



Contact SAMSUNG WORLDWIDE

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

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CHINA	400-810-5858 010-6475 1880	www.samsung.com
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TAIWAN	0800-329-999	www.samsung.com
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Plasma TV

user manual

imagine the possibilities

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

Model _____ Serial No. _____



User Instructions

- **Screen Image retention**

Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

- **Heat on the top of the Plasma TV**

The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

- **The product is making a "cracking" noise.**

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

- **Cell Defects**

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

- **Avoid operating the TV at temperatures below 41°F (5°C)**

- **A still image displayed too long may cause permanent damage to the PDP Panel.**



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

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

- **After-images on the Screen.**

Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images.

To prevent this effect, reduce the "brightness" and "contrast" when displaying still images for a long time.

- **Warranty**

Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty.

Securing the Installation Space

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

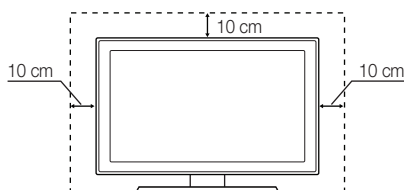
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

When using a stand or wall-mount, use parts provided by Samsung Electronics only.

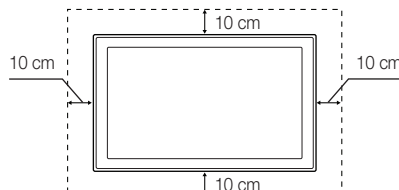
- If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.

The appearance may differ depending on the product.

Installation with a stand.



Installation with a wall-mount.



Contents

Getting Started

4

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

Connections

7

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

Basic Features

9

- 9 How to Navigate Menus
- 9 Channel Menu
- 11 Picture Menu
- 14 Sound Menu
- 15 Setup Menu
- 17 Support Menu

Advanced Features

18

- 18 Connecting to a PC
- 19 Media Play
- 25 Anynet+

Other Information

28

- 28 FM Transmitter Setup
- 30 Analogue Channel Teletext Feature
- 31 Installing the Wall Mount
- 32 Securing the TV to the wall
- 33 Troubleshooting
- 36 Specifications
- 37 Index

Check the Symbol!

TOOLS 



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



Note

Indicates additional information.



One -Touch Button

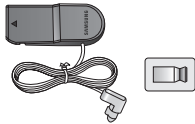
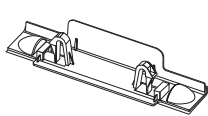
Check here for instructions on how to open the relevant submenu within the OSD (on screen display).

Getting Started

Accessories

- Please make sure the following items are included with your PDP TV. If any items are missing, contact your dealer.
- The items' colours and shapes may vary depending on the models.

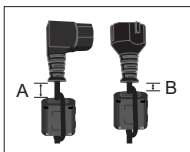
- Remote Control & Batteries (AAA x 2)
- Owner's Instructions
- Warranty Card / Safety Guide (Not available in some locations)
- Cleaning Cloth
- Power Cord



- Blanking Bracket
- FM Transmitter / FM Transmitter Clamp (Not available in some locations)
- Ferrite Core for Power Cord (2EA) (depending on the country)

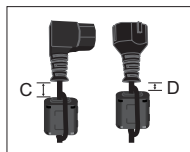
- Ferrite Core for Power Cord: The ferrite cores are used to shield the cables from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug as shown in the figure.

- Distance between the ferrite core and one end of the cord put into the TV set



(depending on the country)

- A : below 50 mm
- B : below 20 mm

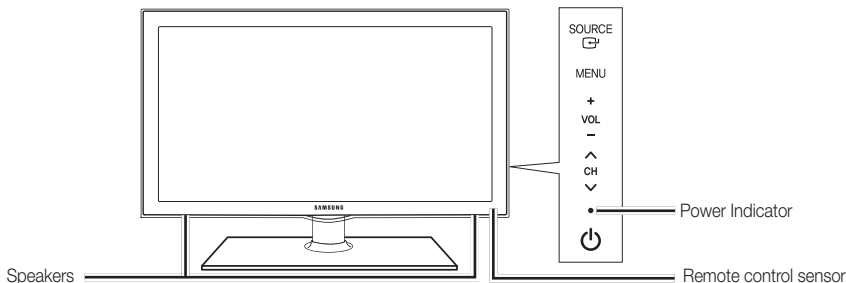


(supplied with 50-inch only in Israel)

- C : 100 ~ 150 mm
- D : below 15 mm

Viewing the Control Panel

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

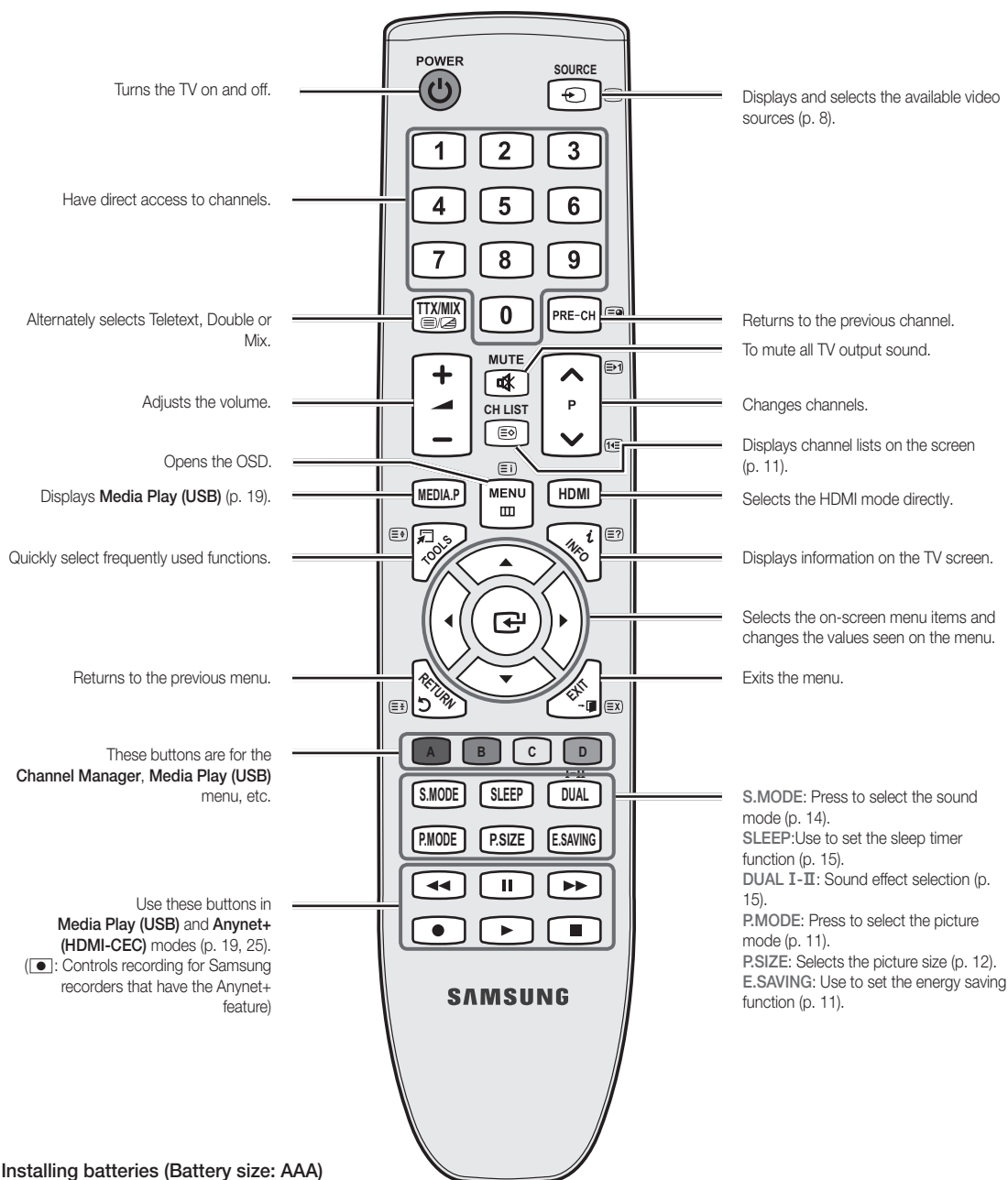


SOURCE	Toggles between all the available input sources. In the on-screen menu, use this button as you would use the ENTER button on the remote control.
MENU	Displays an on-screen menu, the OSD (on screen display) of your TV's features.
-VOL+	Adjusts the volume. In the OSD, use the -VOL+ buttons as you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

