. When the download is complete, press **RETURN**  repeatedly until the Kids app reappears. Start the contents or app by highlighting and then selecting it.

- **Sticker Book**

Displays the Sticker Books with the

stickers your kids received. Also, it can be share with your [Family Story](#).

Your kids can receive the sticker through these methods:

- **By User (parent):** You can present a sticker using the [Present Stickers](#) function in the [Parents](#) menu.
- **Automatically:** Kids presents a sticker while the child is watching content.

Creating a Sticker Book

1. If you want to create a new **Sticker Book**, select **Sticker Book** on the top of the screen, and then **Create a New Sticker Book** at the bottom of the screen. The **Create New Sticker Book** screen appears.
2. Enter the Sticker Book's name using your remote. When done, select **Next**.
3. Select a colour for the Sticker Book.

When done, select **Next**.

4. Check the created sticker book. If you want to change a name, select **Edit**. If you want to change a colour, select **Back**.

5. When done, select **Done**. A new Sticker Book is created.

 You can create a new sticker book.

Maximum number of books is 10.

 You can check arrived stickers by highlighting and selecting **New**

Sticker. Only ten new sticker types are displayed in New Sticker at one time.

- **Browse all**

Displays the kids or education-related applications list and all contents list.

 When you select an application or contents, if the application or contents has not been installed on the TV, the TV displays the corresponding download screen from

the **Samsung Apps** screen.

To use Browse All, follow these steps:

1. On the **Browse all** screen, select a character. The contents for that character appears on the right.
2. Select the kind of contents you want.

Videos: Displays the video contents of the corresponding character.

Games: Displays the game contents of the corresponding character.

Stories: Displays the e-book contents of the corresponding character.

3. The detailed information screen for the selected contents appears. You can play the contents, share the contents with your **Family Story**, add the contents to **My choice**, and give the contents a rating.

 If you were purchased already, you can play the contents. If you are not purchased, you can download

the contents in the Samsung Apps.

- Parents

Lets you edit the Playground, give stickers to your kids, check usage time, and set the watching limit alarm.

My choice

You can add or delete contents in the Playground. The Playground displays the added contents only.

To add or delete contents in the

Playground, follow these steps:

1. On the **Parents** screen, select **My choice**. The **My choice** screen appears.

 **My choice** contains content you added through the **Browse all** screen.

2. Select contents you want to add or delete in the list. A pop-up message appears.

3. Select **Yes**.

4. The selected contents is added or deleted.

Present Stickers

When your kids do a good job today, you can present a sticker to them.

To present a sticker to your kids, follow these steps:

1. On the **Parents** screen, select **Present Stickers**. The **Present Stickers** screen

appears.

2. Select a sticker you want to present.

A pop-up message appears.

3. Select **Yes**.

4. Select a sticker book you want to put the sticker into, and then select **Present**.



If you want to check a sticker book, select **Check Now**. You can check the stickers in the selected sticker book.

5. The sticker is placed in the sticker book you selected.

History

Lets you check how long your kids have used the app through a graph.

Also, lets yo check how long your kids have used each video or content item.

Change a date or content title using your remote.

Set Alarm

Lets you set how long your kids can watch. When the time is up, the alarm window appears.

To set the time your kids can watch, follow these steps:

1. On the **Parents** screen, select **Set Alarm**. The **Set Alarm** screen appears.
2. Select **Timer**.
3. Select amount of time. The alarm is

set.

Web Browser



→ Web Browser

(May not be available, depending on your country.)

Using this function provided by the **Smart Hub**, you can surf the Internet on your TV.

1. On the **Smart Hub** screen, select **Web Browser**. The **Web Browser** screen appears.

2. Surf the Internet in the same way as

on a PC.

Using the coloured and function buttons with the Web Browser

- **B** Control Panel

Shows or hides the control panel at the top of the screen.

- **C** Link Browsing / Pointer Browsing

You can change the cursor to **Link**

Browsing mode or **Pointer Browsing**

mode. In **Pointer Browsing** mode, you

use a pointer to select items on the screen in the same way you use a pointer on a computer. In **Link Browsing** mode, you move a blue rectangle from link to link on the screen by pressing the directional keys on your remote. **Pointer Browsing** is best if you have a mouse attached to the TV. **Link Browsing** only works if you are browsing using your remote.

 When you select **Pointer Browsing**,

you cannot use the remote to select items in the **Tools** Menu.

 In **Pointer Browsing** Mode, you can use the arrow keys on your remote to move the pointer.

- **D PIP**

Turns **PIP** on or off. With **PIP** on, you can watch TV while using the **Web Browser**.

- **Tools**

Displays the **Tools** menu.

Control Panel: Shows or hides the control panel in the top of the screen.

Link Browsing / Pointer Browsing: You can change the cursor to **Link Browsing** mode or **Pointer Browsing** mode.

PIP: Turns **PIP** on or off.

PIP Settings: Lets you select where the PIP window is displayed on the screen and which sound source the TV plays, sound from the main screen (the browser) or sound from the sub screen

(the PIP window).

Add to Bookmark: Add the current page to your **Bookmarks**.

Enable Grabbing / Disable Grabbing:

You can move a current web page in the direction you choose. To move a web page, select a page, and then move it in the direction you wish using your remote.

 Available only when the cursor is set to **Pointer Browsing**.

-   Scroll up/down

You can scroll the page up or down.

-  Return

Close the Web Browser.

Using the Control Panel with Web Browser

The Web Browser has a series of icons across the top of the screen which provide a number of useful functions.

With these icons, you can easily use the Web Browser. The icons are

described below, starting with the icon on the far left of the screen.

- **Back**

Moves to the previous web page.

 If there is no previous web page, this icon will not work.

- **Forward**

Moves to the next web page.

 If there is no next web page, this icon will not work.

- **Refresh / Stop**

Refreshes the current page or stops the current connection from loading.

- **Home Page**

Goes to the URL you specified as you're the home page.

- **Zoom**

You can select a zoom level of **50%**, **75%**, **100%**, **125%**, **150%**, **200%**, **300%** and **Fit to screen**.

- **Bookmarks**

You can bookmark the current page

or select a favourite page to visit from the bookmark list. You can also sort by **Date**, **Name**, or **Times Visited**.

To sort, select the **Sort**. When you select **Enter URL**, you can enter in a new URL address directly using your remote or mouse and bookmark it.

When you highlight a bookmark, the **Options** button appear on the right. In the **Options** pop-up, you can edit the selected page or delete the selected

page from bookmark list.

By clicking the Text/Image button in the upper right of the screen, you can toggle the Bookmarks list between text descriptions of bookmarked pages and images of the bookmarked pages.

The Bookmarks screen can also display your Browsing History and the Windows list which contains a list of the browser windows that are currently active.

Using the Tools menu with Bookmark

- **Delete All**

Delete all bookmark lists.

- **Add to Bookmark**

Bookmarks the current page.

- **Import bookmarks**

You can import a bookmark file saved on another device such as a PC.

- **Export bookmarks**

You can export a bookmark file from your TV to another device connected to your TV.

- **History**

Displays the **History** screen. You can select a web page to visit in the **History** list. You can also sort by **Date**, **Name**, or **Times Visited**. To sort, select **Sort**. When you select **Enter URL**, you can enter in a new URL address directly using your remote or mouse. When you

highlight a page, the **Options** button appear on the right. In the **Options** pop-up, you can delete the selected page from the history list or add the selected page to bookmark.

 If you want to delete all entries in the history lists, open the **Tools** menu and then select **Delete All**.

- **URL**

Shows the URL of the current page. If you select the URL field, the URL pop-

up appears. Using your remote, you can enter a new URL directly.

Windows List

Displays list or images of open windows (the **Windows List**). You can open window from the list (using **Open new window**), select and access a window in the list, select and close a window in the list, or close all windows. When you select **Enter URL**, you can enter a new URL address directly using your remote or mouse. By clicking the Text/

Image button in the upper right of the screen, you can toggle the Windows list between text descriptions of open windows and images of the open windows.

Using the Tools menu with Windows List

- Open new window

Open a new web browser window.

The new web browser page

automatically displays the home page.

- **Close all windows**

Close all the currently opened windows listed in **Windows List**.

After closing all windows, the TV opens a new web browser window automatically. The new web browser window automatically displays the home page.

- **Search**

Lets you search the web. When you access the **Search** entry field, the **Search** screen appears.

To search the web by word input, follow these steps:

1. On the **Search** screen, select the search engine.
2. Select **Enter search keyword..** The keyboard screen appears.
3. Enter the word you want to use

as the keyword using your mouse or remote. The TV searches using the keyword and search engine you selected.

- **Share**

Share the current web page with your **Family Story**.

- **Options**

You can configure the **Web Browser** settings.

Configuring the Web Browser Using Options

Move the cursor to the top of the screen, and then select the **Options** icon.

- **Reading Tool**

Provides an easy-to-read page by enlarging the main text. **Reading Tools** is not available for all pages.

- **Approved Sites**

Allows to restrict your children's access to inappropriate web pages.

Therefore, this function allows access of only the registered web sites.

 Every time you access the **Approved Sites**, the PIN screen appears. The first time you access **Approved Sites**, enter the default PIN, 0-0-0-0 using the numbers keypad on your remote. You can change the PIN using the Reset password for **Approved Sites** function. See below.

Approved Sites feature: Turns the

Approved Sites function on or off.

Reset password for Approved Sites.:

Change the **Approved Sites** password.

Add current site: Lets you add the currently displayed web site to the **Approved Sites** list.

Manage Approved Sites: Lets you key in URLs to add to the **Approved Sites** List and delete sites from the **Approved Sites** list.

 If you turn **Approved Sites** on and

have not added any sites to the **Approved Sites** list, you will not be able to access any Internet sites.

- **Private Browsing**

Enable or disable the Privacy mode.

When the Privacy mode is enabled, the browser does not retain the URLs of sites you visit. If you want to enable **Private Browsing**, select **Yes**.

If the **Private Browsing** function is running, the “Stop” icon appears in

front of the URL at the top of the screen. To disable **Private Browsing**, select it again when **Private Browsing** is enabled.

- **PIP Settings**

Lets you configure the **PIP** function.

PIP Position: Select a position for the PIP sub-picture.

Sound: Select the audio source you will hear - Main or Sub - when PIP is on.

- **Web Browser Settings**

You can configure **Web Browser** options.

Set as homepage: You can set the home page.

- **Most visited:** Set the most frequently visited URL as the home page.
- **Current Page:** Sets the current page as the home page.
- **Bookmarks:** Sets the bookmarks URL as the home page.
- **Enter URL:** Lets you key in the URL

of the page you want for your home page. The keyboard works like a cell phone texting keyboard.

Pop-up blocking Setting: Turns the **Pop-up Block** on or off.

Ad Block Settings: You can determine whether to block advertisements and select the URLs for which advertisements are blocked.

- **Ad Blocker:** Turns the **Ad Blocker** on or off.

- **Block current page:** Adds the current page to the blocked list.
- **Manage blocked sites:** You can add a website for which advertisements will be blocked by directly keying in the URL, or you can delete a website from the list.

General: You can delete your personal information.

- **Delete history:** Deletes the website history.

- **Delete browsing data:** Deletes Internet access information such as cookies.
- **Reset Settings:** Reset all web browser settings to the factory defaults.
- **Hide Menu:** Turns the control panel auto-hide on or off. If you select on, the control panel on the top will be hidden and only appear when you move the pointer to the top of the

screen.

Encoding: You can set the Encoding setting for web pages to Automatic or Manual.

- **Auto select:** Turns automatic Encoding for web pages on or off. The browser selects the appropriate encoding format automatically.
- **Settings:** Select an encoding format from a list of encoding formats manually. The format is applied to all

pages.

Pointer: You can set the speed of the cursor when the cursor is set to **Pointer Mode**.

- **Pointer Speed:** Select a pointer speed.

Browser Information: Displays the version and copyright information for the **Web Browser**.

Skype



Skype created a little piece of software that makes communicating with people around the world easy and fun.

With Skype you can say hello or share a laugh with anyone, anywhere. And if both of you are on Skype, it's free. Communicate with people around the world!

 For more information, download the

Skype user's manual from "www.samsung.com."

