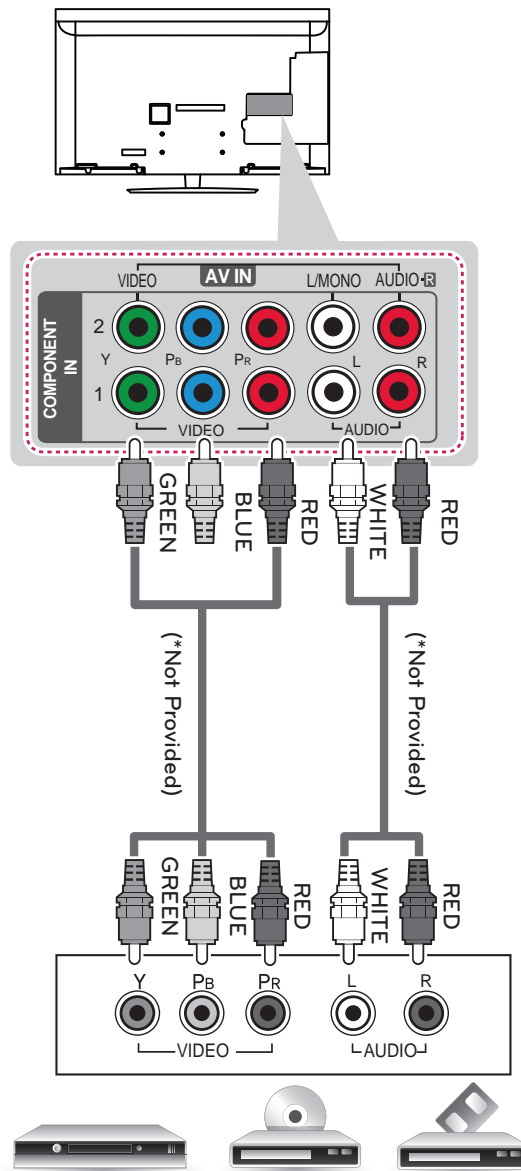


Component Connection

Transmits the analog video and audio signals from an external device to the TV. Connect the external device and the TV with the component cable as shown in the following illustration.

NOTE

- If cables are installed incorrectly, it could cause the image to display in black and white or with distorted color.
- Check to ensure the cables are matched with the corresponding color connection.



DVD/ Blu-Ray / HD Cable Box

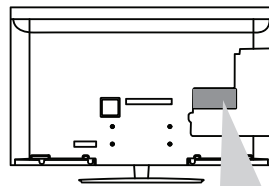
Composite Connection

Transmits the analog video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable as shown in the following illustration.

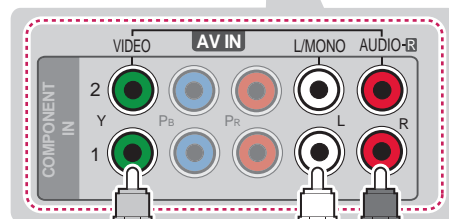


NOTE

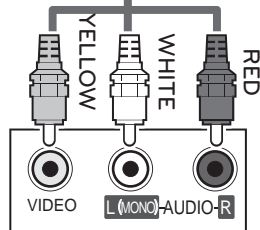
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO L/MONO jack of the TV.



Choose any AV IN input port to connect. It does not matter which port you use.



(*Not Provided)