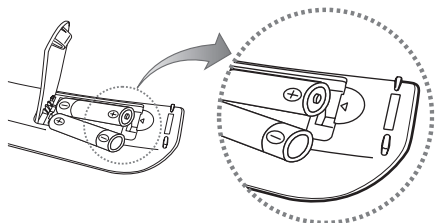
Standby mode

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

Viewing the Remote Control



Installing batteries (Battery size: AAA)



NOTE

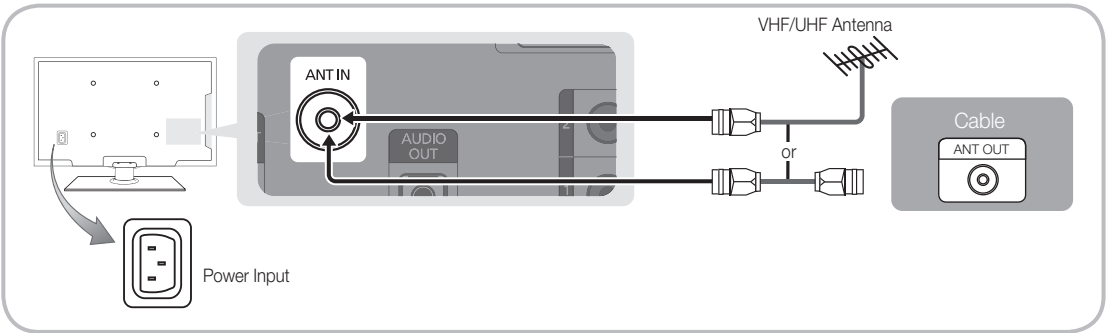
- Use the remote control within 23 feet from TV.
- Bright light may affect the performance of the remote control. Avoid to use nearby special fluorescent light or neon sign.
- The colour and shape may vary depending on the model.

Getting Started

Connecting to an Antenna

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

 **Preset:** Connecting the power cord and antenna.



Plug & Play (Initial Setup)

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

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

1	Selecting a language	Press the ▲ or ▼ button, then press the ENTER  button. Select the desired OSD (On Screen Display) language.	 POWER
2	Selecting Store Demo or Home Use	Press the ◀ or ▶ button, then press the ENTER  button. - Select the Home Use mode. Store Demo Mode is for retail environments. - To return the unit's settings from Store Demo to Home Use (standard): Press the volume button on the TV. When you see the volume OSD, press and hold MENU for 5 sec.	
3	Selecting an area	Press the ENTER  button. Select the appropriate area by pressing the ▲ or ▼ button. Press the ENTER  button to confirm your choice.	
4	Selecting a channel	The channel search will start and end automatically.  Press the ENTER  button at any time to interrupt the memorisation process.  After all the available channels are stored, the message Set current date and time is displayed.	
5	Setting the Clock	Press the ENTER  button. Select the Day , Month , Year , Hour , or Minute by pressing the ◀ or ▶ button. Set the Day , Month , Year , Hour , or Minute by pressing the ▲ or ▼ button.  You can also set the Day , Month , Year , Hour and Minute by pressing the number buttons on the remote control.	
6	Viewing the HD Connection Guide .	The connection method for the best HD screen quality is displayed.	
7	Enjoy your TV.	Press the ENTER  button.	

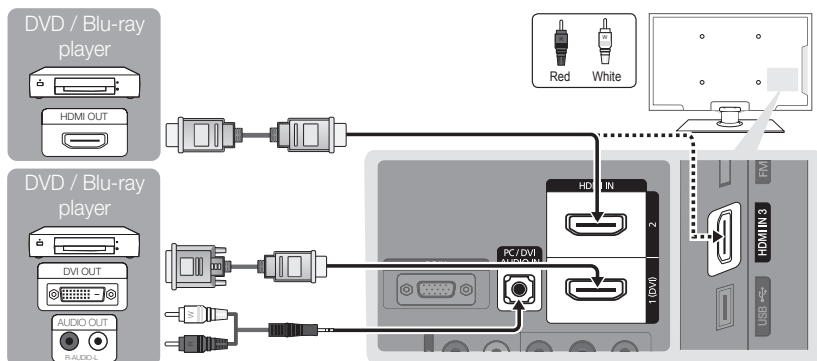
If You Want to Reset This Feature...

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

Connecting to an AV Device

Using an HDMI or HDMI/DVI cable: HD connection (up to 720p/1080i)

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

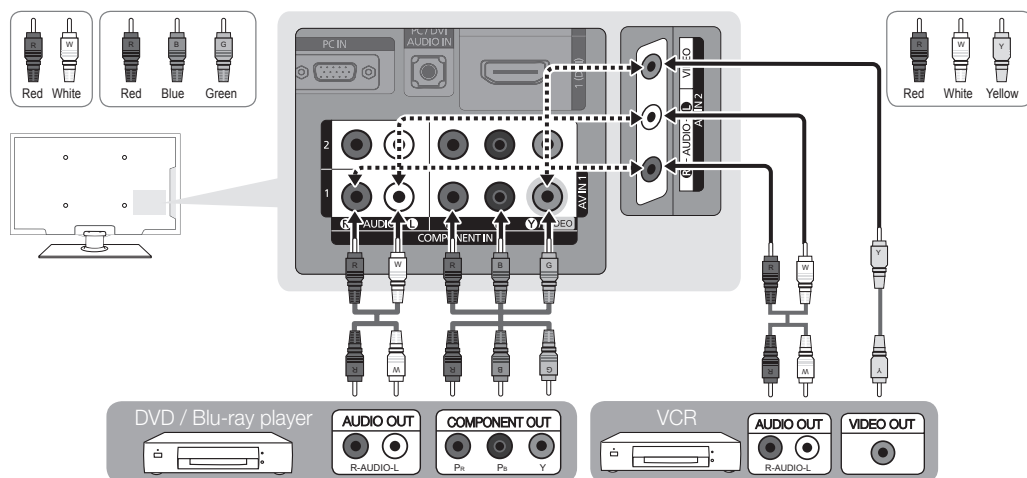


HDMI IN 1(DVI), 2, 3, PC/DVI AUDIO IN

- When using an HDMI/DVI cable connection, you must use the **HDMI IN 1(DVI)** jack. For the DVI cable connection, use a DVI to HDMI cable or DVI-HDMI (DVI to HDMI) adapter for video connection and the **PC/DVI AUDIO IN** jacks for audio.
- If an external device such as a DVD / Blu-ray player / cable box / STB satellite receiver supporting a HDMI versions older than 1.3 is connected, the TV may operate abnormally (e.g. no screen display / no sound / annoying flicker / abnormal colour).
- If there is no sound after connecting an HDMI cable, check the HDMI version of the external device. If you suspect the version is older than 1.3, contact the provider of the device to confirm the HDMI version and request an upgrade.
- It is recommended you purchase an HDMI-certified cable. Otherwise, the screen may appear blank or a connection error may occur.

Using a Component (up to 720p/1080i) or Audio/Video (480i only) Cable

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



COMPONENT IN 1, 2 / AV IN 1, AV IN 2: When connecting to AV IN 1, AV IN 2, the colour of the AV IN 1 [Y/VIDEO] jack (Green) does not match the colour of the video cable (Yellow).

To obtain the best picture quality, the Component connection is recommended over the A/V connection.

Connections

Connecting to an Audio Device

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

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

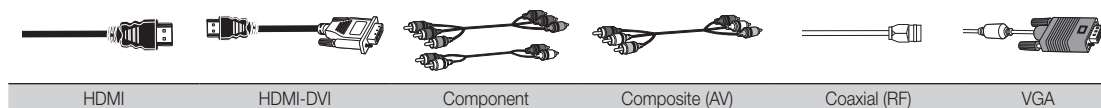
DIGITAL AUDIO OUT (OPTICAL)

- When a Digital Audio System is connected to the **DIGITAL AUDIO OUT (OPTICAL)** jack, decrease the volume of both the TV and the system.
- 5.1 CH (channel) audio is available when the TV is connected to an external device supporting 5.1 CH.
- When the receiver (amplifier or DVD home theatre) is set to on, you can hear sound output from the TV's optical jack. When the TV is receiving a DTV signal, the TV will send 5.1 CH sound to the amplifier or DVD home theatre. When the source is a digital component such as a DVD / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and is connected to the TV via HDMI, only 2 CH audio will be heard from the amplifier or DVD home theatre. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB satellite receiver directly to an amplifier or home theatre.