[Legal Statement]

Due to the various capabilities of products featuring the Samsung Smart Hub - Content Service, as well as limitations in the available content, certain features, applications, and services may not be available on all devices or in all territories.

Some features on Smart Hub may also require additional peripheral devices or membership fees that are sold separately. Please visit <http://www.samsung.com> for more information on specific device information and content availability.

The services and availability of content through Smart Hub are subject to change from time to time without prior notice.

SMART Interaction

Using this function, you can access and control menu options and functions using speech, motions or face recognition.

INFORMATION BOOKLET DISCLAIMER

- Facial Recognition Log-in

In order for **Face recognition** to function, a thumbnail image of your face will be stored in your TV for

logging-in purposes.

Logging into the **Smart Hub** using **Face recognition** may be less secure than using an ID and password.

- **TV Camera Usage**

Before using the TV Camera, you should be aware that under some circumstances and under certain legal conditions your use misuse of the TV Camera can result in legal liability for you. By using the TV Camera, you agree

that you will not use the camera (i) in locations where cameras are generally prohibited (such as bathrooms, locker rooms or changing rooms), (ii) in any manner that will result in an invasion of a person's privacy or (iii) in violation of any applicable laws, regulations or statutes.

When you use a TV camera, you should check whether a tape attached or not in rear of the TV camera, and then you

can use a TV camera after adjust a camera angle. When you don't want to use a TV camera, we recommend to use after a camera lens fixes to upwards. In this case, **Face recognition** and **Motion control** functions is not available.

Voice Control

Menu → System → Voice and motion control → Voice Control

Enable or disable the voice recognition

function. Lets you access and control menu options and functions using speech.

 For accurated voice recognition, refer to the Standard Voice Command list at the Samsung web site (www.samsung.com → support → Manuals & Downloads).

 **Voice Control** function can be affected recognition by unclear pronunciation, voice level, or

surrounding noise.

 To use **Voice Control**, you must pronounce words and phrases clearly and correctly in the language you selected in **Voice Language**.

 Ambient noise may cause **Voice Control** to malfunction. (Appropriate surrounding noise: Below 40dB)

Your TV can "hear" your voice commands in two ways:

- Using the TV's microphone. (Distant

Recognition)

 We are recommended using **Voice Control** function within about 4M with your TV. You can check the usable distance by using **Voice Control Environment Test (System → Voice and motion control → Voice Control → Voice Control Environment Test)**.

- Using the **VOICE**  button on your Smart Touch Control. (Close

Proximity Recognition)

- ☞ When you use the TV's microphone, the words may not be recognized because of ambient noise. If this occurs, try using the **VOICE**🎤 button on Smart Touch Control. The TV will be able to recognize a voice command more easily.
- ☞ The **VOICE**🎤 button on your remote is always activated. If you want to use the TV's microphone, turn on

Voice Control (System → Voice and motion control → Voice Control).

- ☞ Say a voice command to proper volume into the microphone of your remote within 10 - 30 cm. If voice level is too small or large, voice command may not be recognized.
- ☞ If a menu option or function is not supported by the Voice Control function, we suggest trying the Motion control function. To use the

Motion control, raise your hand while opening it toward the screen, hold it for a moment and then wave it 3~4 time to the left and right. **Motion control** starts. If the **Motion control** starts, the cursor is displayed at the centre of the screen and the **Motion guide bar size** is at the bottom of the screen.

- **Voice Control**

Turns the **Voice Control** function on or

off.

 The **VOICE**  button on your remote is always activated.

- **Voice Language**

Select the recognition language you want to use.

- **Trigger words**

You can select the **Trigger words** that start the **Voice Control** function. Alternatively you can turn on your TV using the **Trigger words** if **Voice Control**

function is set to **On**.

- If the **Trigger words** is set to Hi TV, say **Hi TV Power On**.
- If the **Trigger words** is set to Smart TV, say **Smart TV Power On**.

- **Voice command bar size**

Set the **Voice command bar size** mode to **Minimum** or **Full**. **Minimum** displays the least number of words and phrases you can use. **Full** displays all the words and phrases.

- **Voice Sensitivity**

You can configure the sensitivity of Voice recognition.

- **Howling**: Select howling levels.
- **Recognition responsiveness**: Select the responsiveness level of Voice recognition.

- **Voice Control Environment Test**

You can test the amount of ambient noise level detected by the TV microphone.

- **Noise Test**: This test checks the amount of ambient noise detected by the TV microphone. Too much ambient noise will prevent Voice Command from functioning. To run, select **Next** using your remote. The test start and takes a few seconds. Please keep as quiet as possible during the test.
- **Mic & Speaker Test**: Determines if the sound from the TV speaker

picked up by the TV microphone will disrupt Voice Command. To run, select **Start** using your remote. The test start and takes a few seconds. Please keep as quiet as possible during the test.

 Available only when **Speaker**

Select is set to **TV Speaker**.

- **Voice Control Test**: This test checks the volume level and clarity of your voice for use with **Voice Control**.

Select **Start** using your remote. After the test starts, say the test words listed in the instructions as loudly and clearly as you can.

 If the test is not successful, select **Retest**, and then say the words loudly and clearly again.

To use the Voice Control function, follow these steps:

 If **Voice Control** function is set to **On**, the

TV may be turned on automatically by effect of the ambient environment.

1. Say a **Trigger words** that you selected into the microphone embedded in the TV or press the **VOICE**  button on your Smart Touch Control. The TV displays the **Voice command bar size**.

 When you use **Voice Control**, the TV's volume is set to 5 automatically.

2. Say a word or phrase listed in the **Voice command bar size**. If you use the **VOICE**  button on your remote, release the button.

 Pronounce the word or phrase clearly and correctly in the language you selected in **Voice Language**.

3. Wait until recognition is complete, and then say the next command in the same fashion.

- ☞ To exit the **Voice Control** mode, say **Trigger words** or "Cancel" using the TV's microphone or press the **RETURN**  button.

Using the Voice Text Input Mode

1. Say a "Search All" while in the **Voice Control** mode.

- ☞ When you use a **QWERTY** keypad screen, you can use the Voice Text Input Mode. Say the **Trigger**

words that you selected into the microphone embedded in the TV or press and hold the **VOICE**  button on your Smart Touch Control. You cannot use it for some UIs such as URL input boxes.

2. Say the word or phrase you wish to search for.

3. The TV executes the spoken function.

 Voice Control performance levels will

vary based on the language spoken.

Motion control

Menu → System → Voice and motion control → Motion control

Enable or disable **Motion control** function. Lets you control your TV by moving the TV cursor using specific gestures.

 **Motion control** function can be affected recognition by motion

posture, or ambient brightness conditions.

- ☞ Some applications may not support **Motion control**.
- ☞ You may experience physical fatigue when you use the **Motion control** for a long time.
- ☞ To use the **Motion control**, please avoid direct sunlight.
- ☞ We are recommended using **Motion control** function within about 1.5M

~ 4M with your TV. TV Camera's recognition range may differ depending on the angle of camera or other conditions. You can check the recognition range of TV camera by using **Motion control environment test** (**System** → **Voice and motion control** → **Motion control** → **Motion control environment test**).

- **Motion control**

Turns the **Motion control** function on or

off.

- **Motion guide bar size**

Set the **Motion guide bar size** mode to **Minimum** or **Full**.

- **Motion control environment test**

Lets you test the brightness of room and the camera angle.

- **Brightness Test**: This test checks to see if your room is bright enough for **Motion control** to work properly. Select **Start** using your remote. The

test start takes only a few seconds.
(Appropriate ambient brightness: 50
- 500 Lux)

 Do not illuminating a sunlight or
lights directly into the camera
lens.

 Make sure that the camera lens is
not cloaked by an object.

- **Camera Angle Test:** On the **Camera Angle Test** screen, select **Start** using your remote. A rectangle appears on

the screen. Move yourself into the rectangle by adjusting the camera or moving yourself in front of the camera. If you are not within the rectangle position, the test may not work properly. After aligning your body with the TV, raise your hand while opening it toward the screen, hold it for a moment and then wave it 3~4 times to the left and right.

To use the Gesture Control function, follow these steps:

1. To use the **Motion control** , raise your hand while opening it toward the screen, hold it for a moment and then wave it 3~4 time to the left and right. **Motion control** starts. If the **Motion control** starts, the cursor is displayed at the centre of the screen and the **Motion guide bar size** is at the bottom of the screen.

2. Control the TV using your hands. For the useable gestures, see below.

 Note that the **Motion control** function closes if your hands go out of the camera range.

 While using **Motion control**, if you use the other device (i.e. remote control, keyboard, etc.) **Motion control** closes.

Controlling the TV with your hands using

gesture

-  **Access Motion control**
 - **Action:** Spreads your hand in the direction of the camera, and shake it three or four times from a side to side.
-  **Pointing Navigation**

Moves the cursor to the position you want.

 - **Action:** Spread your hand and guide the cursor to position you want.

- **Run**

Selects an item or executes a command that is indicated by the cursor or is highlighted.

– **Action:** Clench your fists.

 When you are viewing a page, you can use the **Run** action to move the page in the direction you want. To move a page, clench your fist, keep it clenched, and then move it in the direction you want the page to

move. Note that not all pages can be moved..

- **Back**

Return to the previous menu.

- **Action:** Spread your hand and rotate it counterclockwise.

- **Channel / Volume Control**

Changes the channel or adjusts the volume.

-  If you use the **Motion control** function while watching a channel,

the channel / volume control screen appears.

- **Action:** Use the **Pointing Navigation** to move the cursor to the channel or volume controller, and then uses the **Run** motion to adjust the channel or volume.

 If you use the **Run** motion once, it has the same effect as pressing a button on your remote. If you hold the **Run** motion, it has the same

effect as pressing and holding a button on your remote.

- **Scroll**

Scroll the page in the direction you want. For example, suppose that you want to scroll down.

 Some applications may not support this function.

1. Move the cursor to the bottom of the screen (page scroll zone) using the **Pointing Navigation** motion.

2. Move the cursor to the centre of the screen using the [Pointing Navigation](#) action.

3. The page will move down.

Face recognition

 → [Tools](#) → [Settings](#) → [Account Manager](#)
→ [Face recognition](#)

Enable or disable face recognition function. Lets you register your face in your Samsung account. Also, you can

log in to the Samsung account using the **Face recognition** function without inputting your account ID or password.

 You can register your face with only one account.

To register your face with your Samsung account, follow these steps:

 To use this function, you must log into **Smart Hub**. If you don't have a Samsung account, you must create one before

using this function. To create your Samsung account, refer to “Creating an Account” in [Smart Hub](#).

1. On the [Smart Hub](#) screen, open the [Tools](#) menu using your remote and then select [Settings](#).
2. Select [Account Manager](#). The [Account Manager](#) screen appears.
3. Select [Face recognition](#). The [Face recognition](#) screen appears.
4. Move your face into the square in the

centre of the screen, and then wait until the square changes from red to green.

 If **Face recognition** fails, select **Retry**, and then try again.

5. When done, your face is now registered in your Samsung account. The Continue to Register Service window appears.

 If you want to register service later, select **OK**. You can register

services later using the [Link to other accounts](#) in the [Smart Hub](#) menu ([Tools](#) → [Settings](#) → [Account Manager](#) → [Link to other accounts](#)).

To log in to your Samsung account using Face recognition, follow these steps:

- ☑ If you use [Face recognition](#) to log into [Smart Hub](#), it may be less secure than logging in with a password.

1. With the **Smart Hub** screen displayed, select **A** using your remote. The **Samsung Account** screen appears.

2. Select **Face Recognition Mode**. The **Face recognition** screen appears.

 To return to the **Samsung Account** screen, select **Password mode**.

3. The TV starts **Face recognition**.
Face the front of the TV screen.
The TV will recognize your face automatically.

 A Green square indicates a registered face. A red-square indicates an unregistered face.

 If the TV fails to recognize your face, try again.

4. The TV logs you into your Samsung account automatically.

 If the TV recognizes two or more the Samsung account list appears. Select your account to log in.

 If your face is unregistered, you

can register your face in your Samsung account. Follow steps 4 through 5 in the “To register your face to your Samsung account, follow these steps:” procedure above.