VCR / DVD/ Blu-Ray / HD Cable Box

ENGLISH

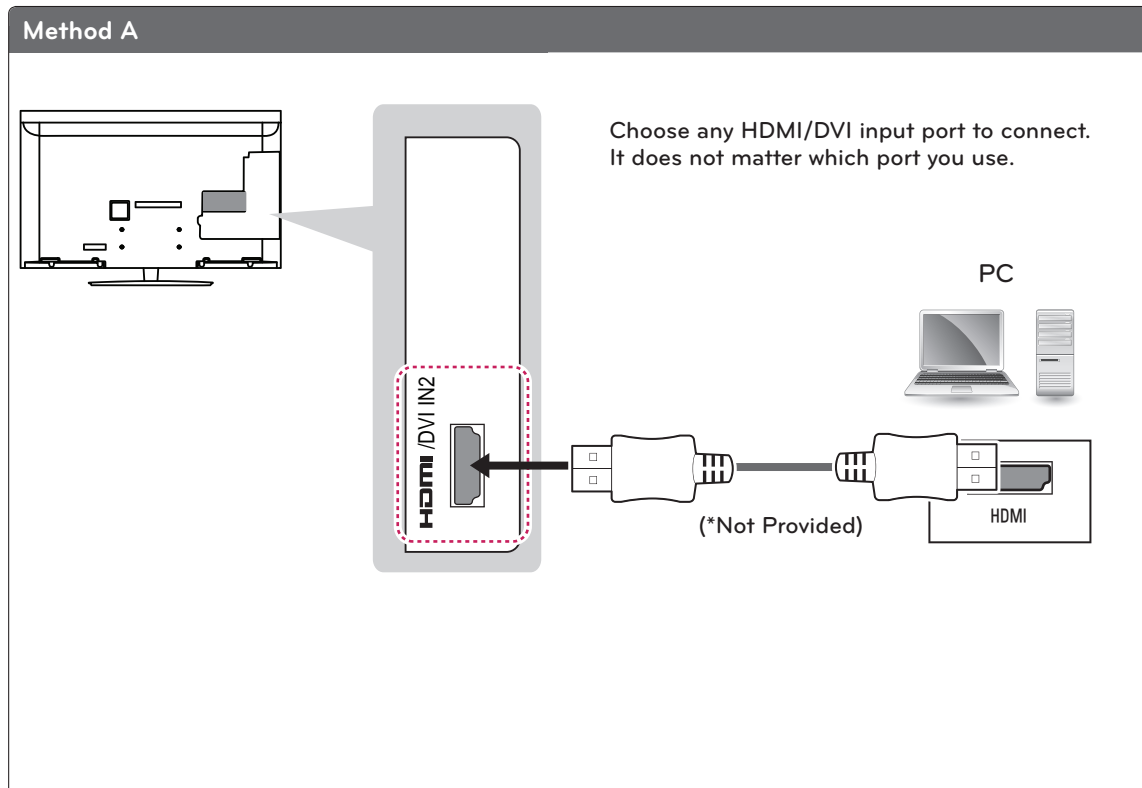
Connecting to a PC

! NOTE

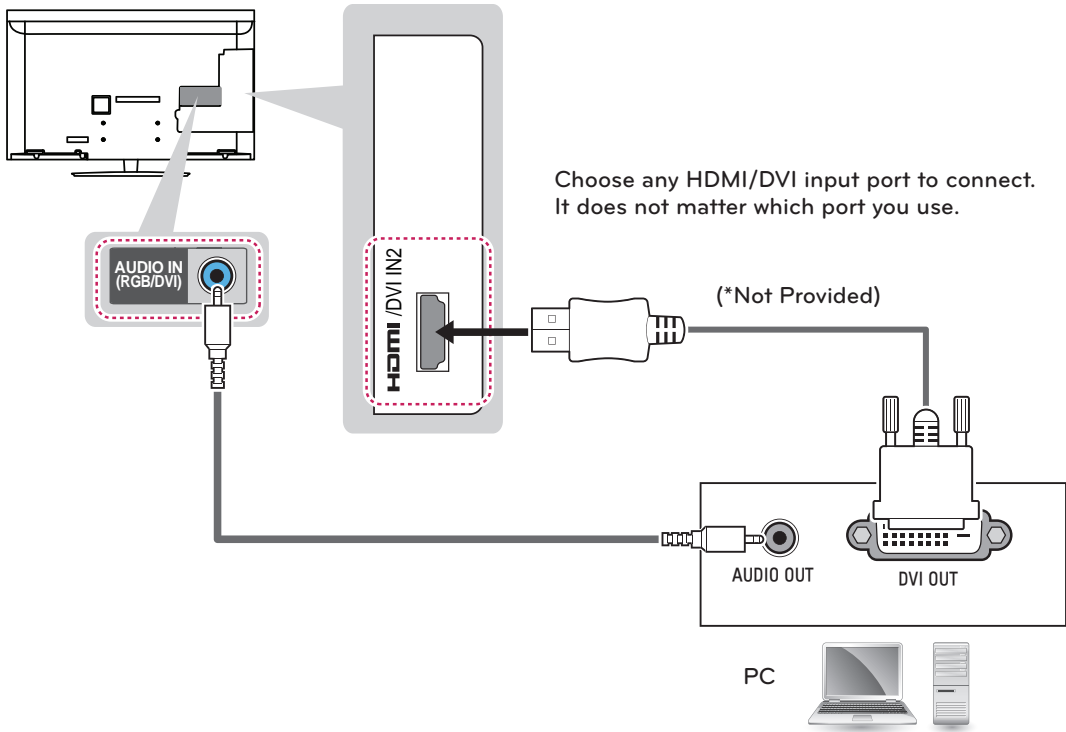
- It is recommended to use the TV with the HDMI connection for the best image quality.
- Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the PICTURE menu until the picture is clear.
- The synchronization input form for Horizontal and Vertical frequencies is separate.
- Depending on the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.