AUDIO OUT: Connects to the audio input jacks on your amplifier / DVD home theatre.

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

Input Cables (Sold Separately)



Changing the Input Source

Source List

Use to select TV or an external input sources such as a DVD / Blu-ray player / cable box / STB satellite receiver.

- TV / AV1 / AV2 / Component1 / Component2 / PC / HDMI1/DVI / HDMI2 / HDMI3 / USB**

In the **Source List**, connected inputs will be highlighted.

PC always stay activated.



Edit Name

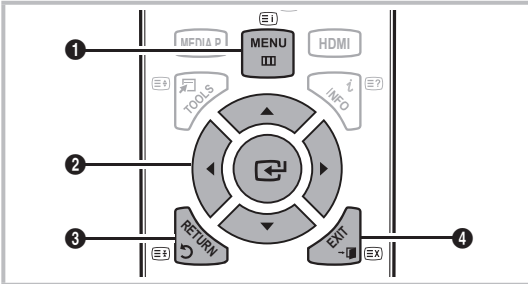
- VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI Devices / TV / IPTV / Blu-ray / HD DVD / DMA:** Name the device connected to the input jacks to make your input source selection easier.

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

Basic Features

How to Navigate Menu

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



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

How to Operate the OSD (On Screen Display)

The access step may differ depending on the selected menu.

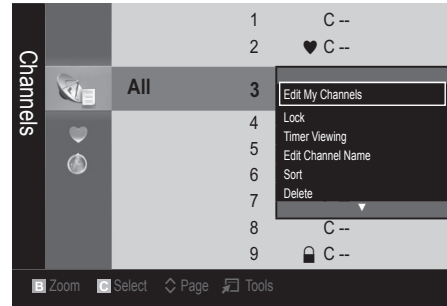
1	MENU	The main menu options appear on the screen: Picture, Sound, Channel, Setup, Input, Application, Support.
2	▲ / ▼	Select an icon with the ▲ or ▼ button.
3	ENTER	Press ENTER to access the sub-menu.
4	▲ / ▼	Select the desired submenu with the ▲ or ▼ button.
5	◀ / ▶	Adjust the value of an item with the ◀ or ▶ button. The adjustment in the OSD may differ depending on the selected menu.
6	ENTER	Press ENTER to complete the configuration.
7	EXIT	Press EXIT .

Channel Menu

Seeing Channels

Channel Manager

Delete or set favourites channels. Select a channel in the **Channels** or **My Channels** or **Scheduled** screen..



- **Channels**: Shows the channel list according to channel type.
- **My Channels**: Shows the group of the channel.
- **Scheduled**: Shows all the currently reserved programmes.
- ✎ Using the colour buttons with the **Channel Manager**
 - **Green (Zoom)**: Enlarges or shrinks a channel number.
 - **Yellow (Select)**: Selects multiple channel lists. Select desired channels and press the Yellow button to set all the selected channels at the same time. The **✓** mark appears to the left of the selected channels.
 - **(Page)**: Move to next or previous page.
 - **(Tools)**: Displays the **Channel Manager** option menu. (The options menus may differ depending on the situation.)

Channel Status Display Icons

Icons	Operations
	A channel selected.
	A channel set as a Favourite.
	A locked channel.
	A reserved programme.

Basic Features

Using Favourite Channels

♥ My Channels

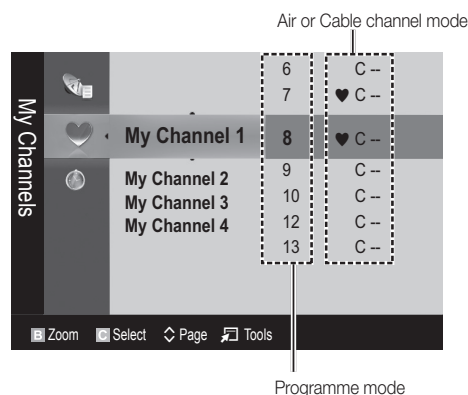
(in **Channel Manager**)

Shows all favourite channels.

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

 The “♥” symbol will be displayed and the channel will be set as a **My Channels**.

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



Returning Channels

Area

You can change the area for channels.

Auto Store

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 **Child Lock** function, the PIN input window appears.

Manual Store

Scans for a channel manually and stores in the TV.

- **Programme, Colour System, Sound System, Channel, Search**: If there is abnormal sound or no sound, reselect the sound standard required.

 Channel mode

- **P** (programme mode): When tuning is complete, the broadcasting stations in your area have been assigned to position numbers from P0 to P99. You can select a channel by entering the position number in this mode.
- **C** (aerial channel mode) / **S** (cable channel mode): These two modes allow you to select a channel by entering the assigned number for each aerial broadcasting station or cable channel.

Editing Channels

Channel Manager Option Menu

(in **Channel Manager**)

1. Select a channel and press the **TOOLS** button.
 2. Edit the channel name using the **Edit Channel Name** menu.
- **Edit Channel Name**: Assign your own channel name.

Other Features

Channel Manager

Channel Manager Option Menu

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

1. Select a channel and press the **TOOLS** button.
2. Select a function and change its settings.

- **Lock / Unlock**: Lock a channel so that the channel cannot be selected and viewed.

 **NOTE**

- This function is available only when the **Child Lock** is set to **On**.
- The PIN input screen appears. Enter your 4-digit PIN, the default of which is “0-0-0-0.” Change the PIN using the **Change PIN** option.

- **Timer Viewing:** You can set a desired channel to be displayed automatically at the reserved time. Set the current time first to use this function.
- **Sort:** This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.
- **Delete:** You can delete a channel to display the channels you want.
- **Select All / Deselect All:** Select all the channels or deselect all the selected channels in the channel manager.



Scheduled

(in **Channel Manager**)

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

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

Channel List

You can see all the channels searched.

CH LIST



Fine Tune

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

- Fine tuned channels are marked with an asterisk “*.”
- To reset the fine-tuning, select **Reset**.

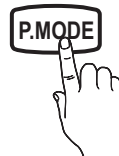
Picture Menu

Changing the Preset Picture Mode

Mode

Select your preferred picture type.

- **Dynamic:** Suitable for a bright room.
- **Standard:** Suitable for a normal environment.
- **Movie:** Suitable for watching movies in a dark room.



Adjusting Picture Settings

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

Your television has several setting options for picture quality control.

NOTE

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

Economical Solutions

Eco Solution

- **Energy Saving (Off / Low / Medium / High / Picture Off)** : This 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 volume button to turn on the screen. Until the screen turns on again, a distorted picture will be displayed for about 4 seconds.

Basic Features

- **Eco Sensor (Off / On):** To enhance your power savings; the picture settings will automatically adapt to the light in the room.

 If you adjust the **Cell Light**, the **Eco Sensor** will be set to **Off**.

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

 If **Eco Sensor** is **On**, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity.

- **No Signal Power Off (Off / 15 min / 30 min / 60 min):** To avoid unnecessary energy consumption, set how long you want the TV to remain on if it's not receiving a signal.

 Disabled when the PC is in power saving mode.

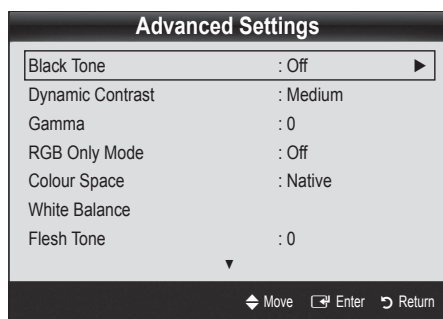
Changing the Picture Options

Advanced Settings

(available in **Standard / Movie** mode)

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

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



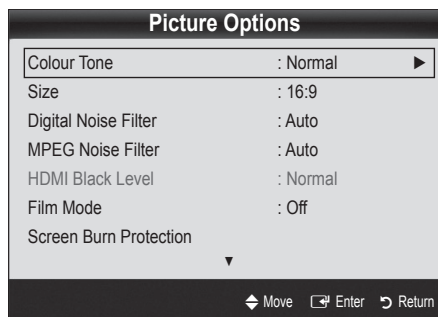
- **Black Tone (Off / Dark / Darker / Darkest):** Select the black level to adjust the screen depth.
- **Dynamic Contrast (Off / Low / Medium / High):** Adjust the screen contrast.
- **Gamma:** Adjust the primary colour intensity.
- **RGB Only Mode (Off / Red / Green / Blue):** You can adjust **Colour** or **Tint (G/R)** of **Red**, **Green** or **Blue** for the picture from an external device (DVD player, home theatre, etc.).
- **Colour Space (Auto / Native):** Adjust the range of colours available to create the image.
- **White Balance:** Adjust the colour temperature for a more natural picture.
R-Offset / G-Offset / B-Offset: Adjust each colour's (red, green, blue) darkness.
R-Gain / G-Gain / B-Gain: Adjust each colour's (red, green, blue) brightness.