- ✍ If you have no account, you can create one. For more detailed information, refer to “Creating an Account” (Advanced Features → Smart Hub) in the e-Manual.

Specification for SMART Interaction

Voice Control

Wake On Voice

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance	1M – 4M
Required Voice Level	60 dB or higher	Angle	±30°
TV Volume(dB)	Step 0		
Supported Languages	16 languages	Supported languages may differ depending on the model or Go to Photos List setting.	

Magic Word

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance	1M – 4M
Required Voice Level	60 dB or higher	Angle	±30°
TV Volume(dB)	Step 10		
Supported Languages	16 languages	Supported languages may differ depending on the model or Go to Photos List setting.	

Embedded Voice Recognition

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance	1M – 4M
Required Voice Level	60 dB or higher	Angle	±30°
TV Volume(dB)	Step 5		
Supported Languages	16 languages	Supported languages may differ depending on the model or Go to Photos List setting.	

 To view all commands list of desired language, refer to the Guide at the Samsung web site (www.samsung.com → Support → Manuals & Downloads).

Motion control

Conditions for Recognition

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Operating Speed	Slow / Fast	Distance	1.5M – 4M
Environment [Illumination]	50Lux – 500Lux	Horizontal Angle	±15°
Background Recognition	White or Grey	Vertical Angle	±10°

Face recognition

Conditions for Recognition

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Skin Colour	White, Yellow, Black, Indian, Hispanic	Distance	1.5M – 4M
Environment [Illumination]	50Lux – 500Lux	Horizontal Angle	±15°
Background Recognition	White or Grey	Vertical Angle	±10°
Response Time	2 sec (for 1 person) – 8 sec (for 5 persons)		

Smart Touch Control

Touch

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Response Time	Within 300 msec. (Connected State)	Distance	30cm
	Within 1.5 sec. (Disconnected State)		4M
		Vertical Angle	0° – 20°
		Horizontal Angle	0° – 85°

Server Voice

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	45 – 50dB	Voice Recognition Distance	10cm – 30cm
		Remote Control Operating Distance	30cm – 4M
Required Voice Level	60 dB or higher		
TV Volume (dB)	Step 50		
Supported Languages	16 languages		
Response Time	~ 5 sec		

Hot Keys

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
	Connected State	Distance	30cm
	Disconnected State (IR)		4M
		Vertical Angle	0° – 20°
		Horizontal Angle	0° – 85°

Pairing

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Distance	30cm	Distance	30cm
Angle	0°		4M
Environment	The operation should not be effected.	Angle	0°
Response Time	1min.		45°

Panel Key

Usability

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Temperature/Humidity	0°C ~ 50°C 50% ~ 75%		

TV Camera

Internal

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance (AF Operation)	1M
Environment [Illumination]	30Lux – 500Lux		4M
Temperature/Humidity	0℃ – 50℃ 50% – 75%	Angle (AF Operation)	45° (Horizontal)
			20° (Vertical)

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	－ 40dB	Distance (AF Operation)	1M
Environment [Illumination]	30Lux － 500Lux		4M
Temperature/Humidity	0℃ － 50℃ 50% － 75%	Angle (AF Operation)	45°(Horizontal)
			20°(Vertical)

AllShare Play

 → AllShare Play

View or play photos, music, and movie files located on a USB Mass Storage Class (MSC) device, a PC, or a DLNA device (a cell phone, for example) on your TV.

 To view content on a USB device, you must plug the device into a USB port on the TV.

 If you want to use a USB HDD, we

recommend using a USB HDD that has a power adapter.

- ☞ To play content located on your PC or on a DLNA compatible cell phone, you must connect your PC and the TV to your network and download and install the AllShare network software on your PC. In addition, to play content located on a DLNA compatible device, you must have a wireless network.

Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the USB port on the TV.
3. When a USB device is connected to the TV, the **New device connected** window appears. Select a category you want to play among **Videos**, **Photos** and **Music**.

 The TV may display the files on the USB device automatically if it is the only device connected.

4. The **AllShare Play** Music, Photos, or Videos screen appears. If the USB device has folders, the TV displays a list of folders. Highlight and then select a folder. If the USB device does not have folders, the TV will display files or thumbnails.

5. Highlight and then select a file to

view or play.

-  To select a different Content Type or Device Type, press the **RETURN**  button repeatedly until the **AllShare Play** main screen appears.
-  For more information about playing back files, see the section of this manual starting with "Controlling Video Playback".

Disconnecting a USB Device

Method 1: Using the SOURCE button.

1. Press the SOURCE  button  Standard Remote Control or select a Source .
2. Select a desired USB device, and then press the TOOLS  button  Standard Remote Control or   Touch Control button. The Tools menu appears.

3. Select **Safely Remove USB Device**, and then wait until the selected USB device is disconnected. You can remove a USB device from the TV.

Method 2: Using the AllShare Play home screen.

1. Go to **AllShare Play** home screen. ( → **AllShare Play**)
2. Select any category except **My list**, and then press the  button **for**

Standard Remote Control or press the
Touch Pad **for Smart Touch Control**.

3. Select a desired USB device, and
then press the **TOOLS**  button **for**
Standard Remote Control or  **for Smart**
Touch Control button. The **Tools** menu
appears.

4. Select **Safely Remove USB Device**,
and then wait until the selected USB
device is disconnected. You can
remove a USB device from the TV.

 To remove a USB device from the TV, we recommend use **Safely Remove USB Device** function.

Read this information before using AllShare Play with a USB device.

Restrictions and Cautions

- ◆ Before connecting your device to the TV, please back up your files ensure against file damage or data loss.

SAMSUNG is not responsible for any data file damage or data loss.

- ♦ Connect a USB HDD to the dedicated USB (HDD 5V 1.0A) port.
- ♦ Do not disconnect a USB device while it is being read by the TV.
- ♦ If you connect a USB device with a USB extension cable, the TV may not recognize the USB device or read the files on the device.
- ♦ If a USB device you connect to the

TV is not recognized, the files on the device are corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, re-copy the files to the device, and then try playing again.

- ♦ If a file you deleted from the PC is still found when you run [Smart Hub](#), use the “Empty the Recycle Bin” function on the PC to permanently delete the file.

- ♦ If your PC cannot construct a functional database of saved files on a USB device because there is no free space on the USB device, you may not be able to view any new files you have added, even though you have saved these files to the USB device.

Supported Devices

- ♦ Certain types of USB Digital camera

and audio devices may not be compatible with this TV.

- ♦ **AllShare Play** supports only USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC include Thumb drives, Flash Card Readers, and USB HDD (USB HUB are not supported). Devices should be connected directly to the TV's USB port.

- ♦ More than 3TB USB HDD is not supported.
- ♦ If more than 2 PTP devices are connected, you can only use one at a time.
- ♦ If more than two MSC devices are connected, some of the devices may not be recognized.
- ♦ A USB device that requires high power (more than 500mA or 5V) may not be supported.

- ♦ If the TV has no input during the time set in **Auto Protection Time**, the Screensaver will run.
- ♦ The power-saving mode of some external hard disk drives may be released automatically when you connect them to the TV.

File system and formats

- ♦ The USB function might not work properly with unlicensed multimedia

files.

- ♦ MTP (Media Transfer Protocol) is not supported.
- ♦ The file system supports FAT16, FAT32, and NTFS.
- ♦ AllShare Play supports only the Sequential jpeg format. It does not support the Progressive jpeg format.
- ♦ The higher the resolution of the image, the longer it takes to display on the screen.

- ♦ The maximum supported JPEG resolution is 15360 X 8640 pixels.
- ♦ If a file is corrupted or the TV does not support the file type, the **Not Supported File Format**, message appears.
- ♦ If the files are sorted by **Folder view**, the TV can display the names of up to 1000 files in each folder.
- ♦ If the number of files and folders saved on a USB storage device is

over approximately 8000, some files and folders may not appear and some folders may be unopen able.

- ♦ The TV cannot play MP3 files with DRM that have been downloaded from a for pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including

protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.

- ♦ Even if a file you want to play is encoded in a supported format, an error message may appear due to a sub container or profile problem.

Connecting to a PC through a network

You can play pictures, music, and

videos located on your PC through a network connection using [AllShare Play](#).

 For more information on how to configure your TV and connect it to your network, refer to “Setting up the Network” in this manual.

 To view content located on your PC, you must have connected your TV and your PC to your LAN and downloaded and installed AllShare

PC Software on your PC.

- ☞ We recommend you locate both your TV and PC in the same network subnet. IP addresses have four parts, separated by periods (111.222.333.444). If your TV and PC are in the same subnet, the first 3 parts of the TV IP address and the PC IP address (111.222.333) will be the same and only the last part (the host address) will be different.

The following AllShare Play functions are not supported when you are playing media from a PC connected through a network:

- ☞ The **Background Music** and **Background Music Setting** functions.
- ☞ Sorting files by preference in the **Photos**, **Music**, and **Videos** folders.
 - The ◀ (REW) or ▶ (FF) function while a movie is playing.

Additional Notes

- ☞ DivX DRM is not supported.
- ☞ Set your PC firewall programme so that AllShare PC Software is a permitted programme.
- ☞ Depending on the Internet server, when you use **AllShare Play** through a network connection:
 - The sorting method may vary.
 - The **Scene Search** function may not be supported.

- The **Resume** function, which resumes playing of a video, may not be supported.
- The **Resume** function does not support multiple users. (It memorizes only the point where the most recent user stopped playing a video.)
- The search function may not work depending on the content information.

- ☞ You may experience file stuttering while playing a video in AllShare Play through a network connection.

You can play the content in the Web storage on TV. Follow the instructions below:

- Enter the AllShare Play service on TV → Select a content type of Music, Photo, and Video → Select SugarSync → Select a file to play.
- Visit www.sugarsync.com and you

can upload PC contents to the Web storage ([SugarSync](#)). However, you can use the TV to play the content in the PC only where the uploading path is Web Archive - [AllShare Play](#) - Music / Photos / Videos

- You can also use the TV to play the content in a [AllShare Play](#) - enabled mobile device where the uploading path is specified as above.
- When you visit the www.allshareplay.com.

com website, you will see how you can upload the content on your PC to the Web storage ([SugarSync](#)).

Using the AllShare Play

AllShare Play enables you to enjoy the following services. You need to log in to your Samsung account to use web storage or social services.

AllShare Play can play various contents in three ways:

- Using USB Device: You can play videos, photos, or music from a connected USB device.
- Using DLNA or Web storage: You can

play various contents from devices connected to your home network or web storage.

- Using Social Services: You can play some content from social services such as Family Story, Facebook or Picasa.

 Before using Facebook or Picasa, it should be installed in the Smart Hub.

 To use SugarSync, Facebook, or Picasa, you should log in

to corresponding application.

Alternatively, you can register your application account in to your Samsung account. To register your application account, refer to "Configuring the Smart Hub with Settings" in the Smart Hub section.

 To use Family Story, you should log in to your Samsung account. Before using Family Story, you should join a group at least one more.

 You can transfer a desired content to other device connected to the TV.

Contents Type	Supported transfer device
USB	DLNA, SugarSync, Family Story, Picasa, Facebook
Camera	DLNA
DLNA	USB
SugarSync	USB
Family Story	USB
Picasa	USB
Facebook	USB
Mobile device	USB

My list (In AllShare Play)

 → AllShare Play → My list

Using this function, you can access content easily and quickly.

- Recently played

Displays a list of recently played video, photo or music files. If you have a file you want to play again, use this list.

 When you play a file from the Recently played list, and the USB device is not connected or the file

is not found, the "Unable to find the file." message appears.

☞ The Recently played list can have up to 48 files. The files are arranged so that the most currently played files are at the top of the list.

☞ Recently played files located on a mobile phone may not play.

- What's new

Displays newly saved videos, photo, or music files on a connected USB

device or your PC. If you have a newly updated file you want to play, use this category.

- **Playlist**

Displays the Playlist files saved on the USB device or your PC. If you want to play a playlist, select the playlist. The selected playlist plays immediately.

 You can create up to 12 playlists.

 You can add up to 100 files to a single playlist.

- 📝 You can only add one type of content to a single playlist. For example, you can only add music files to a playlist that includes music files.