HDMI Connection, DVI to HDMI Connection or RGB Connection

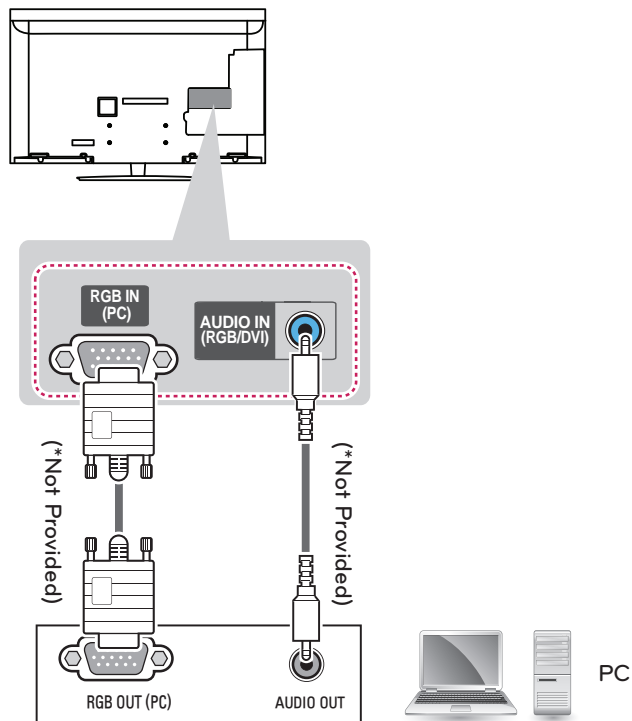
Choose method A, B, or C to make connection.



Method B



Method C



Connecting to an Audio System

Use an optional external audio system instead of the built-in speaker.



NOTE

- If you use an optional external audio device instead of the built-in speaker, set the TV speaker feature to off.

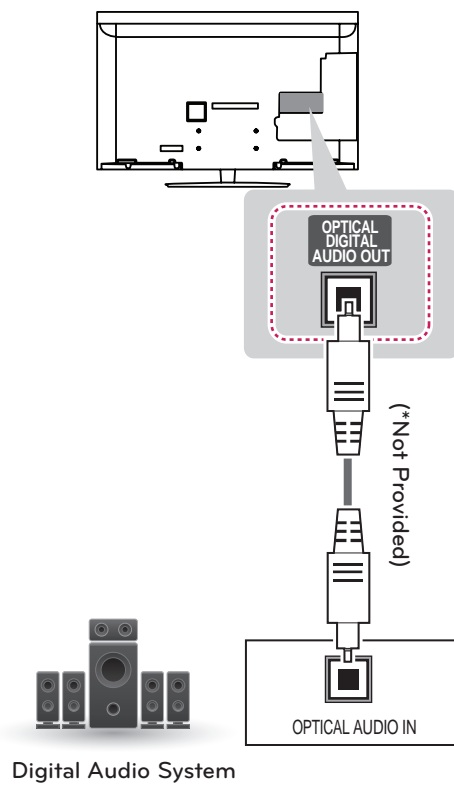
Digital Optical Audio Connection

Transmits the digital audio signal from the TV to an external device. Connect the external device and the TV with the optical audio cable as shown in the following illustration.



