

SAMSUNG LED TV user manual

SERIES 5000

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

Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 image format, stock or news bars at screen bottom etc.) on the screen. Constant displaying of still pictures can cause ghosting of LED screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout, refer to proper user manual section for details.

Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation. Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

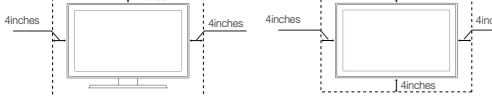
When using a stand or wall-mount, use parts provided by Samsung Electronics only.

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

The appearance may differ depending on the product.

Be careful when you contact the TV because some parts can be somewhat hot.

Installation with a stand. Installation with a wall-mount.



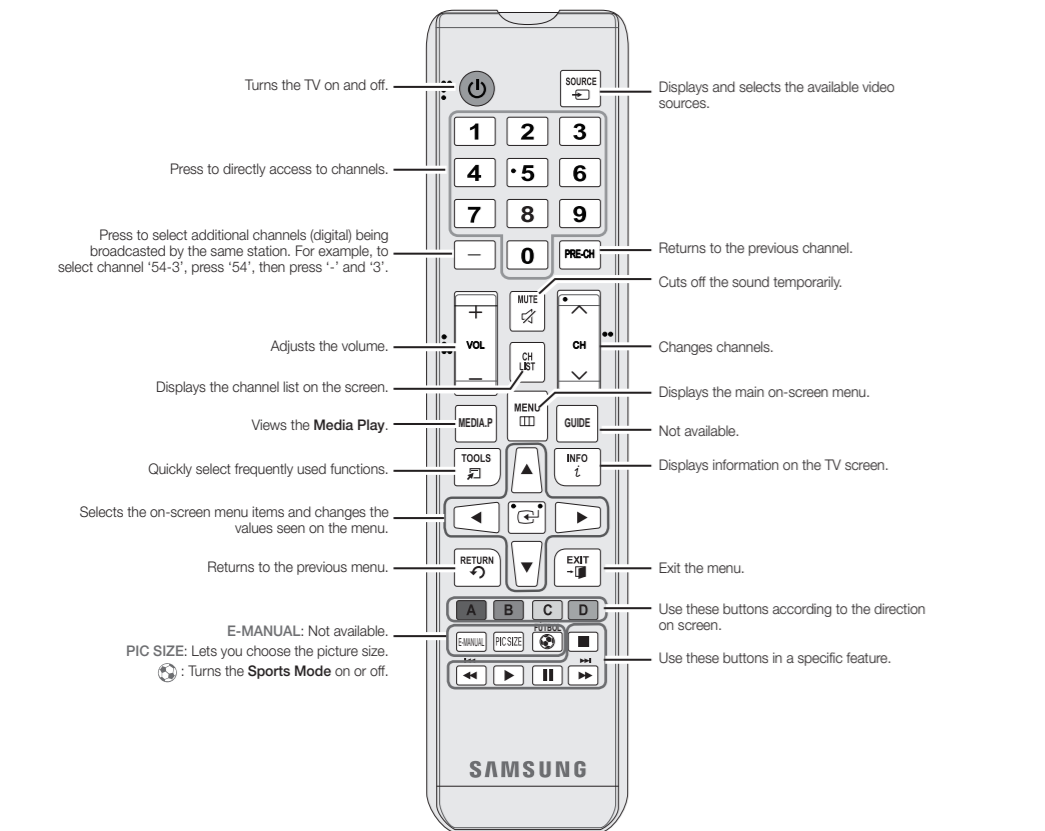
Country	Customer Care Center	Web Site
MEXICO	01-800-SAMSUNG (726-7864) www.samsung.com/mx/support	
Direccion: General Mariano Escobedo 476 Piso 8 Col. Arcos Desaparran Miguel Hidalgo, Distrito Federal CP 11590		
ARGENTINE	0800-555-SAMSUNG (0800-555-7267) www.samsung.com/ar/support	
URUGUAY	000-405-437-33 www.samsung.com/latin_support (Spanish)	
PARAGUAY	009-800-542-0001 www.samsung.com/latin_support (Spanish)	
BRAZIL	0800-124-421 (Demais cidades 9 regiores) 004-0000 (Capitais e grandes centros) www.samsung.com/br/support	
CHILE	800-SAMSUNG(726-7864) www.samsung.com/cl/support	
BOLIVIA	800-10-7260 www.samsung.com/bo/support	
COLOMBIA	Bogotá 609 12 72 Gratis desde cualquier parte del país 01 800 112 112 9 desde su celular #SAM7262 www.samsung.com/co/support	
COSTA RICA	0-800-507-7267 0-800-11-SAMSUNG (726-7864) www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
DOMINICAN REPUBLIC	1-800-751-2676 www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
ECUADOR	1-800-10-7267 1-800-SAMSUNG (726-6786) www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
EL SALVADOR	800-8225 800-0726-7864 www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
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HONDURAS	800-2791-9267 800-2791-9111 www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
JAMAICA	1-800-234-7267 1-800-SAMSUNG (726-7864) www.samsung.com/latin_en/support (English)	
NICARAGUA	001-800-5077267 www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
PANAMA	800-7267 800-0101 www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
PERU	0800-777-08 www.samsung.com/pe/support	
PUERTO RICO	1-800-682-3180 www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864) www.samsung.com/latin_support (Spanish) www.samsung.com/latin_en/support (English)	
VENEZUELA	0-800-SAMSUNG (726-7864) www.samsung.com/ve/support	