Creating a Playlist

1. On the **AllShare Play** main screen, select **Videos**, **Photos**, or **Music** on the left side of the screen.
2. On the right side of the screen,

highlight and select the device that has the files you want in the playlist. **AllShare Play** displays the folders and/or files on the device.

3. If **AllShare Play** is displaying folders, highlight and select the folder that contains the files you want. If it is only displaying files, go to Step 4.
4. Highlight a file, and then open the **Tools** menu using your remote,
5. Highlight and select **Add to Playlist**.

6. Highlight and select a file you want to add. The  mark appears in the check box.

7. Repeat Step 6 to select additional files.

 To select all the files in the list, select **Select All**. To cancel a selection, select the file again.

8. When done, select **Add**. The **Add to Playlist** screen appears.

9. Select **Create new**. The **Create a new**

playlist.. screen appears.

10. Enter playlist name using your remote or accept the default name.
11. When finished, Select **Done**. The new playlist is created. The Added pop-up appears.
12. Select **Play** to play now or **OK** to play later.

To add music files a playlist, follow these steps:

1. On the **AllShare Play** main screen, select **Videos**, **Photos**, or **Music** on the left side of the screen.

 You must select the kind of content that is already in the playlist. For example, if you want to add files to a music playlist, you must select Music.

2. On the right side of the screen, highlight and select the device that has the files you want in the playlist.

AllShare Play displays the folders and/or files on the device.

3. If **AllShare Play** is displaying folders, highlight and select the folder that contains the files you want. If it is only displaying files, go to Step 4.
4. Highlight a file, and then open the Tools menu using your remote.
5. Highlight and select **Add to Playlist**.
6. Highlight and select a file you want to add. The  mark appears in the

check box.

7. Repeat Step 6 to select additional files.

 To select all the files in the list, select Select All. To cancel a selection, select the file again.

8. When done, select **Add**. The **Add to Playlist** screen appears.

9. Highlight and select the playlist you want to add the files to. The Added pop-up appears.

10. Select **Play** to play now or **OK** to play later.

 To play your playlist, refer to "Playing the Playlist" in **My list** section.

To delete one or more files in the Playlist, follow these steps:

1. On the **AllShare Play** main screen, select **My list**.
2. In the Playlist area at the bottom of

the screen, highlight the playlist you want to edit.

3. Open the **Tools** menu using your remote, and then select **Edit playlist**.

The **Edit playlist** screen appears.

4. Select a file you want to delete. The  mark appears in the check box.

5. Repeat Step 4 to select additional files.

 To select all the files in the list, select **Select All**. To cancel a

selection, select the file again.

6. When done, select **Remove**. A pop-up message appears.
7. Select **Yes**. The selected file(s) has been removed from the playlist.

Videos (In AllShare Play)

 → AllShare Play → Videos

You can play video files saved on USB device and/or your PC.

 For more information about the subtitle formats and codec formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section.

Playing a Video

1. On the **AllShare Play** screen, select **Videos**.
2. Highlight and select the device you want to play.
3. If **AllShare Play** displays folders, highlight and select the folder that contains the file you want, then go to Step 4. If **AllShare Play** displays files only, go directly to Step 4.
4. Highlight and select the desired video on the file list screen.

- ❏ If you stop the video while it is playing, you can play the video later from the point where you stopped it.
- ❏ The file name appears on the top of the screen with the video's playing time.
- ❏ If video time information is unknown, the playing time and progress bar are not displayed.

Video playback control buttons

- ◀, ▶

Each time you select ◀ or ▶ using your remote, the playback speed change as follows. (◀ 1 / ◀ 2 / ◀ 3 / ▶ 1 / ▶ 2 / ▶ 3)

- ◀, ▶ **Standard remote control** / Slide a finger to the left or right **Smart Touch Control**

Jump to backward or forward from current position.

- II

Pause the scene.

- For Slow Motion: In pause mode, select ►►. Each time you select ►► using your remote, the playback speed is reduced in this order ►► 1/8 / ►► 1/4 / ►► 1/2. The playback speed is displayed in the upper left corner.
- For Step Mode: In pause mode, select II. Each time you select II

using your remote, a new frame will be appear.

- ☞ To return to normal speed playback, select ► using your remote.
- ☞ The product does not play sound in Step mode or Slow Motion.
- ☞ Slow Motion and Step Mode operate only in the forward direction.

Using the Tools menu with Videos

- On the file list screen, you can use the following these options:

- **View**

Lets you sort the file list by one of four sort criteria.

- **Play selection**

Lets you select one or more files to play immediately.

- **Send**

Lets you send your video files to

your Web storage or other devices.

 If you want to use this function,
you must log in to [Smart Hub](#).

- [Login / Logout](#)

You can login to or logout of your Samsung account.

- [Add to Playlist](#)

Lets you create playlists. When you create playlists, you can play a series of videos that you want to watch easily and quickly.

- **Go to playlist**

Moves to the Playlist screen.

- **Information**

Displays detailed information about the selected file.

- During playback, you can use the following options on the Tools menu:

- **Go to Videos List**

Stops the video and takes you to the file list screen.

- **Play from the beginning**

You can restart a video file from the beginning.

- **Scene Search**

You can use the **Scene Search** function during playback to view or start a movie from the scene of your choice.

 If the index information in the file is damaged or the file does not support indexing, you will not be able to use the **Scene Search**

function.

- **Title Search**

You can search the video using the left and right arrow keys or input a playing time directly using your remote.

- **Time Search**

Search the video or input the play time directly using your remote.

- **Repeat Mode**

You can play a single movie file or

all the files on the play list screen repeatedly.

- **Picture Size**

Lets you adjust the picture size to your preference.

- **Picture Mode**

You can change the **Picture Mode**.

- **Sound Mode**

You can change the **Sound Mode**.

- **Audio Language**

You can watch to the video in one of

supported languages. The function is enabled only when you play stream-type files which support multiple audio formats.

- **Subtitle**

Lets you view with language subtitles. You can select a specific language if the subtitle file contains multiple languages.

- **Subtitle Settings**

Displays the **Subtitle Settings**. You

can select subtitle options such as colour and transparency.

- **Information**

Displays detailed information about the selected file.

-  The functions available on the **Tools** menu at one time depend on the characteristics of the video you are playing. All functions are not necessarily available for all videos.

Using the View function with Video Files

 When you use the **AllShare Play** function with your Web storage rather than a USB device, **View** is not supported.

1. To sort files in the file lists, select **D** using your remote. The **View** screen appears.

2. Select sort criteria.

- **Folder view**

Displays the folders on the device

in alphabetical order. To view the file names and thumbnails, select a folder.

- **Title**

Sorts and displays the files by title in Symbol / Number / Alphabet / Special order.

- **Latest Date**

Sorts and displays files by the latest create date.

- **Earliest Date**

Sorts and displays files by the earliest create date.

Send your video files

Lets you send your video files to your Web storage or other devices.

 To use Send, you must be logged in to [Smart Hub](#).

1. To send video files in the file list, open the [Tools](#) menu using your remote, and then select [Send](#).

2. Select a video file you want to send.

The  mark appears in the check box.

3. Repeat Step 2 to select additional tracks.

 To select all the files in the list, select **Select All**. To cancel a selection, select the file again.

4. When done, select **Send**. The **Send** screen appears.

5. Choose the destination device to

send, and then select **Send**.

6. From these steps, please follow the instructions on the screen.

Photos (In AllShare Play)

 → AllShare Play → Photos

Viewing a photo (or slide show)

 For more information about the supported image formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section.

1. On the AllShare Play screen, select Photos.

2. On the right side of the screen,
select the device that has the photos
you want to view.
3. If **AllShare Play** displays folders,
select the folder that contains the
photos you want, then go to Step
4. If **AllShare Play** displays photo
thumbnails, go directly to Step 4.
4. To start a slide show, select ► using
your remote.



To view another photo manually,

press the ◀ or ▶ button. **Standard remote control** / To change a photo manually, slide a finger to left or right on the Touch Pad. **Smart Touch Control**

- ☞ During the slide show, all files in the file list are displayed in order, starting from the file you selected.
- ☞ When viewing a photo file or slide show, you can add background music if you have music files on

same device.

- ☞ If you select the wrong background music, you cannot change the music until the BGM has finished loading.

Photo playback control buttons

- ◀ / ▶

The slide show speed change as follow (**Slow**, **Normal**, **Fast**). The speed is displayed in the upper right

of the screen.

- ◀, ▶ **Standard remote control** / Slide finger to left or right **Smart Touch Control**

Go to the previous or next photo.

- ■

Return to the file list screen.

- ▶

Start the slide show.

- ||

Pause the slide show.

Using the Tools menu with Photos

- To use the Tools menu with photos, you must first highlight a photo file on the file list screen. After you have highlighted a photo on the file list screen, you can use the following options in the Tools menu:

- **View**

Lets you sort the file list by one of four sort criteria.

- **Play selection**

Lets you select one or more files to play immediately.

- **Send**

Lets you send your photo files to your Web storage, Social Services or other devices.



To use Send, you must be logged in to **Smart Hub**.

- **Login / Logout**

You can login to or logout of your

Samsung account.

- **Add to Playlist**

Lets you create playlists. When you create playlists, you can play a series of photos easily and quickly.

- **Go to playlist**

Moves to the Playlist screen.

- **Information**

Displays detailed information about the selected file.

- When playing a photo file, you can use

the following options:

- **Go to Photos List**

Moves to the file list screen.

- **Start Slide Show / Stop Slide Show**

You can start or stop a slide show.

Alternatively, select ► to start a slide show or || to stop a slide show using your remote.

- **Slide Show Speed**

You can select the slide show speed during the slide show. Alternatively,

select ◀ or ▶ using your remote.

- Slide Show Effect

You can set various slide show effects.

- Background Music On / Background Music Off

You can turn on or turn off background music.

- Background Music Setting

You can set and select background music when watching a photo file or

slide show.

- **Picture Mode**

You can change the **Picture Mode**.

- **Sound Mode**

You can change the **Sound Mode**.



Available only when Background Music is set to on.

- **Zoom**

You can zoom into images in full screen mode.

- **Rotate**

You can rotate images.

- **Information**

Displays detailed information about the selected file.

Using the View function with Photo Files

 When you use the **AllShare Play** function with **Family Story**, Facebook, or Picasa rather than a USB device, **View** is not supported.

1. To sort files in the file lists, select **D**

using your remote. The **View** screen appears.

2. Select sort criteria.

- **Folder view**

Displays the folders on the device in alphabetical order. To view the file names and thumbnails, select a folder.

- **Title**

Sorts and displays the files by title in Symbol / Number / Alphabet /

Special order.

- **Latest Date**

Sorts and displays files by the latest create date.

- **Earliest Date**

Sorts and displays files by the earliest create date.

- **Monthly**

Sorts and shows photo files by month.

Send your photos

Lets you send your photo files to your Web storage, Social Services or other devices.

 To use Send, you must be logged in to [Smart Hub](#).

1. For example, suppose that you want to send with your [Family Story](#).
2. To send photo files in the file list, highlight a file, open the [Tools](#) menu using your remote, and then select

Send.

3. Select a photo file you want to send.

A  mark appears in the check box on the left.

4. Repeat Step 3 to select additional tracks.

 To select all the files in the list, select **Select All**. To cancel a selection, select the file again.

5. When done, select **Send. The **Send** screen appears.**

6. Choose the destination device to send to.
7. Choose the family group to share with. A pop-up window appears.
8. Enter a message to send to the family group you selected.

 In the **QWERTY** keyboard screen is displayed, you can use a keyboard connected to the TV to enter the message.

9. When done, select **Send**.

Music (In AllShare Play)

 → AllShare Play → Music

Playing Music

 For more information about the supported music file formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section.

1. On the AllShare Play screen, press the arrow button to select Music.

2. Select the device that contains the files you want to play.
3. If AllShare Play displays folders, highlight and select the folder that contains the music files you want, then go to Step 4. If AllShare displays only files, go directly to Step 4.
4. Select the desired music file in the file list or select ► using your remote.



To move to a previous page, select

B using your remote. To move to the next page, select **C** using your remote.