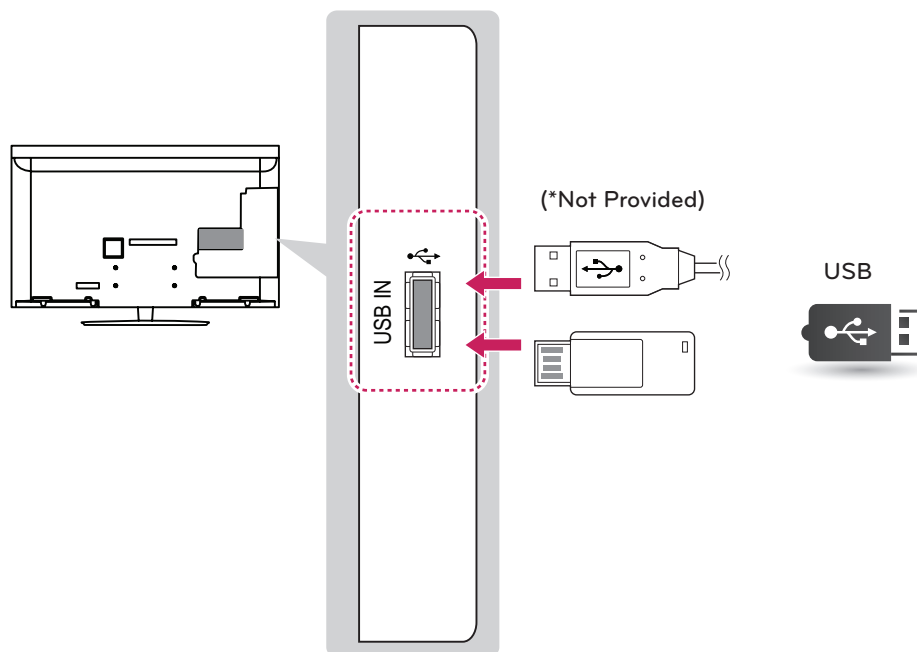
NOTE

- Do not look into the optical output port. Looking at the laser beam may damage your vision.
- Audio with ACP (Audio Copy Protection) function may block digital audio output.



Connecting to a USB

Connect a USB storage device such as a USB flash memory, external hard drive, or a USB memory card reader to the TV and access the Smart Share menu to use various multimedia files.



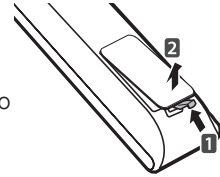
ENGLISH

REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control.

Please read this manual carefully and use the TV correctly.

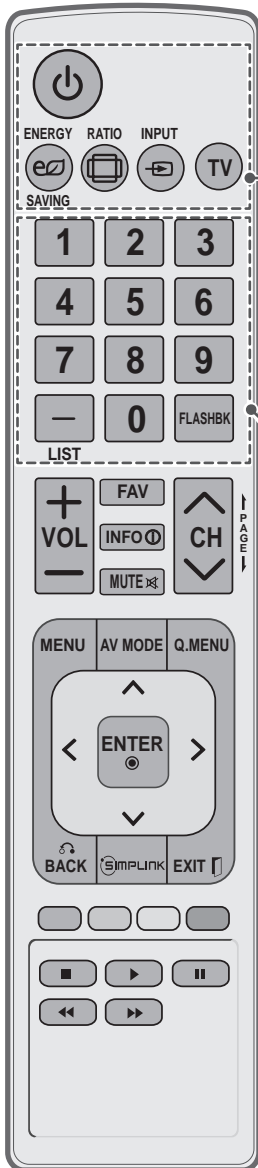
To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching the ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse.



CAUTION

- Do not mix old and new batteries, as this may damage the remote control.

Make sure to point the remote control toward the remote control sensor on the TV.



⏻ (POWER)

Turns the TV on or off.

ENERGY SAVING

Adjusts the brightness of the screen to reduce energy consumption.

RATIO

Resizes an image.

INPUT

Changes the input source; Turns the TV on.

TV

Returns to the last TV channel.

Number button

Enters numbers.