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Remote Control

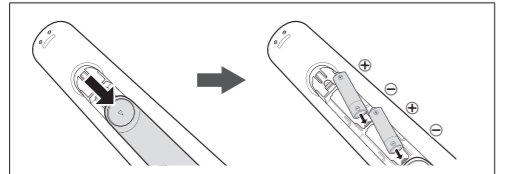


The button names above may differ from the actual names. Some buttons on the remote control may not be available. This remote control has Braille points on the Power, Channel, Volume, and Enter buttons and can be used by visually impaired persons.

Display Modes (HDMI/DVI Input)

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)	1920 x 1080
ISM	640 x 350	31.469	70.086	25.175	-/+	✓
	720 x 400	31.469	70.087	28.322	-/+	✓
	640 x 480	35.000	66.667	30.240	-/+	✓
	832 x 624	49.726	74.551	57.284	-/+	✓
MAC	1152 x 870	66.661	75.062	100.000	-/+	✓
	640 x 480	31.469	70.086	25.175	-/+	✓
	640 x 480	37.861	72.809	31.500	-/+	✓
	640 x 480	37.500	75.000	31.500	-/+	✓
	800 x 600	37.879	60.317	40.000	+/+	✓
	800 x 600	48.077	72.188	50.000	+/+	✓
	800 x 600	46.875	75.000	49.500	+/+	✓
	1024 x 768	48.363	60.004	65.000	-/+	✓
	1024 x 768	50.476	70.089	75.000	-/+	✓
	1024 x 768	60.023	75.029	78.750	+/+	✓
VESA DMT	1152 x 864	67.500	75.000	108.000	+/+	✓
	1280 x 720	45.000	60.000	74.250	+/+	✓
	1280 x 800	48.702	69.810	83.500	-/+	✓
	1280 x 1024	63.981	60.020	108.000	+/+	✓
	1280 x 1024	79.976	75.025	135.000	+/+	✓
	1366 x 768	47.712	59.790	85.500	+/+	✓
	1440 x 900	53.985	59.987	105.500	-/+	✓
	1600 x 900PFR	60.000	60.000	108.000	+/+	✓
	1680 x 1050	65.290	59.954	146.250	+/+	✓
	1920 x 1080	67.500	60.000	148.500	+/+	✓

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 use when nearby fluorescent lights or neon signs.
- The Color and shape may vary depending on the model.

Warning! Important Safety Instructions

Please read the safety instructions below before installing and using the product.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

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

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not cover the slots and openings with a cloth or other materials.
 - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
 - Do not place this apparatus in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place a vessel containing water (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.
- Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus uses batteries. In your community, there might be regulations that require you to dispose of these batteries properly to protect the environment. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords, or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at the plug end, where connected to adaptors, and at the point where they exit from the apparatus.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply (depending on the model).
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
 - Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat, or cause the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances or where it will operate for 24 hours a day such as in an airport, a train station, etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
 - An improper ground may cause electric shock or equipment damage. (Class I Equipment only)
- To turn off the apparatus completely, you must pull the power plug out of the wall socket. Consequently, the power plug should be readily accessible at all times.
- Do not allow children to hang onto the product.
- Store the accessories (batteries, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky shelf, a slanted floor, or a location exposed to vibration.
- Do not drop or impart a shock to the product. If the product is damaged, disconnect the power cord and contact a service center.
- To clean the product, unplug the power cord from the power outlet and wipe the product using a soft cloth dipped in a small amount of water. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the appearance or erase the printing on the product.
- Do not expose the apparatus to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble, or overheat the batteries.
- There is a danger of explosion if you replace the batteries with the wrong type of battery. Replace only with the same or equivalent type.
- WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