 When the music is playing, you can fast forward or fast rewind the music file by selecting ◀◀ or ▶▶ using your remote.

 If the sound is abnormal when you play MP3 files, adjust the **Equaliser** in the **Sound** menu. (An over modulated MP3 file may cause a

sound problem.)

Music playback control buttons

During playback, you can use additional functions at the bottom right of the screen.

- **Play / Pause**

You can start or pause a music file.

Alternatively, you can select ► or || using your remote.

- **Repeat Mode**

You can play one or all the music files shown in the file list repeatedly.

- **Shuffle Mode**

You can play the music files sequentially or randomly.

- **Sound Mode**

You can change the **Sound Mode**.

Using the Tools menu with Music

- To use the Tools menu with Music, you must first highlight a music file

on the file list screen. After you have highlighted a music file on the file list screen, you can use the following options in the Tools menu:

- View

You can sort the file list by one of four sort criteria.

- Play selection

Lets you select one or more files to play immediately.

- Send

Lets you send your music files to your Web storage, or other devices.

 To use Send, you must be logged in to [Smart Hub](#).

- [Login / Logout](#)

You can login to or logout of your Samsung account.

- [Add to Playlist](#)

Lets you create playlists. When you create playlists, you can play a group of music files easily and quickly.

- **Go to playlist**

Moves to the Playlist screen.

- **Encoding**

You can select an encoding format from the encoding format list.

- **Information**

Displays detailed information about the selected file.

Using Play Selection with music files

1. Highlight a music file in the file list.

2. Open the **Tools** menu using your remote, and then select **Play selection**.
3. Select the track you want to add. A  mark appears in the check box on the left.
4. Repeat Step 3 to select additional files.

 To select all the files in the list, select **Select All**. To cancel a selection, select the file again.

5. Select **Play**. The selected music files play.

Using View with Music files

 When you use the **AllShare Play** function with your Web storage rather than a USB device, **View** is not supported.

1. To sort files in the file lists, select **D** using your remote. The **View** screen appears.

2. Select sort criteria you want.

- **Folder view**

Displays the folders on the device in alphabetical order. To view the file names and thumbnails, select a folder.

- **Title**

Sorts and displays the files by title in Symbol / Number / Alphabet / Special order.

- **Artist**

Sorts the music files by artist in alphabetical order.

- **Album**

Sorts the music files by album in alphabetical order.

- **Genre**

Sorts the music files by the genre.

Send your music files

Lets you send your music files to your Web storage, or other devices.

 To use the Send Function, you must be logged in to [Smart Hub](#).

1. To send music files in the file list, open the [Tools](#) menu using your remote, and then select [Send](#).
2. Select a music file you want to send. The  mark appears in the check box.
3. Repeat Step 2 to select additional tracks.

 To select all the files in the list,

select **Select All**. To cancel a selection, select the file again.

4. When done, select **Send**. The **Send** screen appears.
5. Choose the destination device to send, and then select **Send**.
6. From these steps, please follow the instructions on the screen.

Recorded TV (In AllShare Play)

 → AllShare Play → Recorded TV

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

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

deleted.

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

To record a current broadcasting programme

Allows you to record a programme currently being broadcasted.

Set the current time first to use this function.

1. When you record a broadcast programme, select ● using your remote. A pop up window will appear.

 We recommend using a USB HDD with at least 5,400 rpm, but a USB HDD of RAID type is not supported.

 A USB storage device cannot

record until it completes the
Device Performance Test.

2. Select **Length** to set up the recording time, and then select **OK.**

Playing Recorded TV Programme

1. On the **AllShare Play** screen, select **Recorded TV.**
2. Select the device you want to play.
3. Select the desired recorded TV file in the file list.

 To move a previous page, select  using your remote. To move a next page, select .

4. Select .

- The selected file is displayed on the top with its playing time.

Playback control button with Recorded TV

- , 

Each time select ,  your remote, the playback speed change as follows. (

1 / ◀◀ 2 / ◀◀ 3 / ◀◀ 4 / ◀◀ 5 / ◀◀ 6 / ◀◀ 7 / ▶▶
1 / ▶▶ 2 / ▶▶ 3 / ▶▶ 4 / ▶▶ 5 / ▶▶ 6 / ▶▶ 7)

- ◀, ▶ **Standard remote control** / Slide to left
or right direction **Smart Touch Control**

Jump to backward or forward from
current position.

- || button

Pause the scene.

- In pause mode, select ▶▶ using your
remote. Each time select ▶▶ using
your remote, the playback speed is

reduced to ▶1/8 / ▶1/4 / ▶1/2.

- In pause mode, select ⏸ using your remote. Each time the ⏸ function is selected, a new frame will be appear.

📖 To return to normal speed playback, select ▶ using your remote.

📖 The product does not play sound in stop mode.

📖 Stop motion operates only in the forward direction.

Using the Tools menu with Recorded TV

- On the file list screen, you can use the following these options:

- **Play Current Group**

Will play the contents of the selected groups.

- **View**

You can sort the file list by selecting sort criteria you want.

- **Play selection**

You can play by selecting the desired music file in the file list.

- **Delete**

Deletes the file from the list.

- **Add to Playlist**

Lets you make your own playlist.

When you use the playlist, you can play music you want to listen easily and quickly.

- **Go to playlist**

Moves to Playlist screen.

- Lock/Unlock

To enable or disable the lock.

- Device Management

On the device can scan and format.

- The following functions are available only in selected content item.

- Rename

Change the name of the content.

- Information

Displays detailed information about the selected file.

- During playback, you can use the following these options:

- **Go to Recorded List**

Moves to the file list screen.

- **Play from the beginning**

You can restart a video file from the beginning.

- **Title Search**

You can move directly to another title.

- **Time Search**

Search the video or input the play time directly using your remote.

- Repeat Mode

You can play movie files repeatedly.

- Picture Size

You can adjust the picture size to your preference.

- Picture Mode

You can change the Picture Mode.

- Sound Mode

You can change the Sound Mode.

- **Information**

Displays detailed information about the selected file.

Using the Timeshift function

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

1. When you watch a broadcast programme, select ► using your remote to start the Timeshift function.
2. If you want to stop the Timeshift

function, select ■ using your remote.

- ☞ The **Timeshift** mode operates for a maximum of 90 minutes.
- ☞ The **Timeshift** function is not supported for analogue channels.
- ☞ The **Timeshift** functions are disabled for channels locked with **Channel Lock**.

Before using the Timeshift and a record function...

Recorded videos are DRM (digital rights management) protected and cannot be played on a PC or other TVs. Note that files saved on the TV cannot be used after the main board is changed.

NOTE

- We recommend using a USB HDD with at least 5,400 rpm, but a USB HDD of RAID type is not supported.
- The availability of both recording and

the **Timeshift** function may differ depending on picture quality and the free space on the hard disk drive.

- USB memory stick is not compatible.
- When the **Timeshift** is used to the gunwales, the pause may be cancelled.
- If the 5% free memory space limit of the USB storage device is reached, the current recording process will be closed.
- When recording is performed by both

the PVR (Personal Video Recorder) function and a device that supports the HDMI-CEC feature, recording by the PVR function takes precedence.

- If the USB device has failed the **Device Performance Test**, the USB device must go through the **Device Format** and **Device Performance Test** again before you record with the **Guide** or **Channel**.
- The **Timeshift** functions can only be used with a USB storage device that

completed the **Device Performance Test**.

- If you attempt the recording or **Timeshift** function with a device that did not have the **Device Performance Test**, the function will not start.
- If any function that turns off the TV (**Sleep Timer**, **Off Timer**, etc.) is set for a time that conflicts with recording, the TV will be turned off once the recording is complete.

- For the **Schedule Recording** operation, the USB device requires 1.5GB of free space.
- The **Schedule Recording** function requires 100MB of free space on the USB device.
- If the free space of the USB device decreases to less than 50MB while a **Schedule Recording** is operating, the **Schedule Recording** function is automatically terminated.

- When both the **Schedule Recording** and **Timeshift** functions are running, and the free space on the USB device decreases to less than 500MB, only the **Schedule Recording** function is automatically terminated.
- The **Timeshift** function continues even after changing the digital channel and users can watch past programs using the saved **Timeshift** data.
 - If the TV enters a state where the

Timeshift function is not supported (application execution, input signal switching, analogue channel change, etc.), the **Timeshift** data are not saved.

- If the TV enters a state where the **Timeshift** function is not supported (application execution, input signal switching, analogue channel change, etc.) while the **Timeshift** function is running, it is automatically terminated

without an additional message being displayed.

- If a user tunes to a digital channel, the suspended **Timeshift** function resumes automatically.

Using the DLNA Function



→ AllShare Play

You can play media contents including videos, photos, and music saved on your mobile phones or the other devices (such as your PC) by controlling them on the TV via the network.

For more information, visit “www.samsung.com” or contact the Samsung call centre. Mobile devices may need additional software

installation. For details, refer to each device's user's guide.

☞ If your Samsung TV connects to a non-Samsung DLNA server, a compatibility issue may occur during video playback.

☞ By connecting your Samsung TV to a network via AllShare Play, you can use Samsung's original functions as follows:

- Playback of various video formats

(DivX, MP4, 3GP, AVI, ASF, MKV, etc.)

- Video thumbnail feature
- Bookmark function (to resume video playback)
- Auto-chaptering (scene navigation)
- Digital content management
- Compatibility with various subtitle formats (SRT, SMI, SUB, TXT, TTXT)

- Search with file names
- And many others

 To use the original DLNA functions of Samsung fully, it is recommended that you use the AllShare Play software provided in your TV.

AllShare Settings

Menu → Network → AllShare Settings

Shows a list of mobile phones or connected devices which have been set

up to use **AllShare Settings** with this TV.

 The **AllShare Settings** function is available in all devices which support DLNA DMC.

- **Allowed / Denied**: Allows / Blocks the devices.
- **Delete**: Deletes the devices from the list.

 This function only deletes the name of the device from the list. If the

deleted device is turned on or tries to connect to the TV, it may appear on the list again.

To play the media contents of the devices connected to DLNA function, follow these steps:

1. On the **AllShare Play** screen, select the kind of content you want to play: **Videos, Photos, Music**.
2. On the right side of the screen,

select DLNA. The TV displays the list of devices connected using the DLNA function.

3. Select a device. AllShare displays the accessible files or folders on the device.
4. Select a file in the file list. The selected file will play.

Playing media contents saved on DLNA devices

1. Connect the mobile phone or other devices which support [AllShare Play](#) function.
2. Play media contents on the device. A popup screen appears on the bottom of your TV.
3. Select [Allow](#) to accept the connected device. The media contents of the device can now play on your TV.



You can find the allowed devices on [AllShare Settings](#).



- An alarm window appears informing you that media contents (videos, photos, music) sent from a mobile phone will be displayed on your TV. The contents are played automatically 3 seconds after the alarm window appears.
- If you close the alarm window using your remote when the alarm window appears, the media contents are not played.

 The first time a device accesses your TV through the media function, a warning pop up window appears. Select **Allow**. This permits the phone to access the TV freely and use the **Media** function to play content.

 To turn off media contents transmissions from a mobile phone, set the device to **Denied** in the **AllShare Settings**.

- ❏ Contents may not play on your TV depending on their resolution and format.
- ❏ Some buttons may not work depending on the type of media content.
- ❏ Using the mobile device, you can control the media play. For details, refer to each device's user's guide.

Using the MHL function

You can enjoy videos, photos and music files on your TV when you connect it to a mobile device that supports Mobile High-Definition Link (MHL) function.

- ☞ To use the MHL function, you need an MHL-certified mobile device. You can check if your mobile device is MHL certified on the device manufacturer's website. To find a list

of MHL-certified devices, visit the official MHL website (<http://www.mhlconsortium.org>).

To use the MHL function, follow these steps:

1. With an MHL-dedicated cable, connect the USB port of the mobile device and the **HDMI IN 3 (MHL)** port of the TV.

 You can also connect the HDTV

adapter.

2. Select **Source** using your remote.

The **Source** screen appears.

3. Select **HDMI3**.

4. Play the file.

 To use the MHL function, you must upgrade the software to the latest version.