LIST, - (Dash)

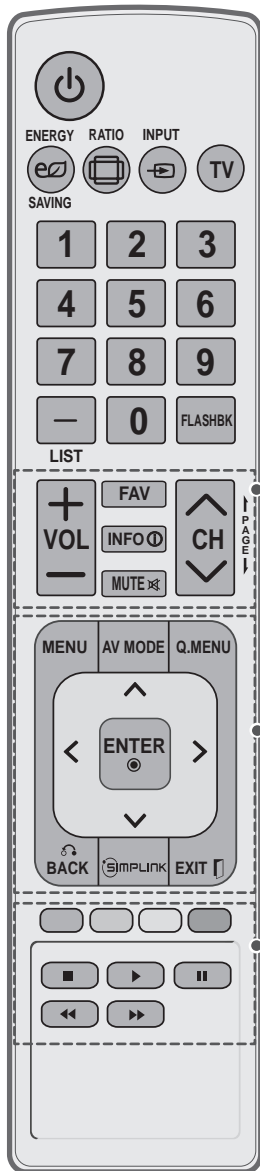
LIST: Accesses the saved channel list.

- (Dash): Inserts a dash between numbers such as 2-1 and 2-2.

FLASHBK

Alternates between the two last channels selected (pressing repeatedly).

ENGLISH



VOL

Adjusts the volume level.

FAV

Accesses your favorite channel list.

INFO

Views the information of the current program and screen.

MUTE

Mutes all sounds.

CH, PAGE

CH: Scrolls through the saved channels.

PAGE: Moves to the previous or next screen.

MENU

Accesses the main menu.

AV MODE

Selects an AV mode.

Q. MENU

Accesses the quick menu.

Navigation buttons (up/down/left/right)

Scrolls through menus or options.

ENTER

Selects menus or options and confirms your input.

BACK

Returns to the previous level.

SIMPLINK

Accesses the AV devices connected to the TV;
Opens the SIMPLINK menu.

EXIT

Clears all on-screen displays and returns to TV viewing.

Color buttons

These access special functions in some menus.

Control buttons

Controls the Premium contents, Smart Share menus, or the SIMPLINK compatible devices (USB, SIMPLINK).

WATCHING TV

Turning the TV on for the first time

When you turn the TV on for the first time, the Initial setting screen appears. Select a language and customize the basic settings.

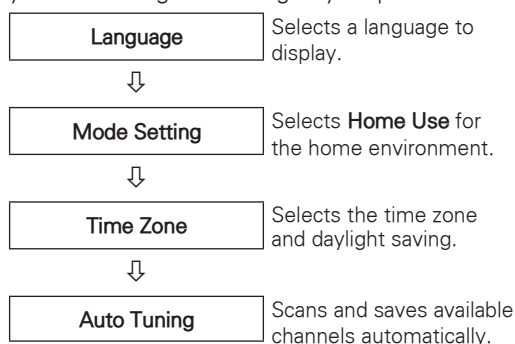
- 1 Connect the power cord to a power outlet.
- 2 In Standby mode, press the power button on the remote control to turn the TV on.

The Initial setting screen appears if you turn the TV on for the first time.

! NOTE

- You can also access **Initial Setting** by accessing **OPTION** in the main menu.

- 3 Follow the on-screen instructions to customize your TV settings according to your preferences.



! NOTE

- To display images in the best quality for your home environment, select **Home Use**.
- **Store Demo** is suitable for the retail environment.
- If you select **Store Demo**, any customized settings will switch back to the default settings of **Store Demo** in 5 minutes.

- 4 When the basic settings are complete, press **ENTER**.

! NOTE

- If you do not complete the Initial setting, it will appear whenever the TV turns on.
- Disconnect the power cord from the power outlet when you do not use the TV for a long period of time.

- 5 To turn the TV off, press the power button on the remote control.

TROUBLESHOOTING

General

Problem	Resolution
Cannot control the TV with the remote control.	<ul style="list-style-type: none"> • Check the remote control sensor on the product and try again. • Check if there is any obstacle between the product and the remote control. • Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖). • Check if the appropriate input mode such as TV or VCR is set for using the remote control.
No image display and no sound is produced.	<ul style="list-style-type: none"> • Check if the product is turned on. • Check if the power cord is connected to a wall outlet. • Check if there is a problem in the wall outlet by connecting other products.
Image appears slowly when the TV turns on.	<ul style="list-style-type: none"> • The image is muted during the product startup process. This is normal. If the image does not appear in a few minutes, unplug the TV for 30 seconds and try again. If the image still does not appear, contact the authorized service center in your local area.
Cannot connect external devices.	<ul style="list-style-type: none"> • Refer to the "Connection overview" and connect an external device.
The TV turns off suddenly.	<ul style="list-style-type: none"> • Check the power control settings. The power supply may be interrupted. • Check if the Auto sleep feature is activated in the Time settings. Refer to the "Sleep Timer". • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