Channel Menu

- **Seeing Channels**
- **Clear Scrambled Channel**
 - This function filters out scrambled channels after Auto Program is completed. This process may take up to 20-30 minutes.
 - Press the ENTER button to stop the Clear Scrambled Channel.
 - This function is only available in Cable mode.
- **Channel List**
 - Channel List Option Menu
 - Channel List → (TOOLS)
 - Add / Delete: Delete or add a channel to display the channels you want.
 - All deleted channels will be shown on the All Channels menu.
 - A gray-colored channel indicates the channel has been deleted.
 - The Add menu only appears for deleted channels.
 - Delete a channel from the Added Channels or Favorite menu in the same manner.
 - Add to Favorite / Delete from Favorite (TOOLS): Set channels you watch frequently as Favorites.
 - Timer Viewing: You can set a desired channel to be displayed automatically at the set time, even when you are watching another channel. Set the current time first to use this function.
 - Only memorized channels can be reserved.
 - Reserved programs will be displayed in the Programmed menu.
 - When a digital channel is selected, press the (Next Program) button to view the digital program. If you select the ENTER (Schedule) button on the next program, you can set Timer Viewing directly.
 - Channel Name Edit: (analog channels only) Assign your own channel name.
 - Select All: Select all the channels in the channel list.
 - Deselect All: Deselect all the selected channels.
 - You can only select Deselect All when one or more channels are selected.
 - Auto Program: Scans for a channel automatically and stores in the TV.
 - Programmed (in Channel List)
 - Channel List → Programmed → (TOOLS)
- **Memorizing channels**
- **Antenna (Switch to Cable / Switch to Air (TOOLS))**
 - Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

- **Auto Program**
 - When selecting the Cable TV system: Selects the cable system. STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal source has been selected.
 - After all the available channels are stored, it starts to remove scrambled channels. The Auto Program menu then reappears.
 - Press the ENTER button to stop the channel store during Auto Program.
- **How to Stop Auto Programming**
 1. Press the ENTER button.
 2. A message will ask Stop Auto Program?. Select Yes by pressing the < or > button.
 3. Press the ENTER button.

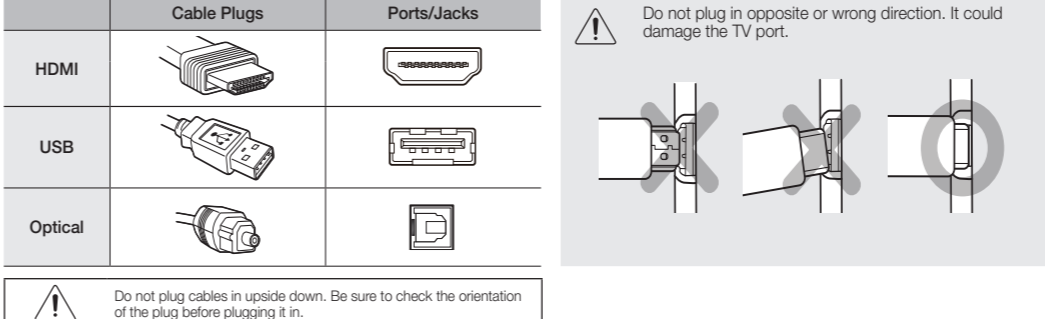
- **Other Features**
- **Clear Scrambled Channel**
 - This function filters out scrambled channels after Auto Program is completed. This process may take up to 20-30 minutes.
 - Press the ENTER button to stop the Clear Scrambled Channel.
 - This function is only available in Cable mode.
- **Channel List**
 - Channel List Option Menu
 - Channel List → (TOOLS)
 - Add / Delete: Delete or add a channel to display the channels you want.
 - All deleted channels will be shown on the All Channels menu.
 - A gray-colored channel indicates the channel has been deleted.
 - The Add menu only appears for deleted channels.
 - Delete a channel from the Added Channels or Favorite menu in the same manner.
 - Add to Favorite / Delete from Favorite (TOOLS): Set channels you watch frequently as Favorites.
 - Timer Viewing: You can set a desired channel to be displayed automatically at the set time, even when you are watching another channel. Set the current time first to use this function.
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 - Reserved programs will be displayed in the Programmed menu.
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 - Auto Program: Scans for a channel automatically and stores in the TV.
 - Programmed (in Channel List)
 - Channel List → Programmed → (TOOLS)
- **Antenna (Switch to Cable / Switch to Air (TOOLS))**
 - Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

- **Channel Mode**
 - Change the channel mode directly between Added Channels and Favorite Channels.
 - The Favorite Channels is enabled only when you set Add to Favorite.