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

- **Flesh Tone:** Emphasize pink "Flesh Tone."
- **Edge Enhancement (Off / On):** Emphasize object boundaries.

Picture Options

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



- **Colour Tone (Cool / Normal / Warm1 / Warm2)**

 **Warm1** or **Warm2** will be deactivated when the picture mode is **Dynamic**.

 Settings can be adjusted and stored for each external device connected to an input on the TV.

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

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

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

 Adjusts the **Position** by using **▲**, **▼** buttons.

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

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

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

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

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



 NOTE

- Depending on the input source, the picture size options may vary.
- The available items may differ depending on the selected mode.
- In PC mode, only **16:9** and **4:3** modes can be adjusted.
- Settings can be adjusted and stored for each external device connected to an input on the TV.
- After selecting **Screen Fit** in **HDMI** (1080i / 1080p) or **Component** (1080i / 1080p) mode: Adjusts the **Position** or **Size** by using **▲**, **▼**, **◀**, **▶** button.
- If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

- **Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualisation / Demo):** When the broadcast signal is weak, some static and ghosting may appear. Select one of the options until the best picture is displayed.

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

- **MPEG Noise Filter (Off / Low / Medium / High / Auto):** Reduces MPEG noise to provide improved picture quality.
- **HDMI Black Level (Normal / Low):** Selects the black level on the screen to adjust the screen depth.
 Available only in HDMI mode (RGB signals).
- **Film Mode (Off / Auto1 / Auto2):** Sets the TV to automatically sense and process film signals from all sources and adjust the picture for optimum quality.
 Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).
- **Screen Burn Protection:** To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. The Time setting allows you to programme the time between movement of the picture in minutes.

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

 Optimum condition for pixel shift

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

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

Scrolling: This function removes after-images on the screen by moving all the pixels on the PDP according to a pattern. Use this function when there are remaining after images or symbols on the screen, especially when you displayed a still image on the screen for a long time.

 The after-image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after-images on the screen. If the after-image is not removed after performing the function, repeat the function again.

 Press any key on the remote control to cancel this feature.

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

Picture Reset (OK / Cancel)

Resets your current picture mode to its default settings.

Setting up the TV with Your PC

Set the input source to PC.

Auto Adjustment

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

 Not available when connecting with an HDMI/DVI cable.

Screen

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

Basic Features

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

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

1. Click on "Control Panel" on the Windows start menu.
2. Click on "Appearance and Themes" in the "Control Panel" window and a display dialog-box will appear.
3. Click on "Display" and a display dialog box will appear.
4. Navigate to the "Settings" tab on the display dialog-box.
 - The correct size setting (resolution) [Optimum: 1920 X 1080 pixels]
 - The correct size setting (resolution) [Optimum: 42" : 1024 X 768 / 50" : 1360 X 768 pixels]
 - If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz." Otherwise, just click "OK" and exit the dialog box.

Sound Menu

Changing the Preset Sound Mode

Mode

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



Adjusting Sound Settings

Equalizer

Adjusts the sound mode (standard sound mode only).

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

Sound Systems, Etc.

Virtual Surround (Off / On)

(standard sound mode only)

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

Dialog Clarity (Off / On)

(standard sound mode only)

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

Auto Volume (Off / Normal / Night)

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

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

Speaker Select (External Speaker / TV Speaker)

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

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

SPDIF Output

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

- **Audio Format:** During the reception of a digital TV broadcast, you can select the Digital Audio output (SPDIF) format from the options **PCM** or **Dolby Digital**.
 - ✎ By connecting to 5.1ch speakers in a Dolby Digital setup, maximize your interactive 3D sound experience.

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

FM Transmitter

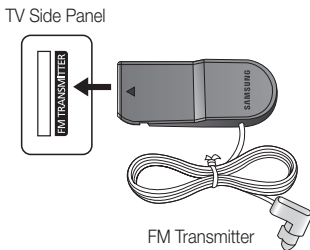
(Not available in some locations)

You can listen to TV sound from FM receiver speaker by transmitting audio signals by FM frequencies.

- ✎ For more detailed information, refer to "FM Transmitter Setup". (p. 28)

Connecting a FM Transmitter

Insert FM Transmitter Module into the Socket which is located at the side panel of TV.



- **FM Transmitter (Off / On):** Turns FM transmitter on/off.
- **FM Frequency:** Sets FM transmitter frequency.

Sound Reset (OK / Cancel)

Reset all sound settings to the factory defaults.

Selecting the Sound Mode

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



	Audio Type	Dual I-II	Default
A2 Stereo	Mono	Mono	Automatic change
	Stereo	Stereo ↔ Mono	
	Dual	Dual I ↔ Dual II	Dual I
NICAM Stereo	Mono	Mono	Automatic change
	Stereo	Mono ↔ Stereo	
	Dual	Mono ↔ Dual I ↖ Dual II ↗	Dual I

- ✎ If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- ✎ Only activated in stereo sound signal.
- ✎ Only available when the **Input** source is set to **TV**.

Setup Menu

Setting the Time

Time

- **Clock:** Setting the clock is for using various timer features of the TV.

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

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

- ✎ You can set the **Day, Month, Year, Hour** and **Minute** directly by pressing the number buttons on the remote control.

Using the Sleep Timer

- **Sleep Timer:** Automatically shuts down the TV after a preset period of time. (Off, 30, 60, 90, 120, 150 and 180 minutes).

- ✎ To cancel **Sleep Timer**, select **Off**.



Setting the On / Off Timer

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

Timer 1

On Time

Inactivate

00

00

Off Time

Inactivate

00

00

Volume

Source

Channel

10

TV

1

Repeat

Once

Sun

Mon

Tue

Wed

Thu

Fri

Sat

Move

Adjust

Enter

Return

Basic Features

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

Volume: Set the desired volume level.

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

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

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

NOTE

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

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

 The  mark indicates the day is selected.

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

Locking Programmes

Security

 The PIN input screen appears before the setup screen.

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

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

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

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

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

Other Features

Menu Language

Set the menu language.

General

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

NOTE

- Precautions and limitations for game mode
 - To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.
 - If you display the TV menu in **Game Mode**, the screen shakes slightly.
- **Game Mode** is not available when the input source is set to TV or PC.
- After connecting the game console, set **Game Mode** to **On** to prevent poor picture quality.
- If **Game Mode** is **On**: **Picture** mode is set to **Standard** and **Sound** mode is set to **Movie**
- Selecting **Reset** after adjusting the equalizer returns the equalizer to its default settings.

■ **Menu Transparency (Bright / Dark):** Set the Transparency of the menu.

■ **Melody (Off / Low / Medium / High):** Set so that a melody plays when the TV is turned on or off.

Picture In Picture (PIP)

PIP

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

NOTE

- For PIP sound, refer to the **Sound Select** instructions.
- If you turn the TV off while watching in PIP mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
- PIP settings

Main picture	Sub picture
Component1	TV, AV2
Component2, HDMI1/DVI, HDMI2, HDMI3, PC	TV, AV1, AV2

- **PIP (Off / On):** Activate or deactivate the PIP function.
- **Source (TV / AV1 / AV2):** You can select a source of the sub-picture.
- **Channel:** Select the channel for the sub-screen.
- **Size (□ / □):** Select a size for the sub-picture.
- **Position (□ / □ / □ / □):** Select a position for the sub-picture.
- **Sound Select (Main / Sub):** You can choose the desired sound (Main / Sub) in PIP mode.