ENGLISH

Audio

Problem	Resolution
No sound is produced while images are displaying.	<ul style="list-style-type: none"> • Press VOL + or - button. • Check if the sound is muted by pressing MUTE. • Scroll to other channels. There may a problem with the broadcast. • Check if the audio cables are connected properly. • Check if the TV Speaker feature is activated in the menu option.
No output from one of the speakers	<ul style="list-style-type: none"> • Adjust Balance in the menu option.
Unusual sound from inside the TV is produced.	<ul style="list-style-type: none"> • A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off. There is no problem with your product.

Video

Problem	Resolution
An image displays in black and white or the color quality is poor.	<ul style="list-style-type: none"> Adjust the color setting in the menu option. Keep a sufficient distance between this product and other electronic products. Scroll to other channels. There may a problem with the broadcast.
Horizontal or vertical bars appears or images blur	<ul style="list-style-type: none"> Check if there are local interferences such as an electrical appliance or power tool.
Lines or streaks appear on images	<ul style="list-style-type: none"> Check the antenna or aim the antenna to the proper direction.
Afterimages (ghosts) appear when the product turns off	<ul style="list-style-type: none"> Pixels may have been damaged from a fixed image displayed for a long time (image burn). Use a screen saver to prevent the pixel damage on the screen.
The power is on but the screen appears extremely dark.	<ul style="list-style-type: none"> Adjust the brightness and contrast in the menu option.
"No Signal" appears on the screen.	<ul style="list-style-type: none"> Check if the signal cable is connected between the TV and products properly. Check the selected input source by pressing INPUT.
Black spots appear on the screen.	<ul style="list-style-type: none"> Several pixels in red, green, white, or black may appear on the screen that can attribute to the characteristics of the panel. This is normal.
The display offset is wrong.	<ul style="list-style-type: none"> Adjust the position setting in the Picture menu. Check if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution using the display settings on the external device.
Thin lines appear in the background of the screen.	<ul style="list-style-type: none"> Check the video cable connections.
Horizontal noises appear or characters blur.	<ul style="list-style-type: none"> Adjust the Phase setting in the menu option. Refer to the "SCREEN (RGB-PC)".
The reception on some channels is poor	<ul style="list-style-type: none"> Scroll to other channels. There may a problem with the broadcast. The station signal may be weak. Aim the antenna to the proper direction. Check if there is local interference such as an electrical appliance or power tool.

Movie

Problem	Resolution
The file does not appear on the Movie List.	<ul style="list-style-type: none"> Check whether the extension is supported.
Message is displayed saying "This file is invalid" or the audio is working normally but the video is not working normally.	<ul style="list-style-type: none"> Check whether the file is playing normally on a PC. (Check whether the file is damaged.) Check whether the resolution is supported. Check whether the video/audio codec is supported. Check whether the frame rate is supported.
Message is displayed saying "Unsupported Audio" or the video is working normally but the audio is not working normally.	<ul style="list-style-type: none"> Check whether the file is playing normally on a PC. (Check whether the file is damaged.) Check whether the audio codec is supported. Check whether the bit rate is supported. Check whether the sample rate is supported.
Subtitle is not working.	<ul style="list-style-type: none"> Check whether the file is playing normally on a PC. (Check whether the file is damaged.) Check whether the video file and subtitle file name are the same. Check whether the video file and subtitle file are located in the same folder. Check whether the subtitle file is supported. Check whether the language is supported. (When you open the subtitle file in Memo Pad, you can check the language of the subtitle file.)

SPECIFICATIONS

Product specifications may be changed without prior notice due to upgrade of product functions.