Getting Started

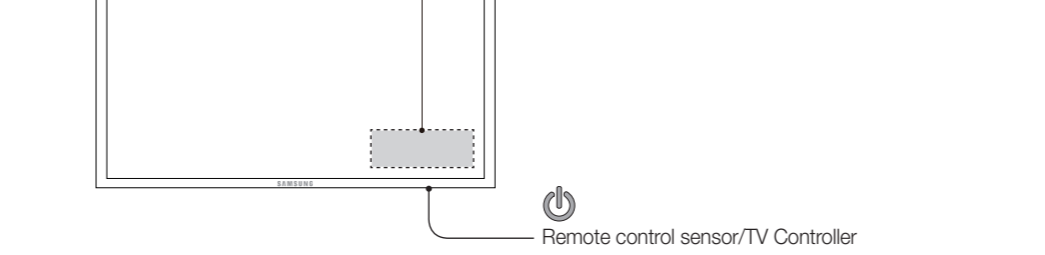
- Accessories
 - Remote Control & Batteries (AAA x 2)
 - Power Cord
 - Warranty Card / Regulatory Guide
 - Owner's Instructions
- Input Cables (Sold Separately)
 - Audio
 - Composite (AV)
 - Component
 - Coaxial (RF)
 - HDMI
 - HDMI-DVI

Make sure you have the correct cable before plugging it in. Illustrations of common plugs and jacks are shown below.



TV Controller

- The TV's Controller on the bottom right side of the TV, lets you control the TV without the remote control.
- Turns the TV on or off.
- Changes channels.
- Adjusts the volume.
- Displays and selects the available video sources.



- The product color and shape may vary depending on the model.
- You cannot input the numbers by pressing the TV's controller.
- If you press it first, the control menu appears. You can select the function by pressing and holding the TV's controller.
- With the TV's Controller, you cannot perform other operations except for turning the TV on or off, changing the channel, adjusting the volume, and switching the input source.

Plug & Play (Initial Setup)

When you turn the TV on for the first time, a sequence of screens and on-screen prompts will assist you in configuring the TV's basic settings. Press the POWER button. Plug & Play is available only when the Input source is set to TV. Set the initial setup following instructions that the TV guides. Connecting the power cord and antenna. (refer to 'Connections')

Fine Tune

- (analog 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.
 - Fine tuned channels that have been saved are marked with an asterisk ** on the right-hand side of the channel number in the channel banner.
 - To reset the fine-tuning, select Reset.
- Digital Clean View: If the broadcast signal received by your TV is weak, you can activate the Digital Clean View feature to reduce any static and ghosting that may appear on the screen.
 - When the signal is weak, try other options until the best picture is displayed.
- HDMI Black Level: Selects the black level on the screen to adjust the screen depth.
 - Available only in HDMI mode (RGB signals).
- Film Mode: Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.
 - Available in AT, DTV(Interface), AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).
- Motion Lighting (Off / On): Reduce power consumption by brightness control adapted motion.
 - Available in Standard mode only.

Picture Menu

- Mode (TOOLS)
 - Select your preferred picture type.
 - When connecting a PC, you can only select Entertain and Standard.
 - Dynamic: Suitable for a bright room.
 - Standard: Suitable for a normal environment.
 - Movie: Suitable for watching movies in a dark room.
 - Entertain: Suitable for watching movies and games.
 - Only available when connecting a PC.
- Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)
 - Your television has several setting options for picture quality control.
 - When connecting a PC, you can only make changes to Backlight, Contrast, Brightness and Sharpness.
- Picture Options
 - When connecting a PC, you can only make changes to the Color Tone, Size, and HDMI Black Level.
 - Color Tone: Cool makes the picture bluer (cooler), Warm make the picture redder (warmer).
 - 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.
 - The menu is deactivated, when the H. 264 (1080p) DTV is being played.
 - 16:9: Sets the picture to 16:9 wide mode.
 - Zoom1: Use for moderate magnification.
 - Zoom2: Use for a stronger magnification.
 - Wide Fit: Enlarges the aspect ratio of the picture to fit the entire screen.
 - 4:3: Sets the picture to basic (4:3) mode.
 - Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which are not covered by the warranty.
 - Screen Fit (DTV) Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.
 - HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)
 - Settings can be adjusted and stored for each external device you have connected to an input on the TV.
 - Picture Sizes available by Input Source:

Sound Menu

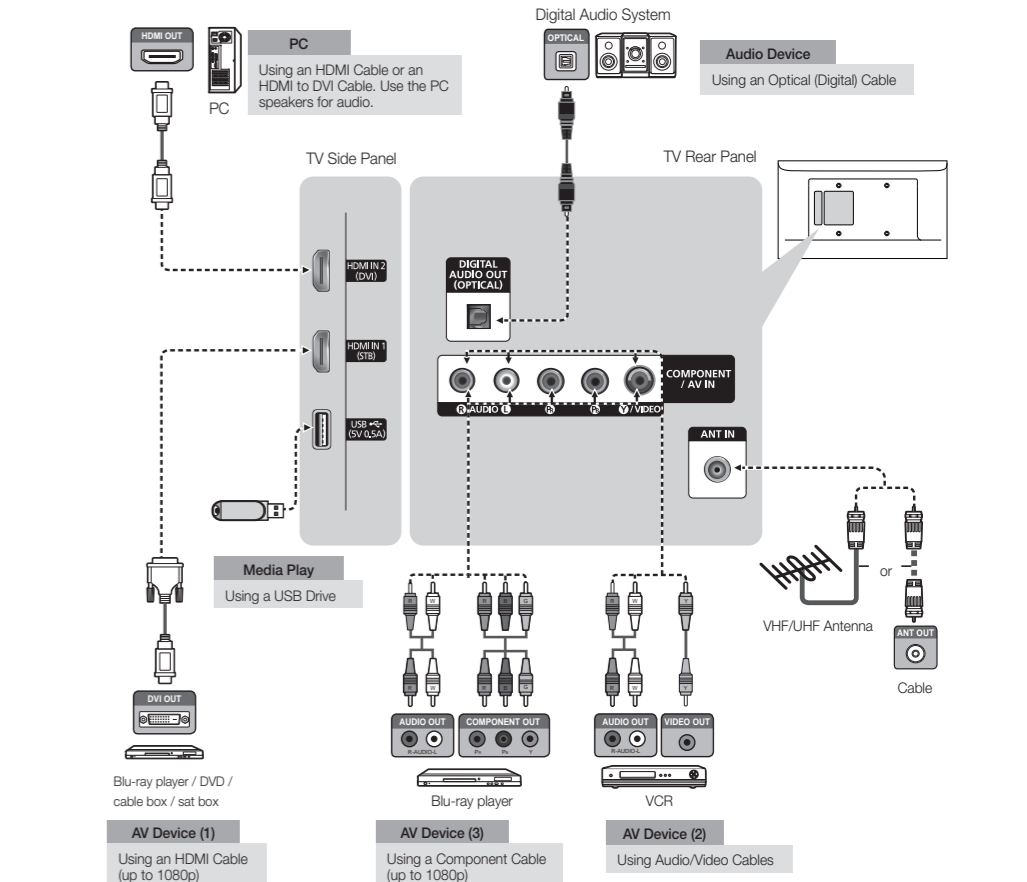
- Mode (TOOLS)
 - Standard: Selects the normal sound mode.
 - MUSIC: Emphasizes music over voices.
 - Movie: Provides the best sound for movies.
 - Clear Voice: Emphasizes voices over other sounds.
- Equalizer
 - (standard sound mode only)
 - Balance L/R: Adjusts the balance between the right and left speaker.
 - 100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.
 - Reset: Resets the equalizer to its default settings.
- DTS TruSurround
 - (standard sound mode only)
 - DTS TruSurround is a patented DTS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.
- Preferred Language
 - (digital channels only)
 - Digital-TV broadcasts are capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).
 - You can only select a language from among the ones being broadcasted.

- Input Source

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV (1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit
- Custom: Magnifies or shrinks 16:9 pictures vertically and/or horizontally. A magnified or shrunk picture can be moved left, right, up, and down.

Connections

- For the best picture and audio quality, connect digital devices using an HDMI cable.
- If you connect an external device to the TV that uses an older version of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- PC/DVI AUDIO IN input is not supported.
- For an HDMI to DVI cable connection, you must use the HDMI IN 2 (DVI) port.
- Connecting through the HDMI cable may not be supported depending on the PC.
- If an HDMI to DVI cable is connected to the HDMI IN 2 (DVI) port, the audio does not work.
- For Set-top box connection using HDMI cable, we highly recommend you to connect the HDMI IN 1 (STB) port.



Changing the Input Source

- Source List
 - Use to select TV or an external input source such as a DVD player / Blu-ray player / cable box / STB satellite receiver.
 - You cannot input the numbers by pressing the TV's controller.
 - If you press it first, the control menu appears. You can select the function by pressing and holding the TV's controller.
 - With the TV's Controller, you cannot perform other operations except for turning the TV on or off, changing the channel, adjusting the volume, and switching the input source.
- When connecting a PC to the HDMI IN 2(DVI) port with HDMI to DVI cable, you should set the TV to DVI PC mode under Edit Name.
- When connecting an AV devices to the HDMI IN 2(DVI) port with HDMI to DVI cable, you should set the TV to DVI mode under Edit Name.
- When connecting an AV devices to the HDMI IN 2(DVI) port with HDMI to DVI cable, you should set the TV to DVI mode under Edit Name.

Information

You can see detailed information about the connected external device.