 When you use an MHL cable, only the **HDMI IN 3 (MHL)** port of the TV supports the MHL function.

- ☞ This product is officially MHL-certified. If you encounter any problem when using the MHL function, please contact the manufacturer of the mobile device.
- ☞ Some mobile devices (products) may not support the function depending on the performance or the function of the device.
- ☞ Since the TV screen is wider than the mobile device screen, the visual

quality may seem degraded.

 When you use an MHL-dedicated cable, you can charge the connected mobile device even if the TV is in standby state.

 The TV remote control supports the following buttons:

for Standard Remote Control

▲ / ▼ / ◀ / ▶ (Menu navigation)

◀◀ (REW), ▶▶ (FF), ◻◀ (select)

▶ (play), || (pause), ■ (stop)

→  (Move to previous menu)

for Smart Touch Control

Menu navigation: Slide your finger in the Touch Pad from one side to the other. Press the button in the top centre of Touch Pad. The TV displays these control functions:

- ◀ (REW), ▶ (FF),  (select), ▶ (play),
⏸ (pause), ■ (stop), →  (Move to previous menu)

Anynet+ (HDMI-CEC)

Menu → System → Anynet+ (HDMI-CEC)

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.

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

refer to the device's user manual.

You must connect an Anynet+ device using an HDMI cable. Some HDMI cables may not support Anynet+ functions.

-  Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
-  Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same

type.

 However, you can connect only one Anynet+ Home Theatre. To connect an Anynet+ Home Theatre, connect the Home Theatre to the TV using an HDMI cable then:

- To hear sound from the Home Theatre's front, left and right speakers and the subwoofer only, connect a digital optical cable between the **DIGITAL AUDIO OUT**

(**OPTICAL**) port on your TV and the Digital Audio Input on the Home Theatre.

- To hear 5.1 channel audio, connect HDMI cables to your Anynet+ DVD player, satellite box, etc. Then, connect the **DIGITAL AUDIO OUT (OPTICAL)** port on your DVD player, Satellite Box, etc. (i.e. Anynet+ Device 1 or 2) directly to the Home Theatre, not the TV.

Anynet+ (HDMI-CEC) Menu

TOOLS  → Anynet+ (HDMI-CEC)

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

- **View TV**

Change from Anynet+ mode to TV broadcast mode.

- **Device List**

Shows the Anynet+ device list.

- (device_name) **Menu**

Shows the menu of the connected device. E.g. if a DVD player is connected, the disc menu of the DVD player will appear.

- (device_name) **Tools**

Shows the Tools menu of the connected device. E.g. if a DVD player is connected, the Tools menu of the DVD player will appear.



Depending on the device, this

menu may not be available.

- (device_name) **Title Menu**

Shows the title menu of the disc in the connected device. E.g. If a DVD player is connected, the title menu of the movie in the DVD player will appear.

 Depending on the device, this menu may not be available.

- **Receiver**

Sound is played through the receiver.

Setting up Anynet+ (HDMI-CEC)

- Anynet+ (HDMI-CEC)

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

Set an Anynet+ Device to turn off automatically when the TV is turned

off.

 If **Auto Turn Off** is set to **Yes**,
running external devices will turn off
at the same time as the TV powers
off.

 May not be enabled depending on
the device.

- **Receiver**

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

Switching between Anynet+ Devices

1. Open the **Tools** menu using your remote, and then select **Anynet+ (HDMI-CEC)**.
2. Select **Device List**. The **Device List** screen appears.
 -  If you cannot find a device you want, select **Refresh** to refresh the list.
3. Select a device, and then wait until

the switch to the selected device is completed.

 The **Device List** menu appears only when you set **Anynet+ (HDMI-CEC)** to **On** in the **System** menu.

 Switching to the selected device may take up to 2 minutes. You cannot cancel the switching operation while switching is in progress.

 If you have selected an Anynet+ device using the **Source** function, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device using the **Device List** function.

Listening through a Receiver

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

sound through a receiver, go to **Receiver** screen (**System** → **Anynet+ (HDMI-CEC)** → **Receiver**). Then select **Receiver** and set to **On**.

-  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)**

port of the TV.

- ☐ When the receiver (i.e. Home Theatre) is set to on, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV (air) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD player and it is connected to the TV via HDMI, you will hear

only 2 channel sounds from the receiver.

Using the ARC function

You can listen to sound from the TV through a receiver connected using an HDMI cable without connecting a separate optical cable. To listen to sound through a receiver using the ARC function, go to **Receiver** screen (**System** → **Anynet+ (HDMI-CEC)** → **Receiver**).

Then select **Receiver** and set to **On**.

 To use the ARC function, a receiver which supports the HDMI-CEC and ARC features must be connected to the **HDMI IN 2 (ARC)** port.

 To disable the ARC function, set the **Receiver** to **Off**. Even if the TV transmits the ARC signal continuously, the receiver will be blocked from receiving the signal.

Troubleshooting

Menu → Support → Self Diagnosis →
Troubleshooting

To view a list of all troubleshooting items, go to e-Manual home screen (Menu → Support → e-Manual → Other Information) or press the **SUPPORT** button, and then search a desired item by selecting a chapter.

 When you use a SMART Interaction function, check whether the

corresponding menu turned on.

(Menu → System → Voice and motion control)

 **Voice Control** function can be affected recognition by unclear pronunciation, voice level, or surrounding noise. For accurate voice recognition, refer to the Standard Voice Command list at the Samsung web site (<http://www.samsung.com>).

 **Voice Control** performance may vary

depending on the language.

☞ **Motion control** function can be affected recognition by brightness of room and brightness of recognized face. Alternatively, recognition rate of **Motion control** may differ depending on the TV camera's angle or the operating speed. Therefore, we recommend to adjust a ambient brightness and TV camera's angle before using **Motion control**.

If you have other questions, call
Samsung customer Service or visit
"<http://www.samsung.com>".

Picture Quality (Troubleshooting)

First, perform the **Picture Test** and to see if your TV is properly displaying the test image.

(Go to **Menu** → **Support** → **Self Diagnosis** → **Picture Test**)

If the test image is properly displayed, the poor picture may be caused by the source or signal.

The TV image does not look as good as it

did in the store.

- ♦ If you have an analogue cable / set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.
- ☑ Many HD channels are up scaled from SD(Standard Definition) contents.
- ♦ Cable / Satellite subscribers: Try HD stations from the channel line up.

- ♦ Antenna connection: Try HD stations after performing Auto Tuning.
- ♦ Adjust the Cable/Set top box video output resolution to 1080i or 720p.
- ♦ Make sure you are watching the TV at the minimum recommended distance based on the size and definition of the signal.

The picture is distorted: macro block error, small block, dots, pixelization

- ♦ The compression of video contents may cause picture distortion especially in fast moving pictures such as those in sports and action movies.
- ♦ A weak or bad quality signal can cause picture distortion. This is not a TV issue.
- ♦ Mobile phones used close to the TV (cca up to 1m) may cause noise in the picture on analogue TV.

Colour is wrong or missing.

- ♦ If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.

There is poor colour or brightness.

- ♦ Adjust the **Picture** options in the TV

menu (go to **Picture** mode / **Colour** / **Brightness** / **Sharpness**)

- ♦ Adjust the **Energy Saving** option in the TV menu (go to **Menu** → **System** → **Eco Solution** → **Energy Saving**)
- ♦ Try resetting the picture to view the default picture settings (go to **Menu** → **Picture** → **Reset Picture**)

There is a dotted line on the edge of the screen.

- ♦ If the **Picture Size** is set to **Screen Fit**, change it to **16:9**.
- ♦ Change cable / satellite box resolution.

The picture is black and white.

- ♦ If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component on the TV.

When changing channels, the picture freezes or is distorted or delayed.

- ♦ If the TV is connected to a cable box, try to reset the box. (Disconnect and then reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes.)
- ♦ Set the output resolution of the cable box to 1080i or 720p.

Sound Quality (Troubleshooting)

First, perform the [Sound Test](#) to determine if your TV audio is operating properly. (Go to [Menu](#) → [Support](#) → [Self Diagnosis](#) → [Sound Test](#))

If the audio is [OK](#), the sound problem may be caused by the source or signal.

There is no sound or the sound is too low at maximum volume.

- ◆ Check the volume setting of the

device (Cable/Sat Box, DVD, Blu-ray etc.) connected to your TV.

The picture is good but there is no sound.

- ♦ Set the **Speaker Select** option to **TV Speaker** in the **Sound** menu.
- ♦ If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV.
- ♦ If you are using an external device,

check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI if you have the box connected to your TV using an HDMI cable.)

- ♦ If you are using a DVI to HDMI cable, a separate audio cable is required.
- ♦ If your TV has a headphone jack, make sure there is nothing plugged into it.
- ♦ Reboot the connected device by

disconnecting, and then reconnecting device's power cable.

The speakers are making an inappropriate noise.

- ♦ Check the cable connections. Make sure a video cable is not connected to an audio input.
- ♦ For antenna or cable connections, check the signal strength. Low signal level may cause sound distortion.

- ♦ Perform a **Sound Test**. (**Support** → **Self Diagnosis** → **Sound Test**)

No Picture / No Video (Troubleshooting)

The TV won't turn on.

- ♦ Make sure the AC power cord is securely plugged in to the wall outlet and the TV.
- ♦ Make sure the wall outlet is working.

The TV turns off automatically.

- ♦ Ensure the **Sleep Timer** is set to **Off** in the Setup menu.

- ♦ If your PC is connected to the TV, check your PC power settings.
- ♦ Make sure the AC power cord is plugged in securely to the wall outlet and the TV.
- ♦ When watching TV from an antenna or cable connection, the TV will turn off after 10~15 minutes if there is no signal.

There is no picture/Video.

- ♦ Check cable connections (remove and reconnect all cables connected to the TV and external devices).
- ♦ Set your external device's (Cable / Set top Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.
- ♦ Make sure your connected devices

are powered on.

- ♦ Be sure to select the TV's correct source by select **Source** using your remote.

Aerial(Air / Cable) Connection (Troubleshooting)

The TV is not receiving all channels.

- ♦ Make sure the Antenna cable is connected securely.
- ♦ Please try Setup to add available channels to the channel list. Go to **Menu** → **System** → **Setup** and wait for all available channels to be stored.

- ♦ Verify the Antenna is positioned correctly.

The picture is distorted: macro block error, small block, dots, pixelization.

- ♦ The compression of video contents may cause picture distortion, especially with fast moving pictures such as those in sports and action movies.
- ♦ A weak signal can cause picture

distortion. This is not a TV problem.

PC Connection (Troubleshooting)

A “Mode Not Supported” message appears.

- ♦ Set your PC’s output resolution so it matches the resolution supported by the TV.

The video is OK but there is no audio.

- ♦ If you are using an HDMI connection, check the audio output setting on your PC.

Network Connection (Troubleshooting)

The wireless network connection failed.

- ♦ Make sure the TV is connected to a wireless IP sharer (router).

Recording / Timeshift (Troubleshooting)

The USB device is not recognized or a Device Format, Checking Device or Device Performance Test fails.

- ♦ See the manual for the USB device to check that the USB device supports recording.
- ♦ If the USB device has a lock, ensure it is off.
- ♦ Check that the USB device can be

formatted when connected to the PC. Connect the USB to the TV and format it. (Formatting may fail intermittently.)

- ♦ If a **Device Performance Test** or formatting failed, it means that there is a problem with the USB hardware or the performance of the USB hardware is too low.

A message prompts me to format a USB

device that has been working well.

- ♦ If the USB device has a lock, ensure it is off.
- ♦ Recover the USB device using the recovery function in **Checking Device**.

The recording function does not work.

- ♦ Check that a USB device is connected.
- ♦ Check that the channel is a

recordable digital channel.

- ♦ If the signal is weak or does not exist, the recording function will automatically be closed.
- ♦ The TV will not record if the USB device has no free memory space. Check that this is not the case.

Timeshift Mode does not work.

- ♦ Check that a USB device is connected.

- ♦ Radio channels and analogue broadcasts are not supported.
- ♦ Data broadcast channels are not supported.
- ♦ If the signal is weak or does not exist, the Timeshift Mode function will automatically be closed.
- ♦ Timeshift Mode cannot be performed if the USB device has no free memory space. Check that this is not the case.