Support Menu

Self Diagnosis

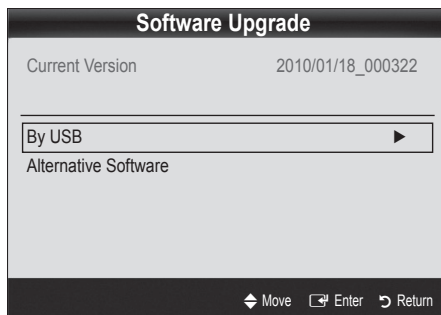
- **Picture Test (Yes / No):** Use to check for picture problems.
- **Sound Test (Yes / No):** Use the built-in melody sound to check for sound problems.
 - ✎ If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu.
 - ✎ The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.
- **Troubleshooting:** If the TV seems to have a problem, refer to this description.
 - ✎ If none of these troubleshooting tips apply, contact the Samsung customer service centre.

Software Upgrade

Software Upgrade can be performed downloading the latest firmware from "www.samsung.com," to a USB memory device.

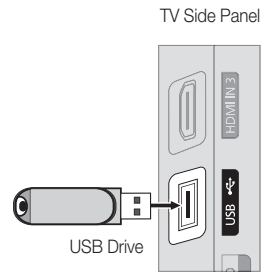
Current Version the software already installed in the TV.

✎ Software is represented as "Year/Month/Day_Version."



Installing the Latest Version

- **By USB:** Insert a USB drive containing the firmware upgrade file, downloaded from "www.samsung.com," into the TV. Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.



- **Alternative Software** (Not available)

HD Connection Guide

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

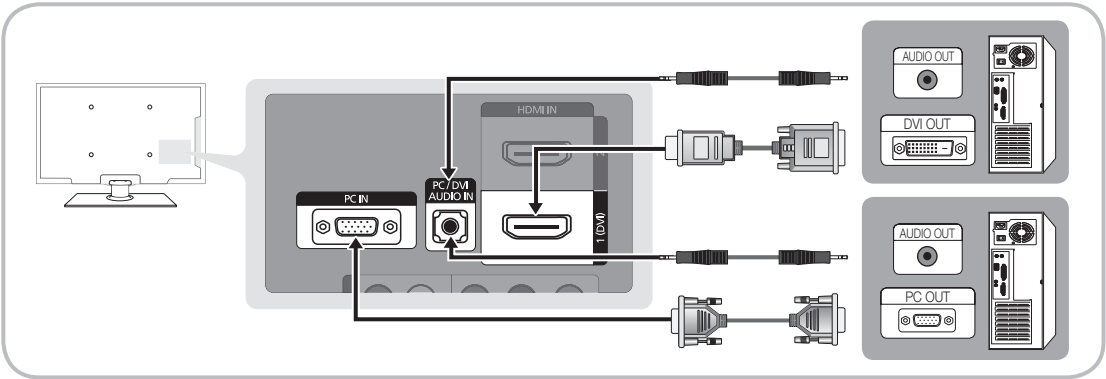
Contact Samsung

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

Advanced Features

Connecting to a PC

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



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

Optimal resolution

- 42" : 1024 X 768 @ 60Hz
- 50" : 1360 X 768 @ 60Hz

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	42"	50"
IBM	640 x 350	31.469	70.086	25.175	+/-	✓	✓
	720 x 400	31.469	70.087	28.322	-/+	✓	✓
MAC	640 x 480	35.000	66.667	30.240	-/-	✓	✓
	832 x 624	49.726	74.551	57.284	-/-	✓	✓
VESA CVT	720 x 576	35.910	59.950	32.750	-/+	✓	✓
	1280 x 720	56.456	74.777	95.750	-/+	✓	✓
VESA DMT	640 x 480	31.469	59.940	25.175	-/-	✓	✓
	640 x 480	37.500	75.000	31.500	-/-	✓	✓
	640 x 480	37.861	72.809	31.500	-/-	✓	✓
	800 x 600	37.879	60.317	40.000	+/+	✓	✓
	800 x 600	46.875	75.000	49.500	+/+	✓	✓
	800 x 600	48.077	72.188	50.000	+/+	✓	✓
	1024 x 768	48.363	60.004	65.000	-/-	✓	✓
	1024 x 768	56.476	70.069	75.000	-/-	✓	✓
	1024 x 768	60.023	75.029	78.750	+/+	✓	✓
	1280 x 720	45.000	60.000	74.250	+/+	✓	✓
VESA GTF	1360 x 768	47.712	60.015	85.500	+/+	✓	✓
	1280 x 720	52.500	70.000	89.040	-/+	✓	✓

NOTE

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

Media Play

MEDIA.P



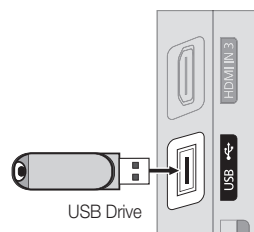
Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device.



Connecting a USB Device

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

TV Side Panel



It might not work properly with unlicensed multimedia files.

Need-to-Know List before using **Media Play (USB)**

- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Media Play only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers (USB HUB are not supported). Devices should be connected directly to the TV's USB port.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the "Not Supported File Format" message is displayed.
- If the files are sorted by Basic View, up to 1000 files can be displayed in each folder.
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation of content, the distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.

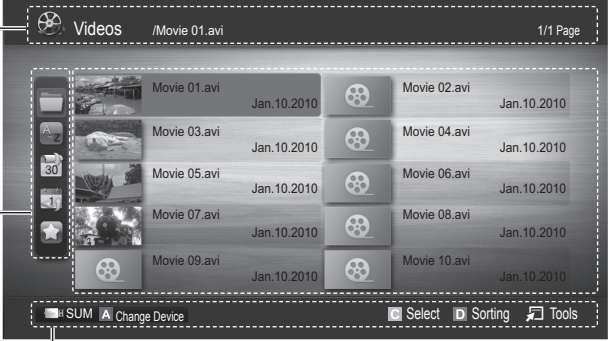
Advanced Features

- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- If the TV has been no input during time set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.
- If a USB extension cable is used, the USB device may not be recognized or the files on the device may not be read.
- If a USB device connected to the TV is not recognized, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
- If a file deleted from the PC is still found when Media Play is run, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

Screen Display

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

 Supports the **View Devices** and **Home** in **Media Play** homepage.



Information:
You can ascertain the selected file name and the number of files and page.

Sort List Section:
Displays sorting standard.

 Sorting standard is different depending on the contents.

File List Section:
You can confirm the files and groups that is sorted by each category.

Operation Buttons

-  **Red (Change Device):** Selects a connected device.
-  **Green (Preference):** Sets the file preference. (not supported in Basic view)
-  **Yellow (Select):** Selects multiple files from file list. Selected files are marked with a symbol.
-  **Blue (Sorting):** Selects the sort list.
-  **Tools:** Displays the option menu.

 Using the **◀** (REW) or **▶** (FF) button, file list can move to next or previous page.

Videos

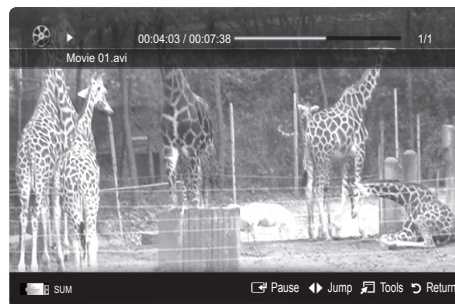
Playing Video

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

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

- Supported Subtitle Formats

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



- Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv	AVI MKV	Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / DTS Core
		XviD	1920x1080	6 ~ 30	8	
		H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.asf	ASF	Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / WMA
		XviD	1920x1080	6 ~ 30	8	
		H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.wmv	ASF	Window Media Video v9	1920x1080	6 ~ 30	25	WMA
*.mp4	MP4	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	MP3 / ADPCM / AAC
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
		XVID	1920x1080	6 ~ 30	8	
*.3gp	3GPP	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	ADPCM / AAC / HE-AAC
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.vro *.vob	VRO VOB	MPEG1	1920x1080	24 / 25 / 30	30	AC3 / MPEG / LPCM
		MPEG2	1920x1080	24 / 25 / 30	30	
*.mpg *.mpeg	PS	MPEG1	1920x1080	24 / 25 / 30	30	AC3 / MPEG / LPCM / AAC
		MPEG2	1920x1080	24 / 25 / 30	30	
		H.264	1920x1080	6 ~ 30	25	
*.ts *.tp *.trp	TS	MPEG2	1920x1080	24 / 25 / 30	30	AC3 / AAC / MP3 / DD+ / HE-AAC
		H.264	1920x1080	6 ~ 30	25	
		VC1	1920x1080	6 ~ 30	25	

Advanced Features

Other Restrictions

NOTE

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

Video Decoder	Audio Decoder
• Supports up to H.264, Level 4.1 • H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. • GMC is not supported. • H.263 is not supported.	• Supports up to WMA 7, 8, 9, STD • WMA 9 PRO does not support 2 channel excess multi channel or lossless audio. • WMA sampling rate 22050Hz mono is not supported.