Multi-Track Sound

- (analog channels only)
- Mono: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.
- Stereo: Choose for channels that are broadcasting in stereo.
- SAP: Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.
 - Depending on the program being broadcast, you can listen to Mono, Stereo or SAP.
- Auto Volume
 - Because each broadcast station has its own signal conditions, the volume may fluctuate each time channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.
- SPDIF Output
 - The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed digital audio signal when you connect the digital audio jack on the back of the TV to a digital audio in jack on a receiver or home theater.
 - DST and Time Zone function is only available when the Clock Mode is set to Auto.
 - Sleep Timer (TOOLS)
 - Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).
 - To cancel the Sleep Timer, select Off.
 - Timer 1 / Timer 2 / Timer 3
 - Three different on / off timer settings can be made. You must set the clock first.
 - On Time / Off Time: Set the hour, minute, am/pm and Activate / Inactivate. (To activate the timer with the setting you have chosen, set to Activate.)
 - Volume: Set the desired volume level.
 - Content: When the On Time is activated, you can turn on a specific channel or play back contents such as photo or audio files.
 - TV/USB: Select TV or USB. (Make sure that an USB device is connected to your TV.)
 - Antenna: Displays the current antenna source.
 - Channel: Select the desired channel.
 - Music/Photo: Select the folder containing MP3/JPEG files on the USB device.
 - The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.
 - The media may not be played smoothly when using the device lower than USB 2.0.
</

Program Rating Lock

The **Program Rating Lock** feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal identification number) before any of the Program Rating Lock restrictions are set up or changed.

⚠️ **Program Rating Lock** is not available in **HDMI** or **Component** mode.

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

■ **Program Rating Lock**: You can block rated TV Programs.
■ **TV Parental Guidelines**: You can block TV programs depending on their rating. This function allows you to control what your children are watching.

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

■ **Canadian English**: You can block TV programs depending on their Anglophone Canadian.

■ **Canadian French**: You can block TV programs depending on their French Canadian rating.

■ **Downloadable U.S. Rating**: Parental restriction information can be used while watching DTV channels.

■ **Change PIN**: The Change PIN screen will appear. Choose any 4 digits for your PIN and enter it in **Enter New PIN**. Re-enter the same 4 digits in **Confirm New PIN**. When the Change PIN screen disappears, press the OK button. The TV has memorized your new PIN.

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

Caption

(On-Screen Text Messages)

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

⚠️ The **Caption** feature does not work in **Component** or **HDMI** mode.

■ **Caption Mode**: You can select the desired caption mode.

■ **Default / CC1-CC4 / Text1-Text4** (analog channels only)
The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.)

■ **Default / Service1-Service6 / CC1-CC4 / Text1-Text4** (digital channels only)
The Digital Captions function works with digital channels.

⚠️ **Service1-6** may not be available in digital caption mode depending on the broadcast.

■ **Digital Caption Options**: (digital channels only)
Size: Options include Default, Small, Standard and Large. The default is Standard.

Font Style: Options include Default and Styles 0 to 7. The default is Style 0.

Foreground Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan.

You can change the color of the letter. The default is White.

Background Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the background color of the caption. The default is Black.

Foreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing.

Background Opacity: This adjusts the opacity of the caption background. Options include Default, Transparent, Solid and Flashing.

Return to Default: This option sets each Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.

⚠️ **Digital Caption Options** are available only on **Default** and **Service1-Service6** can be selected in **Caption Mode**.

⚠️ The Foreground and Background cannot be set to have the same color.

Boot Logo

Enable/disable displaying the logo while the TV starts up.

Eco Solution

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

■ **No Signal Power Off** : Sets how quickly the TV switches to standby mode, if no picture is being received.

⚠️ Disabled when the PC is in power saving mode.

■ **Auto Power Off**: The TV will be automatically turned off when no user operation is received for 4 hours.

Auto Protection Time

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.

Support Menu

Self Diagnosis

■ **Picture Test**: Use to check for picture problems. If the problem continues to occur, check the color pattern.

■ **Sound Test**: Use the built-in melody sound to check for sound problems.

■ **Signal Strength**: (digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.

■ **Reset**: Reset all settings to the factory defaults.

⚠️ The PIN input screen appears before the setup screen.

⚠️ Enter your 4-digit PIN. Change the PIN using the **Change PIN** option.

Software Upgrade

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

Use Mode

You can turn the TV into a display model for retail environments by setting Use Mode to **Store Demo**.

⚠️ For all other uses, select **Home Use**.

■ With **Store Demo**, some functions are disabled, and the TV automatically resets itself after a preset amount of time.

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 centers and how to download products and software.

Application Menu

Using the Media Play

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



Connecting a USB Device

- Turn on your TV.
- Connect a USB device containing photo, music and/or movie files to the USB jack on the side of the TV.
- When USB is connected to the TV, you can select **Media Play (USB)** in **Applications** menu.

Using the Media Play Menu

- Press the MENU button. Press the ▲ or ▼ button to select **Applications**, then press the ENTER (↵) button in the **Media Play** menu.
- Press the ◀/▶/▲/▼ buttons to select the desired video in the file list.
- Press the ENTER (↵) button or (▶) (Play) button.