- ◆ USB memory stick is not supported.
Please use the USB HDD type.

A message indicates a performance test failure, and the recording and Timeshift Mode functions do not work.

- ◆ These problems may occur if you use a low-performance USB device that does not support recording. We recommend using a USB HDD with at least 5 400 rpm, but a USB HDD

of RAID type is not supported.

A scheduled recording has failed.

- ♦ A scheduled recording is disabled for certain operations (formatting, performance test, error checking, deleting) that access the file system of a USB device.
- ♦ If there is no USB device connected, the TV will not record even if the scheduled time is reached.

- ♦ The TV will not record if the USB device has no free memory space. Check that this is not the case.
- ♦ If you record a channel locked with **Programme Rating Lock**, the PIN input window will appear when you try to play back the recording.

Several recording devices are connected but the TV stopped recording.

- ♦ If multiple recording devices are

connected and the device set as Default Recording Device has no free memory space, the recording function will be closed. Attempt recording again. The device with the most free memory space will automatically be set as Default Recording Device and the TV will start recording.

Others (Troubleshooting)

The picture won't display in full screen.

- ♦ HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.
- ♦ Black bars will appear on the top and bottom of the screen when you watch movies that have aspect ratios different from your TV.

- ♦ Adjust the picture size options on your external device or set the TV picture size to full screen.

The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.

- ♦ Programme the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set user manual for the SAMSUNG TV code.

A “Mode Not Supported” message appears.

- ◆ Check the supported resolution of the TV, and adjust the external device’s output resolution accordingly. Refer to the resolution settings in the User manual.

There is a plastic smell from the TV.

- ◆ This smell is normal and will dissipate in a short time

The TV Signal Information is unavailable in the Self Diagnosis menu.

- ♦ This function is only available with digital channels from an Antenna / RF/Coax connection.

The TV is tilted to the side.

- ♦ Remove the base stand from the TV and reassemble the stand.

There are difficulties assembling the stand base.

- ♦ Make sure the TV is placed on a flat surface. It is necessary to use magnetized screw driver if you cannot remove the screws from the TV.

The channel menu is greyed out.
(Unavailable)

- ♦ The **Channel** menu is only available

when you select the TV source.

Your settings are lost after 30 minutes or every time the TV is turned off.

- ♦ If the TV is in the **Store Demo** mode, it will reset audio and picture settings every 30 minutes. Change the settings from **Store Demo** mode to **Home Use** mode in the **Setup** procedure. Select TV in the **Source** using your remote, and go to **Menu**

→ System → Setup.

You have intermittent loss of audio or video.

- ♦ Check the cable connections and reconnect them.
- ♦ Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we

recommend using cables with 90 degree connectors.

You see small particles when you look closely at the edge of the frame of the TV.

- ◆ This is part of the product's design and is not a defect.

The PIP menu is not available.

- ◆ PIP functionality is only available when you are using a HDMI or

components source.

You turned the TV off 45 minutes ago, and it turned on again.

- ♦ It is normal. The TV operates the OTA (Over The Aerial) function itself to upgrade firmware downloaded whilst your watching TV.

There are recurrent picture/ sound issues.

- ♦ Check and change the signal/source.

A reaction may occur between the rubber cushion pads on the base stand and the top finish of some furniture.

- ♦ To prevent this, use felt pads on any surface of the TV that comes in direct contact with furniture.

You can keep your TV as optimum condition to upgrade the latest firmware on web site (samsung.com → Support → Downloads) by USB.

POP (TV's internal banner ad) appears on the screen.

Select **Home Use** under **Setup** mode.
For details, refer to the **Setup** Feature.

The Plasma TV is making humming noise.

for PDP TV Plasma TVs typically make a soft humming sound. This is normal. It's caused by the electrical charges that are used to create the images on

the screen.

If the humming sound is loud, you may have set the brightness on the TV too high. Try setting the brightness lower.

You can also have loud humming if the back of your Plasma TV is too close to a wall or other hard surface. Also, try rerouting your connection cables.

An improperly installed wall mount can also create excessive noise.

Image Retention (Burn In) Issue.

for PDP TV To minimize the possibility of screen burn, this unit is equipped with Pixel Shift screen burn reduction technology. Pixel Shift lets you set the picture so it moves slightly up and down (Vertical Line) and side to side (Horizontal Dot). The regular, slight movement of the picture reduces screen burn in.

Anynet+ (HDMI-CEC) (Troubleshooting)

Anynet+ does not work.

Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.

You can connect only one receiver (home theatre).

Check if the Anynet+ device power cord is properly connected.

Check the Anynet+ device's Video/

Audio/HDMI cable connections.

Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu.

Check whether the TV remote control is in TV mode.

Check whether the remote control is Anynet+ compatible.

Anynet+ doesn't work in certain situations. (Searching channels, operating **Smart Hub** or **Setup**, etc.)

If you have removed and then

reconnected the HDMI cable, please make sure to search devices again or turn your TV off and on again.

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.

(Menu → System → Anynet+ (HDMI-CEC))

Open the Tools menu using your

remote and then select **Anynet+ (HDMI-CEC)**. Then select a menu you want.

I want to exit Anynet+.

Select **View TV** in the Anynet+ menu.

Go to the **Source** screen using your remote and select a non- Anynet+ device.

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 after the TV has completed Anynet+ configuration or has finished switching to Anynet+.

The Anynet+ device does not play.

You cannot use the play function when **Setup** is in progress.

The connected device is not displayed.

Check whether or not the device supports Anynet+ functions.

Check whether or not the HDMI cable is properly connected.

Check whether Anynet+ (HDMI-CEC) is set to On. (Menu → System → Anynet+ (HDMI-CEC))

Search Anynet+ devices again.

Anynet+ requires an HDMI connection.

Make sure the device is connected to

your TV with an HDMI cable.

Some HDMI cables may not support Anynet+ functions.

If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please repeat the device scan.

The TV sound is not output through the receiver.

Connect the optical cable between TV

and the receiver.

The ARC function enables digital output of sound using the **HDMI IN 2(ARC)** port and can only be operated when the TV is connected to an audio receiver that supports the ARC function.

AllShare Play (Troubleshooting)

This file may not be playable properly.

This may appear because of the high bit rate of the content. Content generally will play but could experience some playability issue.

Smart Hub (Troubleshooting)

Some application contents only appear in English. How can I change the language?

The Application content language may be different from the application user interface language.

The ability to change the language depends on the service provider.

Some application services do not work.

Check with the service provider.

Refer to the help website for application service provider information.

When a network error occurs, I can only use the setting menu.

If network connection doesn't work, your service might be limited, as all functions except the setting menu need to be connect to the internet.

Web Browser (Troubleshooting)

1. To open **Web Browser**, select **Web Browser** in **Smart Hub**. Unlike a PC, the Web Browser may be displayed differently.
2. The **Web Browser** is not compatible with Java applications.
3. When you attempt to download a file, and the file could not be saved, an error message will appear.
4. Access may be blocked to some

websites or to web browsers
operated by certain businesses.

5. Playback of Flash video may be restricted.

6. E-commerce, for purchasing products online, is not supported.

7. Scrolling a web page that allows only part (and not all) of the page to be scrolled may cause corrupted characters.

8. ActiveX is not supported.

9. Some options cannot be accessed in **Link Browsing** mode. (To access such options, switch to **Pointer Browsing** mode.)
10. Some text may appear corrupted because the number of supported fonts is limited.
11. The response to a command on the remote or the screen display may be delayed temporarily if a web page is currently loading.

- 12. Copy and Paste are not supported.**
- 13. When writing emails or posting messages, some functions (Such as changing the size or colours.) may not be supported.**
- 14. The number of bookmarks and logs that can be saved is limited.**
- 15. The maximum number of windows that can open at the same time may vary depending on browsing conditions or the TV model.**

16.The web browsing speed depends on the network conditions.

17.PIP will automatically be deactivated if a video is played in the browser. Videos may not commence playback after PIP interruption and a possible refresh for the page may be required.

18.The Web Browser can play MP3 audio files only.

19.The function for importing or exporting bookmarks is compatible

with bookmark files in a particular file format only. (Compatible format: Netscape-bookmark-file-1)

20. When you import or export bookmarks, the folder tree is not included.

21. If you import the bookmark file to a Computer from the TV, the bookmark file will be saved in “Samsung Smart TV Bookmark” folder.

22. If the time is not set in the menu

(Menu → System → Time → Clock),
the history information may not be
saved.

23. Visited web site history is saved
in chronological order and will be
removed from the list by oldest page
accessed.

24. Some video or audio content may
not play during Flash playback
depending on the video/audio codec
supported.

25. A sudden change in the picture brightness inside the video window may affect the brightness of the surrounding stationary picture. **for**

PDP TV

Using the Smart Touch Control

Improved user convenience has been provided so that you can switch the channel and adjust the volume with just your fingertips while focusing on the TV screen. In addition, the built-in touch pad removes the need for a mouse when you change the menu settings and search for something on the Internet.

Smart Touch Control at a Glance



- : Turns the TV on and off.
-  / : Adjusts the Volume.
-  / : Changes channels.

- **RETURN** : Returns to the previous menu.
- **VOICE** : Lets you access the **Voice Control** function. When you press the button, the TV displays the command list. You can speak using the microphone embedded in your remote.

 For more detailed information about the **Voice Control** function, see "SMART Interaction" in the e-manual.

- **NUMBER**: Displays the Number button screen. You can select a number using the Touch Pad.
- : Brings up the Smart Hub applications. See e-Manual chapter Advanced Features → Smart Hub. To exit an application that is running easily, press the  button.

 If you don't press any button within 30 seconds, the Smart Touch Control is set

to Sleep mode automatically. To wake up the Smart Touch Control, press the Touch Pad.

- ✎ If you use the integrated remote control for a BD home theater some functions may be unavailable. Therefore, using Anynet+ is recommended.

Initial Pairing

After you have run the Initial Setup on your TV, you should connect your

Smart Touch Control to your TV.

1. Point the Smart Touch Control toward the TV's IR Blaster and press any key on the Smart Touch Control.
2. The connection icon appears at the bottom left of the screen and the Smart Touch Control is automatically connected to the TV.

 If you want to perform the pairing process again, press the reset button in the centre of the back cover using

a pin or the tip of an unbent paper clip. The Smart Touch Control will be initialized.



Smart Touch Control **PAIRING** Reset button.

Calibrating the Touch Pad

To calibrate the touch pad on the Smart Touch Control, follow these steps:

1. Press the **NUMBER** button for 3 seconds. The calibration starts.

2. When done, all the LEDs on the top of the Smart Touch Control blink twice simultaneously.

 While calibrating, don't touch the touch pad.

 If the touch pad loses accuracy, recalibrate the touch pad by repeating Steps 1 and 2.

Using the Touch Pad

To display the shortcut functions list on the

bottom of the screen, press the  button at the bottom of the touch pad. This list includes **Menu**, **Source**, **CH List**, **3D** and other functions.

To display the colour and playing control functions on the top of the screen, press the  button on the top of the touch pad.

- To Move the Highlight



Rest your finger on the touch pad, and then slide it from one side to the other, from top to bottom, or bottom to top.

 To move the Highlight continuously, flick your finger across the touch pad from right to left, left to right, top to bottom, or bottom to top.

- To Select an item



Press the Touch Pad.

- To Open the **History** screen



Press the  button on the left side of

the Touch Pad. A list of recently used functions appears. You can select a function again using the Touch Pad easily and quickly.

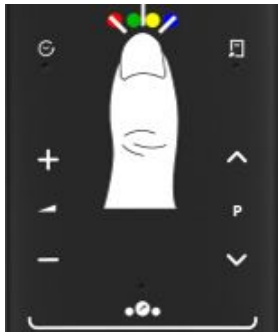
- To Open the **Tools** menu



Press the  button on the right side of the Touch Pad. Quickly select

frequently used functions.

- To Open the colour, playing control and exit functions.



To display the colour, exit and play control functions on the top of the screen, press the ●●●● button on the top of the touch pad.



→ : Close all menus shown on the screen.