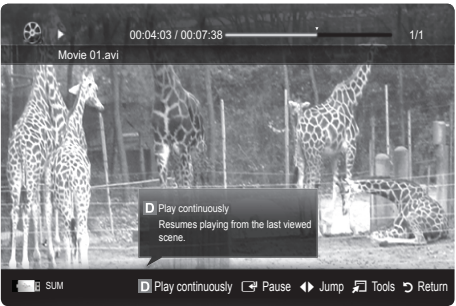
Playing movie file continuously (Resume Play)

If you exit the playing videos function, it can be played later from the point where it was stopped.

1. Select the movie file you want to play continuously by pressing the ◀ or ▶ button to select it from the file list section.
2. Press the ▶ (Play) / ENTER button.
3. Select **Play Continuously** (Resume Play) by pressing the Blue button. The Movie will begin to play from where it was stopped.

The Blue button is available when resuming play.

If the **Cont. movie play help** function is set to **On** in the **Settings** menu, a pop-up message will appear when you resume play a movie file.



Music

Playing Music

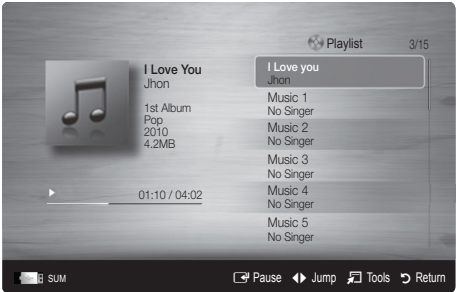
1. Press the ◀ or ▶ button to select **Music**, then press the ENTER button in the **Media Play** menu.
2. Press the ◀/▶/▲/▼ button to select the desired file in the file list.
3. Press the ENTER button or ▶ (Play) button.

During playing the music, you can search using the ◀ and ▶ button.

◀ (REW) and ▶ (FF) buttons do not function during play.

Only displays the files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.

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



Photos

Viewing a Photo (or Slide Show)

1. Press the ◀ or ▶ button to select **Photos**, then press the ENTER  button in the **Media Play** menu.
2. Press the ◀/▶/▲/▼ button to select the desired file in the file list.
3. Press the ENTER  button or ▶ (Play) button.
 - While a photo list is displayed, press the ▶ (Play) / ENTER  button on the remote control to start slide show.
 - All files in the file list section will be displayed in the slide show.
 - During the slide show, files are displayed in order from currently being shown.

 Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.

 The **BGM Mode** cannot be changed until the BGM has finished loading.



Playing the Multiple Files

Playing the selected video/music/photo files

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

NOTE

- The ✓ mark appears to the left of the selected files.
- To cancel a selection, press the Yellow button again.
- To deselect all selected files, press the **TOOLS** button and select **Deselect All**.

3. Press the **TOOLS** button and select **Play Selected Contents**.



Playing the video/music/photo file group

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

Media Play Additional Function

Sorting the file list

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

Category	Operations	Videos	Music	Photos
 Basic View	It shows whole folder. You can view the photo by selecting the folder.	▼	▼	▼
 Title	It sorts and displays the file title in Symbol/Number/Alphabet/Special order.	▼	▼	▼
 Preference	It sorts and displays the file by preference. You can change the file preference in the file list section using the Green button.	▼	▼	▼
 Latest Date	It sorts and shows files by latest date.	▼		▼
 Earliest Date	It sorts and shows files by earliest date.	▼		▼
 Artist	It sorts the music file by artist in alphabetical.		▼	
 Album	It sorts the music file by album in alphabetical order.		▼	
 Genre	It sorts music files by the genre.		▼	
 Mood	It sorts music files by the mood. You can change the music mood information.		▼	
 Monthly	It sorts and shows photo files by month. It sorts only by month (from January to December) regardless of year.			▼

Advanced Features

Videos/Music/Photos Play Option menu

During playing a file, press the **TOOLS** button.

Category	Operations	Videos	Music	Photos
Title	You can move the other file directly.	▼		
Repeat Mode	You can play movie and music files repeatedly.	▼	▼	
Picture Size	You can adjust the picture size for preference.	▼		
Picture Setting	You can adjust the picture setting. (p. 11, 12, 13)	▼		▼
Sound Setting	You can adjust the sound setting. (p. 14, 15)	▼	▼	▼
Subtitle Setting	You can play the video file with Subtitle. This function only works if the subtitles are the same file name as the video file.	▼		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			▼
Slide Show Speed	You can select the slide show speed during the slide show.			▼
Background Music	You can set and select background music when watching a Slide Show.			▼
Zoom	You can zoom into images in full screen mode.			▼
Rotate	You can rotate images in full screen mode.			▼
Information	You can see detailed information about the played file.	▼	▼	▼

Settings

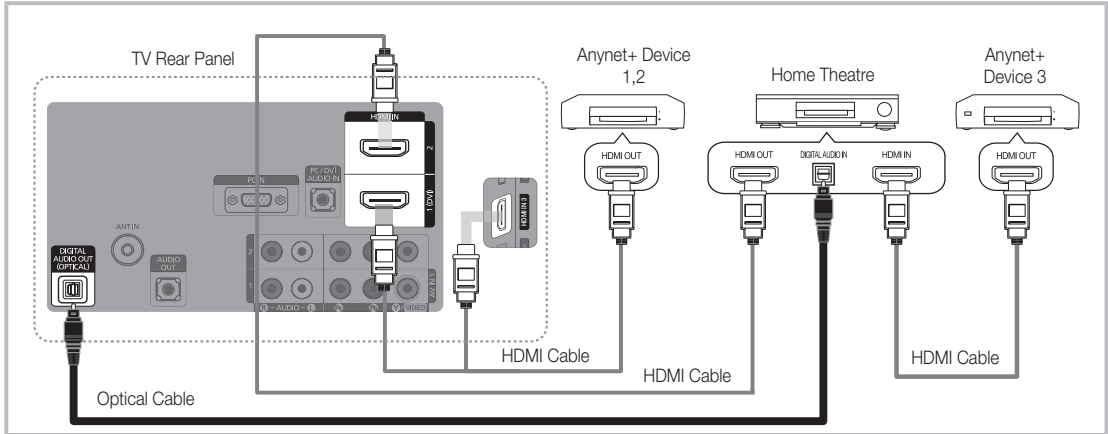
Using the Setup Menu

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

What is Anynet+?

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

To connect to Home Theatre



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

NOTE

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

Advanced Features

Anynet+ Menu

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

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

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

Setting Up Anynet+

■ Setup

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

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

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

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

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

Switching between Anynet+ Devices

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

Recording

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

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

Listening through a Receiver

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

1. Select **Receiver** and set to **On**.

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

 If your receiver supports audio only, it may not appear in the device list.

 The receiver will work when you have properly connected the optical in jack of the receiver to the **DIGITAL AUDIO OUT (OPTICAL)** jack of the TV.

 When the receiver (i.e Home Theatre) is set to **On**, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV (aerial) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the receiver.

NOTE

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

Troubleshooting for Anynet+

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

Other Information

FM Transmitter Setup

(Not available in some locations)

Frequency Configuration

- FM transmitter's frequency must be set differently from any FM radio frequency in the vicinity of the TV in order to achieve good signal receptivity free of radio interference.
- If a TV channel frequency falls within the FM frequency range, the FM transmitter will automatically update its permissible frequency range.
- Identical TV channel and FM transmitter frequency will result in signal interference. To prevent this, the FM transmitter's frequency range is automatically displayed.
- If there is no TV channel frequency within the FM frequency range (83MHz to 108MHz), the entire range from 88.0MHz to 107.9MHz is available for use.