- It might not work properly with unlicensed multimedia files.
- Need-to-Know List** before using **Media Play (USB)**
 - Supported file systems are FAT 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 and Flash Card Readers. Devices should be connected directly to the TV's USB port. USB HDD is not supported.
 - Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
 - A USB device that requires high power (more than 0.5A) may not be supported.
 - 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 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.
 - 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.
 - PTP device is not supported.
 - If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
 - If the TV has 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 your connect them to the TV.
 - If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.
 - 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 a PC, format the device, and check the connection.

Videos

- Press the ◀/▶ buttons to select **Videos**, then press the ENTER (↵) button in the **Media Play** menu.
- Press the ◀/▶/▲/▼ buttons to select the desired video in the file list.
- 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, playing time and the progress bar are not displayed.
 - During video playback, you can search using the ◀/▶ buttons.

⚠️ In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

• Supported Subtitle Formats		
• External		
Name	File extension	
MPEG-4 timed text	.txt	
SAMI	.smi	
SubRip	.art	
SubViewer	.sub	
Micro DVD	.sub or .txt	
SubStation Alpha	.ssa	
Advanced SubStation Alpha	.ass	

• Internal		
Name	Container	Format
Xsub	AVI	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubRip	MKV	Text Format
MPEG-4 Timed Text	MP4	Text Format

• Supported Video Formats						
File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate (Mbps)	Audio Codec
*.avi		Motion JPEG	640x480		8	
*.mkv		H.264 (SP)				
*.ast		MP1/MP				
*.wmv	AVI	H. 264 (SP) / MP / 1/4				AC3
*.mp4	MKV	Dnx 3.11 / 4				LPCM
*.mov	MP4	7 / 5 / 6				ADPCM (IMA, MS)
*.3gp	ASF	MPEG4 (SP)				AAC
*.vvo	MP4	gCP				HE-AAC
*.mpg	MOV	Window Media Video v9VC1	1920x1080	MAX 30	30	WMA DD+
*.mppeg	FLV					
*.ts	VRD					MPEG(MP3)
*.tp	VOB					DTS (Core , LBR)
*.trp	PS					G.711(A-Law, μ-Law)
*.mov	TS	MPEG2				
*.vob						
*.avi						
*.divx		MPEG1				
*.webm	WebM	Vp8	1920x1080	6-30	20	Vorbis

Other Restrictions

• Codces may not function properly if there is a problem with the content.

• Video content does not play or does not play correctly if there is an error in the content or container.

• Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.

• If the Index Table has an error, the Seek (Jump) function will not work.

• When playing video over a network connection, the video may not play smoothly because of data transmission speeds.

• Some USB/digital camera devices may not be compatible with the TV.

• While the TV is playing a video at the bit rate of 10 Mbps or higher, the menu screens may be displayed slowly.

Video Decoder
Supports up to H.264, Level 4.1
H.264 FMO / ASO / RS, VC1 / AP L4 are not supported.
GMC 2 or above is not supported.
Audio Decoder
WMA 10 Pro supports up to 5.1 channels. Supports up to the M2 profile. WMA lossess audio is not supported.
QCQLP and AMR NB/WB are not supported.
Vorbis is supported for up to 2 channels.
Dolby Digital Plus is supported for up to 5.1 channels.
The DTS LBR codec is only available for MKV / MP4 /TS containers.

Music

- Press the ◀/▶ buttons to select **Music**, then press the ENTER (↵) button in the **Media Play** menu.
- Press the ◀/▶/▲/▼ buttons to select the desired Music in the file list.
- Press the ENTER (↵) button or (▶) (Play) button.
 - During music playback, you can search using the ◀/▶ buttons.
 - (◀) (REW) and (▶) (FF) buttons do not function during play.

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

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

Photos

- Press the ◀/▶ buttons to select **Photos**, then press the ENTER (↵) button in the **Media Play** menu.
- Press the ◀/▶/▲/▼ buttons to select the desired photo in the file list.
- Press the ENTER (↵) button or (▶) (Play) button.
 - While a photo list is displayed, press the (▶) (Play) / ENTER (↵) button on the remote control to start the 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.
 - During the slide show, you can adjust the slide show speed using (◀) (REW) or (▶) (FF) button.
 - You can move to other file using the ◀/▶ buttons.

• Supported Photo Formats

Image	Photo	Resolution
JPEG	Base-line	15360 x 8704
	Progressive	1024 x 768

Other Restrictions

CMYK and Y'CKC Color space JPEGs are not supported.

Playing Multiple Files

■ **Play selected video/music/photo files**

- Press the Yellow button in the file list to select the desired file.
- 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**.