- To Open the Shortcut Functions Screen,



Press the  button in the bottom centre of the Touch Pad. You can select a desired function (e.g. [Menu](#) (),

Source (→), Info (*i*), etc.) easily.



- Using the **Mute** function
 - If you press and hold the Touch Pad, it has same effect as pressing the **MUTE** button on your remote.
 - However, if you press and hold the touch pad when using **Web Browser**, the Touch Pad switches to the Scroll mode. When you press the Touch

Pad again, the Scroll mode switches general mode.

- Press the Touch Pad or **RETURN**  button to return to the general mode.

To Enter a channel number using the Smart Touch Control

1. While watching a broadcast, press the **NUMBER**  button on the Smart Touch Control. The TV displays the number button screen.

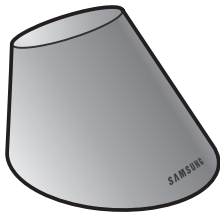
2. Using the touch pad, highlight a number, and then press the touch pad. The TV displays a list of channels that start with the number you selected.

3. Using the touch pad, highlight the channel in the list you want, and then press the touch pad.

 You can also change the channel by touching the up or down channel icon on the touch pad. If you touch

the touch pad immediately after, the TV displays the list of memorised channels. Select a channel by moving or flicking your finger up or down, and then pressing the touch pad.

Using the Smart Touch Control with IR Blaster



When you connect IR Blaster to your

TV, you can control connected external devices through your TV using the Smart Touch Control.

IR Blaster Pairing

1. Turn the IR Blaster on, and if the LED blinks, connect the IR Blaster to the TV.
2. Briefly point the IR Blaster toward the IR sensor of the TV and press the **PAIRING** button at the bottom.

3. The connection icons appear on the bottom left of the screen, and the TV connects to IR Blaster automatically.

 If the connection process failed, please turn off and on the IR Blaster, try again from step 2.

 To set an Universal Remote Control after pairing an IR Blaster, select **Yes**.

Precautions for Using an IR Blaster

 To use an IR Blaster, the IR Blaster

must be located nearby with external devices connected to the TV.

- ☞ Note that it should be no obstacle between the external device's IR receiver and an IR Blaster.
- ☞ Install the IR Blaster within 50 cm and 45 degrees of the up, down, left and right directions of the IR sensor of the external device.
- ☞ If you control an external device by using the Smart Touch Control, the

IR Blaster sends an IR signal into a corresponding external device.

Setting up the Universal Remote Control

Lets you control a Set-Top-Box (STB) or a BD player or both connected to the TV using your Smart Touch Control.

After you connect the device to the TV, the Smart Touch Control can control the navigation, number, and other keys needed to operate and control the

device.

- ☞ The Universal Remote Control can adjust TV's volume, but STB's volume cannot be adjusted. Watch STB after adjusting STB's volume to appropriate level.
- ☞ Depending on the version of an application, the **Universal remote setup** instructions may differ. In this case, please follow the instructions on the screen.

To connect an external device to your Smart Touch Control, follow these steps:

1. Select [Add a device to control](#), and then press the touch pad.
2. Select an external device from the connected devices, and then press the touch pad.
3. Select the port used to connect the external device, and then press the

touch pad.

 Make sure that the selected device is on. If it is turned off, turn the power on and press **Refresh**.

4. Select **Search brands**, and then press the Touch Pad. A keyboard and an entry field appear. Enter the first few letters of the brand name of your device using the Smart Touch Control, and then select **Done** at the bottom of the keyboard. In the list

that appears below the entry field,
select the brand name of your device,
and then press the touch pad.

 If you want to search the brand
of STB (Set-Top box), you can
search the STB by using the brand
name or a cable provider.

5. Select **Search model**, and then press
the touch pad. A keyboard and an
entry field appear. Enter the first few
letters and numbers of the model

name of your device using the Smart Touch Control, and then select **Done** at the bottom of the keyboard. In the list that appears below the entry field, select the model name of your device, and then press the touch pad.

 If the search for model name does not work properly, search with a part of the model name or use the Search for recommended model code.

6. Select **Download**, and then press the touch pad. Download the configuration data for the IR Blaster in the same way.

7. When all the settings are complete, select the **Complete** button and press the touch pad.

 To reset IR Blaster and Smart Touch Control, press the  button on Smart Touch Control, and then select **Universal remote setup**.

Using the Search for Recommended Model Code

1. In the **Search model** name step in the integrated remote control setup, select the **Recommended** and press the touch pad.
2. Select **Download** to download the recommended model code.
3. Point the Smart Touch Control forward to the TV's IR sensor and

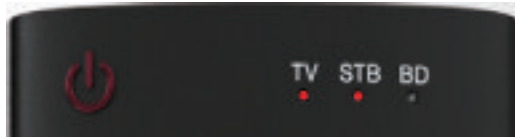
press the touch pad to test if the device works.

4. If the downloaded recommended model code does not work, repeat the steps from step 3.

 When you use the BD home theatre by using Universal Remote, some buttons may not be supported. In this case, we recommend to use [Anynet+ \(HDMI-CEC\)](#) function.

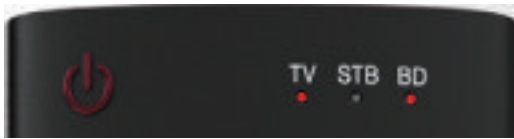
LED Indicator Statuses on the Touch Control

- Watch TV (The TV + STB LEDs are lit.)



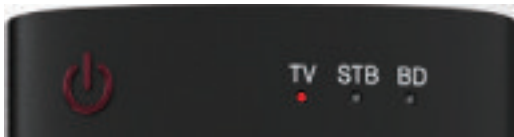
You can control the TV and Set-top box using the universal remote. (Press the Volume button to adjust the TV volume, press the channel button to change the STB channels, etc.)

- Watch Movie (The TV + BD Player LEDs are lit.)



You can control the TV and BD player using the universal remote. (Press the Volume button to adjust the TV volume, press the TOOLS button to open the BD players option menu, etc.)

- TV (TV LED is lit.)



You can only control the TV using the universal remote.

Supported Subtitle and AllShare Play file formats

Subtitle

External

- MPEG-4 timed text (.ttx)
- SAMI (.smi)
- SubRip (.srt)
- SubViewer (.sub)
- Micro (.sub or .txt)

- SubStation Alpha (.ssa)
- Advanced SubStation Alpha (.ass)
- Powerdivx (.psb)

Internal

- **Xsub**

Container: AVI

- **SubStation Alpha**

Container: MKV

- **Advanced SubStation Alpha**

Container: MKV

- **SubRip**

Container: MKV

- **MPEG-4 timed text**

Container: MP4

Supported image resolutions

File Extension	Type	Resolution
*.jpg *.jpeg	JPEG	15360 x 8640
*.png	PNG	1920 x 1080
*.bmp	BMP	1920 x 1080
*.mpo	MPO	15360 x 8640

Supported music file formats

File Extension	Type	Codec	Comments
*.mp3	MP3	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac *.ac3	MPEG4	AAC	
*.flac	FLAC	FLAC	The Seek (jump) function is not supported. Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported.

Video Codec



Some video files in flash format might not play well depending on the codec

type.

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.mov *.flv *.vob *.svi *.m2ts *.mts *.divx	AVI MKV ASF MP4 3GP VRO VOB PS TS	DIVX 3.11/4.x/5.x/6.x	1920 x 1080	6 - 30	30	AC3 LPCM ADMPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) DTS Core G.711(A-Law, μ-Law)
		MPEG4 SP/ASP				
		H.264 BP/MP/HP				
		Motion JPEG				
		Window Media Video v9				
		MPEG2	640 x 480		4	
		MPEG1				
		VP6				
		SVAF	1920 x 1080		30	
		MVC				
*.webm	WebM	VP8		6 - 30	8	Vorbis

Other Restriction

- ❏ Video content will not play, or not play correctly, if there is an error in the content or the container.
- ❏ Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table above.
- ❏ If the Index Table is in error, the Seek (Jump) function is not supported.
- ❏ When you play video over a network connection, the video may not be

played smoothly.

- ☞ The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- ☞ Some USB/digital camera devices may not be compatible with the player.

Video decoder

- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 SP / MP /

AP L4 and AVCHD are not supported.

- For all Video codecs except MVC, VP8, VP6:
 - Below 1280 x 720: 60 frame max
 - Above 1280 x 720: 30 frame max
 - GMC 2 over is not supported.
- Supports only SVAF Top/Bottom and Side by Side.
- Supports only BD MVC Spec.

Audio decoder

- WMA 10 Pro supports up to 5.1 channel.
WMA lossless audio is not supported.
- RealAudio 10 lossless is not supported.
- QCELP, AMR NB/WB are not supported.
- If Vorbis is only in Webm container,
supports up to 2 channel.

Teletext Feature

(Depending on the country)

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

 You can change Teletext pages by select numeric using your remote

control.

Teletext on / mix / off: Activates the Teletext mode for the current channel. Press the button twice to overlap the Teletext mode with the current broadcasting screen. Press it one more time to exit teletext.

Store: Stores the Teletext pages.

Size: Displays the teletext on the upper half of the screen in double-size. To move the text to the lower half of

the screen, press it again. For normal display, press it once again.

Hold: Holds the display at the current page, in the case that there are several secondary pages that follow automatically. To undo, press it again.

Colour buttons (red, green, yellow, blue):
If the FASTEXT system is used by the broadcasting company, the different topics on a Teletext page are colour-coded and can be selected by coloured

buttons. Press the colour corresponding to the topic of your choice. A new colour coded page is displayed. Items can be selected in the same way. To display the previous or next page, select corresponding coloured button.

Mode: Selects the Teletext mode (LIST / FLOF). If pressed during LIST mode, switches the mode to List save mode. In List save mode, you can save a Teletext page into a list using the 8

(store) button.

Sub-page: Displays the available sub-page.

Page up: Displays the next Teletext page.

Page down: Displays the previous Teletext page.

Index: Displays the index (contents) page at any time while you are viewing Teletext.

Reveal: Displays the hidden text

(answers to quiz games, for example).

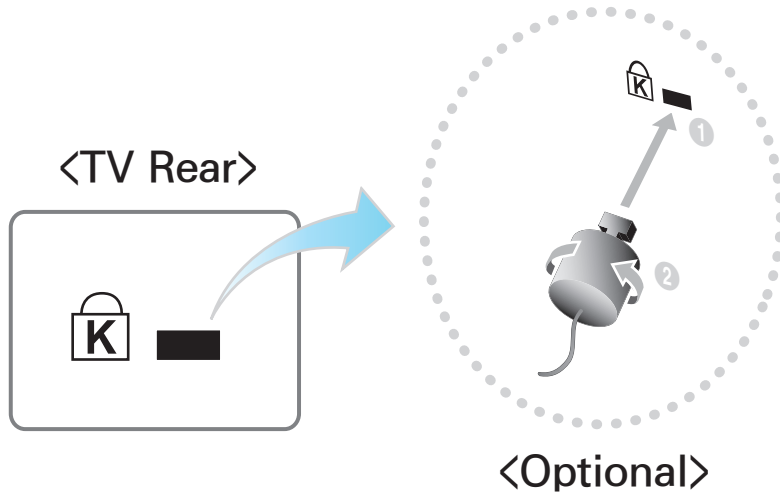
To display the normal screen, press it again.

Cancel: Shrinks the Teletext display to overlap with the current broadcast.

Typical Teletext page

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.

Anti-theft Kensington Lock



A Kensington Lock is a device you can use to physically fix your TV in place when using it in a public place.

You wrap the Kensington Lock's cable

around a large, immobile object and then attach the lock to the Kensington slot on the back of the TV.

The appearance and locking method may differ from the illustration below depending on the manufacturer.

Refer to the manual provided with the Kensington Lock for additional information on proper use. The Kensington Lock is not supplied by Samsung.

 Please find a “” icon on the rear of the TV. The Kensington slot is beside the “” icon.

To lock the product, follow these steps:

1. Wrap the Kensington Lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington Lock cable.

3. Insert the locking device into the Kensington slot on the product.

4. Lock the lock.

 These are general instructions. For exact instructions, see the User manual supplied with the locking device.

 The locking device has to be purchased separately.

 The location of the Kensington slot may be different depending on the

TV model.

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