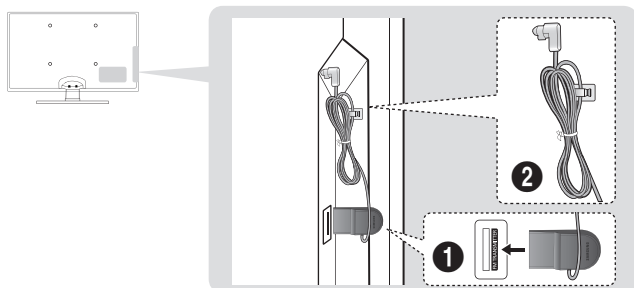
FM Transmitter Installation Guide

The FM transmitter module features an integrated antenna. Antenna signal strength will vary depending on where the antenna is installed and on the performance of the receiver. If you experience poor signal strength, try installing the antenna in one of the methods shown below:

Method 1

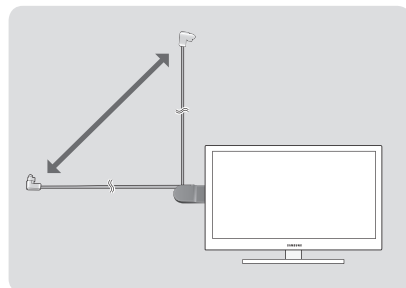
Connect the FM transmitter (fig. ❶), attach the clamp (fig. ❷) and hook the antenna lead to the clamp.

If the reception is inadequate after using "Method 1", we recommend installing the transmitter using "Method 2".



Method 2

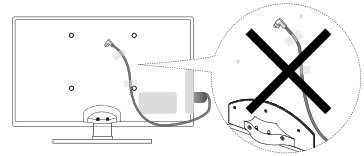
Unwind and position an antenna where the receiver gets best reception.



NOTE

(Not available in some locations)

- Installing the antenna directly on the back of the TV may result in poor signal strength. Allow some room between the TV and the antenna.
- Having the FM transmitter antenna in direct contact with the TV antenna can result in signal interference.
- If the FM Transmitter menu is not enabled, check that the FM transmitter is correctly inserted into the **FM TRANSMITTER** slot.
- To hear audio, transmitted from the TV in FM frequency, on an FM receiver (radio, home theatre, etc.), move the antenna of the FM receiver until the audio is clear.
- If you use an FM receiver (radio, home theatre, etc.), you can enjoy quality audio transmitted from the TV via FM frequency if your person is within 10 m of the receiver.
- Be sure to use the provided FM transmitter. Otherwise, the product may be damaged.
- Avoid using the provided FM transmitter with other products.
- Adjust the frequency of the FM receiver (radio, home theatre, etc.) to the frequency of the FM transmitter on the TV. If the frequency of the receiver does not match, the sound will not be heard.
- Adjust the volume of the FM receiver to an appropriate level.
- When the TV is turned off, the FM receiver (radio, home theatre, etc.) emits static noise.
- Due to interference from other electronics, which is a weakness of wireless communications, you may hear sound stuttering or static.



Supported FM Transmitter formats

Name	SPEC	
	Normal	88.0MHz ~ 107.9MHz
Frequency Rang	Match the TV Frequency	Automatic range setting (In 88.0MHz ~107.9MHz)
Transfer distance	Maximum 5m : Depend on Antenna position and receiver quality	

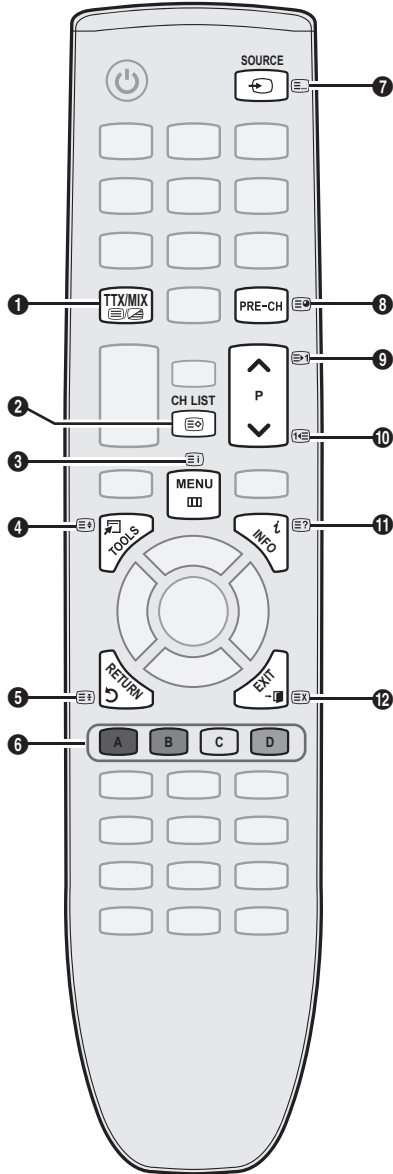
Other Information

Analogue Channel Teletext Feature

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

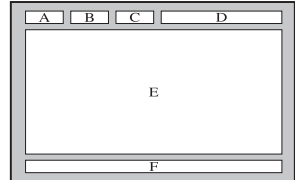
 You can change Teletext pages by pressing the numeric buttons on the remote control.

- 1  (Teletext on/mix): Activate the Teletext mode after selecting the channel providing the Teletext service. Press it twice to overlap the Teletext mode with the current broadcasting screen.
- 2  (store): Store the Teletext pages.
- 3  (index): Display the index (contents) page at any time while you are viewing Teletext.
- 4  (size): Display the double-size letters on the upper half of the screen. For the lower half of the screen, press it again. To display the normal screen, press it once again.
- 5  (hold): Hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.
- 6 Colour buttons (red/green/ yellow/ blue): If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.
- 7  (mode): Select the Teletext mode (LIST/ FLOF).
If you press this button in the LIST mode, the mode is switched into the List save mode. In the List save mode, you can save a Teletext page into list using the  (store) button.



- 8  (sub-page): Display the available sub-page.
- 9  (page up): Display the next Teletext page.
- 10  (page down): Display the previous Teletext page.
- 11  (reveal): Display the hidden text (answers to quiz games, for example). To display the normal screen, press it again.
- 12  (cancel): Display the current broadcast when searching for a page.

Typical Teletext page

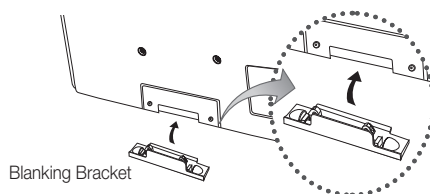


Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

Installing the Wall Mount

Assembling the Blanking Bracket

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



Installing the Wall Mount Kit

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

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

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

Wall Mount Kit Specifications (VESA)

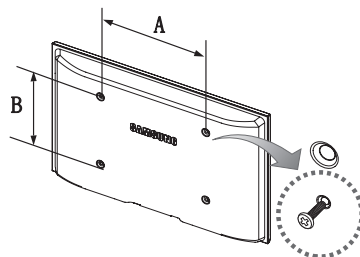
The wall mount kit is not supplied, but sold separately.

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

NOTE

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

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



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



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

Other Information

Securing the TV to the wall



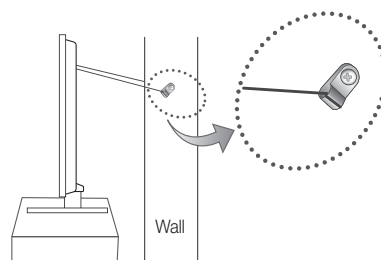
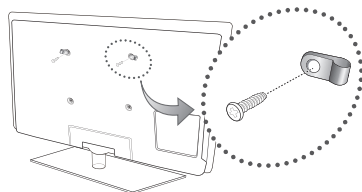
Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided in the included Safety Flyer.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