■ Press the TOOLS button, and then select **Play Selected Contents**.

■ **Play the video/music/photo file group**

- While a file list is displayed, move to any file in desired group.
- Press the TOOLS button, and then select **Play Folder**.

Media Play - Additional Functions

■ **Videos/Music/Photos Play Option menu**

When playing a file, press the TOOLS button.

Category	Operation	Videos	Music	Photos
Title	You can move the other file directly.	✓		
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	
Picture Size	You can adjust the picture size to your preference.	✓		
Picture Mode	You can adjust the picture setting.	✓	✓	✓
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Settings	You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video.	✓		
Audio Format	You can select the digital audio output format.	✓		
Audio Language	You can change the audio language if the video has more than one language.	✓		
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.	✓	✓	✓

Using the Sports Mode

Sports Mode

This mode provides optimised condition for watching sports games.

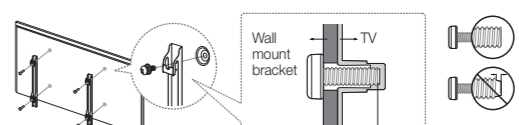
⚠️ When the **Sports Mode** is **On**, the picture and sound modes are set to **Stadium** automatically.

Other Information

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 items. 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 wall mount on your own.



⚠️ To prevent the TV from falling

⚠️ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.

1. Drive the screws into the clamps and firmly fasten them onto the wall. Make sure the screws are firmly fixed into the wall.

2. Remove the screws from the back center of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.

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.

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


⚠️ Install the TV close to the wall so that it does not fall.

⚠️ 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.

■ **Kensington Lock**
The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for additional information on proper use.

⚠️ Please find a "Ⓛ" icon on the rear of the TV. The Kensington slot is beside the "Ⓛ" icon.

⚠️ The position and color may differ depending on the model.

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	C (mm)	Standard Screw	Quantity
LED-TV	43	200 X 200	21.5 - 22.5	M8	4
	48				
				Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.	

Troubleshooting

If the TV seems to have a problem, first review this list of possible problems and solutions. If none of these troubleshooting tips apply, visit samsung.com, then click on Support, or call Samsung customer service.

Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Energy Saving feature. If you follow below step with your remote, you can turn these features off or on. <ul style="list-style-type: none">Energy Saving : MENU → Setup → Eco Solution → Energy Saving → Select Settings
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and White, first run a Self Diagnosis on the TV to make sure there are no device issues. <ul style="list-style-type: none">Self Diagnosis : MENU → Support → Self Diagnosis → Picture Test If the test is ok, try making sure: <ul style="list-style-type: none">Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source. Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb or Pr jack on the video source to the blue Pb or Pr jack on the TV, the red Pr jack on the source to the red Pr jack on the TV.
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair. <ul style="list-style-type: none">Backlight, Contrast, Brightness, Sharpness, Color, Tint (G/R) and so on. Go to "Picture" on user Menu then try adjusting options mentioned above.
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature. <p>First make sure your Sleep Timer is not accidentally set. The sleep timer allows you the comfort of falling asleep with the TV still on but, turns it off after a certain period of time so as not to waste energy.</p> <ul style="list-style-type: none">Sleep Timer: MENU → Setup → Time → Sleep Time <p>If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.</p> <ul style="list-style-type: none">No Signal Power Off : MENU → Setup → Eco Solution → No Signal Power Off Auto Power Off : MENU → Setup → Eco Solution → Auto Power Off
Trouble Powering On	Before Turn on check red light on the right or left bottom of your TV. Press power on button on TV or remote and it will blink about 5 times before turning on. <p>If you find that you are having trouble powering on your Samsung television, there are a number of things to check before making a call to the service department.</p> <ul style="list-style-type: none">If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on. If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box. <p>If you have any trouble to assemble the stand though you refer to "Install the Stand" mentioned at separate guide.</p> <p>Re-run plug and play.</p>
Poor picture	First, perform the Picture Test and to see if your TV is properly displaying the test image. <p>Go to MENU → Support → Self Diagnosis → Picture Test</p> <p>If the test image is properly displayed, the poor picture may be caused by the source or signal.</p> <ul style="list-style-type: none">If you have an analog cable/satellite 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 channels from the channel line up. Air/Cable Antenna connection: Try HD channels after performing Auto program. Many HD channels are up scaled from SD(Standard Definition) contents. <ul style="list-style-type: none">Adjust the Cable/Set top box video output resolution to 1080i or 720p.
The picture is distorted: macroblock error, small black, dots, pixelation.	<ul style="list-style-type: none">Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action movies. A weak signal can cause picture distortion. This is not a TV problem. Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.
Color 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 color problems or a blank screen.
There is poor color or brightness.	<ul style="list-style-type: none">Adjust the Picture options in the TV menu. (Go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (Go to MENU →