To Avoid the TV from Falling

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

NOTE

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



Troubleshooting

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

Issues	Solutions and Explanations
Picture Quality	First of all, please perform the Picture Test and confirm that your TV is properly displaying test image. (go to MENU - Support - Self Diagnosis - Picture Test) (p. 17) If the test image is properly displayed, the poor picture may caused by the source or signal.
The TV image does not look as good as it did in the store.	• If you have an analogue cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. • Cable/Satellite subscribers: Try HD stations from the channel line up. • Antenna connection: Try HD stations after performing Auto programme.  Many HD channels are up scaled from SD(Standard Definition) contents. • Adjust the Cable/Set top box video output resolution to 1080i or 720p. • Make sure you are watching the TV at the minimum recommended distance based on the size and definition of the signal.
The picture is distorted: macro block error, small block, dots, pixelization	• Compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies. • Low signal level or bad quality can cause picture distortion. This is not a TV issue.
Colour is wrong or missing.	• If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.
There is poor colour or brightness.	• Adjust the Picture options in the TV menu. (go to Picture mode / Colour / Brightness / Sharpness) (p. 11) • Adjust Energy Saving option in the TV menu. (go to MENU - Picture - Eco Solution - Energy Saving) (p. 11) • Try resetting the picture to view the default picture settings. (go to MENU - Picture - Picture Reset) (p. 13)
There is a dotted line on the edge of the screen.	• If the picture size is set to Screen Fit, change it to 16:9 (p. 12). • Change cable/set top box resolution.
Picture is black and white.	• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.
When changing channels, the picture freezes or is distorted or delayed.	• If connected with a cable box, please try to reset the cable box. Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes. • Set the output resolution of the cable box to 1080i or 720p.
Sound Quality	First of all, please perform the Sound Test to confirm that your TV audio is properly operating. (go to MENU - Support - Self Diagnosis - Sound Test) (p. 17) If the audio is OK, the sound problem may caused by the source or signal.
There is no sound or the sound is too low at maximum volume.	• Please check the volume the of external device connected to your TV.
The picture is good but there is no sound.	• Set the Speaker Select option to TV Speaker in the sound menu (p. 14). • If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV. • If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV). • If you are using a DVI to HDMI cable, a separate audio cable is required. • If your TV has a headphone jack, make sure there is nothing plugged into it.
The speakers are making an inappropriate noise.	• Check the cable connections. Make sure a video cable is not connected to an audio input. • For antenna or Cable connections, check the signal strength. Low signal level may cause sound distortion.

Other Information

Issues	Solutions and Explanations
No Picture, No Video	
The TV won't turn on.	• Make sure the AC power cord is securely plugged in to the wall outlet and the TV. • Make sure the wall outlet is working. • Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "Remote control does not work" below.
The TV turns off automatically.	• Ensure the Sleep Timer is set to Off in the Setup menu (p. 15). • 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 picture/Video.	• Check cable connections (remove and reconnect all cables connected to the of TV and external devices). • Set your external devices' (Cable/Set top Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. • Make sure your connected devices are powered on. • Be sure to select the TV's correct source by pressing the SOURCE button on the TV remote.
RF(Cable/Antenna) Connection	
The TV is not receiving all channels.	• Make sure the Antenna cable is connected securely. • Please try Plug & Play (Initial setup) to add available channels to the channel list. Go to MENU - Setup - Plug & Play (Initial setup) and wait for all available channels to be stored (p. 6). • Verify the Antenna is positioned correctly.
The picture is distorted: macro block error small block, dots, pixelization	• Compression of video contents may cause picture distortion, especially with fast moving pictures such as sports and action movies. • A low signal can cause picture distortion. This is not a TV issue.
PC Connection	
A "Mode Not Supported" message appears.	• Set your PC's output resolution and frequency so they match the resolutions supported by the TV (p. 18).
"PC" is always shown on the source list, even if a PC is not connected.	• This is normal; "PC" is always shown on the source list, regardless of whether a PC is connected.
The video is OK but there is no audio.	• If you are using a HDMI connection, check the audio output setting on your PC.
Others	
The remote control does not work.	• Replace the remote control batteries with the poles (+/-) in the right direction. • Clean the sensor's transmission window on the remote. • Try pointing the remote directly at the TV from 5~6 feet away.
Plasma TV is making humming noise.	• Plasma TVs typically make a soft humming sound. This is normal. It's caused by the electrical charges that are used to create the images on the screen. • If the humming sound is loud, you may have set the brightness on the TV too high. Try setting the brightness lower. • You can also have loud humming if the back of your Plasma TV is too close to a wall or other hard surface. Also try rerouting your connection cables. • Improper installation of wall mount can create excessive noise.
Image Retention (Burn In) Issue.	• To minimize the possibility of screen burn, this unit is equipped with screen burn reduction technology. Pixel Shift technology enables you to set picture movement up/ down (Vertical Line) and side to side (Horizontal Dot).

Issues	Solutions and Explanations
The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.	Programme the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set user manual for the SAMSUNG TV code.
A "Mode Not Supported" message appears.	Check the supported resolution of the TV, and adjust the external device's output resolution accordingly. Refer to the resolution settings on page 18 of this manual.
There is a plastic smell from the TV.	This smell is normal and will dissipate over time.
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.
There are difficulties assembling the stand base.	Make sure the TV is placed on a flat surface. It is necessary to use magnetized screw driver if you cannot remove the screws from the TV.
The channel menu is greyed out. (unavailable)	The Channel menu is only available when the TV source is selected.
Your settings are lost after 30 minutes or every time the TV is turned off.	If the TV is in the 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 Plug & Play (Initial setup) procedure. Press the SOURCE button to select TV mode, and go to MENU → Setup → Plug & Play (Initial setup) → ENTER  (p. 6)
You have intermittent loss of audio or video.	- Check the cable connections and reconnect them. - Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.
You see small particles when you look closely at the edge of the frame of the TV.	This is part of the product's design and is not a defect.
The PIP menu is not available.	PIP functionality is only available when you are using a HDMI, PC or components source (p. 16).
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.



Some of above pictures and functions are available at specific models only.

Other Information

Specifications		
Environmental Considerations		
Operating Temperature	10°C to 40°C (50°F to 104°F)	
Operating Humidity	10% to 80%, non-condensing	
Storage Temperature	-20°C to 45°C (-4°F to 113°F)	
Storage Humidity	5% to 95%, non-condensing	
Stand Swivel (Left / Right)	-20° ~ 20°	
Model Name	PS42C450 PS42C451	PS50C450 PS50C451
Screen Size	42 inches	50 inches
Sound (Output)	10W x 2	
Dimensions (WxDxH)		
Body	1031 x 70.9 x 631.0 mm	1202.5 x 69.5 x 720.5 mm
With stand	1031 x 284.5 x 695.5 mm	1202.5 x 284.5 x 788 mm
Weight		
Without Stand	17.5 kg	23.4 kg
With Stand	19.5 kg	25.4 kg
Panel native	1024 X 768 @ 60Hz	1360 X 768 @ 60Hz

 Design and specifications are subject to change without prior notice.

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

Licence



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

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content.

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

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

Open Source Licence Notice

In the case of using open source software, Open Source Licences are available on the product menu.

Index

A

Amplify	14
Anynet+	25
AUDIO OUT	8
Auto Adjustment	13
Auto Volume	14

B

Background Music	24
Balance L/R	14
Basic View	23
Batteries	5
Black Tone	12
Blanking Bracket	31
Brightness	11

C

Change PIN	16
Channel Menu	9
Clock	15
Colour Tone	12
Component	7
Connecting to a PC	18
Connecting to an Audio Device	8

D

DIGITAL AUDIO OUT	8, 25
DivX® VOD	24
D-sub	18
Dynamic	11
Dynamic Contrast	12

E

Eco Sensor	12
Edit Name	8
Editing Channels	10
Energy Saving	11
Equalizer	14
External Speaker	14

F

Favourite Channel	10
Film Mode	13
Fine Tune	11
Flesh Tone	12
FM Transmitter	15
Frequency	18

H

HDMI	7, 25
Home Theatre	8, 25

I

Installation Space	2
--------------------	---

L

Language	16
Licence	36
Lock	10

M

Media Play	19
Melody	16
Menu Transparency	16
Music	22

N

Navigate	9
----------	---

O

Optimal resolution	18
--------------------	----

P

Photos	23
Picture Size	12, 24
PIP (Picture in Picture)	16
Plug & Play	6
Power Indicator	4

R

Receiver	27
Recording	26
Remote Control	5
Repeat Mode	24
RGB Only Mode	12
Rotate	24

S

Select All	11
Self Diagnosis	17
Sharpness	11
Sleep Timer	15
Slide Show	23
Software Upgrade	17
Source List	8
Speaker Select	14
Specifications	36
Standby mode	4
Symbol	3

T

Timer	15
Title	23
Tools	3
Troubleshooting	33
TV Speaker	14

U

USB Drive	17, 19
-----------	--------

V

VCR	7
Video Formats	21
Videos	21
Virtual Surround	14
Volume	4

W

Wall Mount	31
Warm	12
White Balance	12

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