Power requirement		AC100 - 240 V ~ 50/60 Hz
Television System		NTSC-M, ATSC, 64 & 256 QAM
Program Coverage		VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135
External Antenna Impedance		75 Ω
Environment condition	Operating Temperature	0 - 40°C
	Operating Humidity	Less than 80%
	Storage Temperature	-20 - 60°C
	Storage Humidity	Less than 85%

MODELS		42PA4500 (42PA4500-UA)	50PA4500 (50PA4500-UA)
Dimensions (W x H x D)	With stand	991.8 mm x 667.0 mm x 230.5 mm (39.0 inch x 26.2 inch x 9.0 inch)	1168.0 mm x 758.0 mm x 297.0 mm (45.9 inch x 29.8 inch x 11.6 inch)
	Without stand	991.8 mm x 613.8 mm x 52.5 mm (39.0 inch x 24.1 inch x 2.0 inch)	1168.0 mm x 704.0 mm x 52.5 mm (45.9 inch x 27.7 inch x 2.0 inch)
Weight	With stand	21.5 kg (47.3 lbs)	28.2 kg (62.1 lbs)
	Without stand	20.0 kg (44.0 lbs)	25.8 kg (56.8 lbs)

ENGLISH

MODELS		50PA4510 (50PA4510-UA)
Dimensions (W x H x D)	With stand	1168.0 mm x 758.0 mm x 297.0 mm (45.9 inch x 29.8 inch x 11.6 inch)
	Without stand	1168.0 mm x 704.0 mm x 52.5 mm (45.9 inch x 27.7 inch x 2.0 inch)
Weight	With stand	28.2 kg (62.1 lbs)
	Without stand	25.8 kg (56.8 lbs)

MODELS		42PA4900 (42PA4900-UA)	50PA4900 (50PA4900-UA)
Dimensions (W x H x D)	With stand	991.8 mm x 667.0 mm x 230.5 mm (39.0 inch x 26.2 inch x 9.0 inch)	1168.0 mm x 758.0 mm x 325.5 mm (45.9 inch x 29.8 inch x 12.8 inch)
	Without stand	991.8 mm x 613.8 mm x 52.5 mm (39.0 inch x 24.1 inch x 2.0 inch)	1168.0 mm x 704.0 mm x 52.5 mm (45.9 inch x 27.7 inch x 2.0 inch)
Weight	With stand	21.5 kg (47.3 lbs)	27.6 kg (60.8 lbs)
	Without stand	20.0 kg (44.0 lbs)	24.5 kg (54.0 lbs)

MODELS		60PA4900 (60PA4900-UA)
Dimensions (W x H x D)	With stand	1390.8 mm x 905.2 mm x 334.7 mm (54.7 inch x 35.6 inch x 13.1 inch)
	Without stand	1390.8 mm x 835.5 mm x 52.5 mm (54.7 inch x 32.8 inch x 2.0 inch)
Weight	With stand	42.6 kg (93.9 lbs)
	Without stand	38.5 kg (84.8 lbs)

MODELS		50PA5500 (50PA5500-UA)	60PA5500 (60PA5500-UA)
Dimensions (W x H x D)	With stand	1168.0 mm x 758.0 mm x 297.0 mm (45.9 inch x 29.8 inch x 11.6 inch)	1390.8 mm x 905.2 mm x 334.7 mm (54.7 inch x 35.6 inch x 13.1 inch)
	Without stand	1168.0 mm x 704.0 mm x 52.5 mm (45.9 inch x 27.7 inch x 2.0 inch)	1390.8 mm x 835.5 mm x 52.5 mm (54.7 inch x 32.8 inch x 2.0 inch)
Weight	With stand	28.7 kg (63.2 lbs)	42.6 kg (93.9 lbs)
	Without stand	26.3 kg (57.9 lbs)	38.5 kg (84.8 lbs)

MODELS		50PA6500 (50PA6500-UA)	60PA6500 (60PA6500-UA)
Dimensions (W x H x D)	With stand	1168.0 mm x 758.0 mm x 297.0 mm (45.9 inch x 29.8 inch x 11.6 inch)	1390.8 mm x 905.2 mm x 334.7 mm (54.7 inch x 35.6 inch x 13.1 inch)
	Without stand	1168.0 mm x 704.0 mm x 52.5 mm (45.9 inch x 27.7 inch x 2.0 inch)	1390.8 mm x 835.5 mm x 52.5 mm (54.7 inch x 32.8 inch x 2.0 inch)
Weight	With stand	28.7 kg (63.2 lbs)	42.6 kg (93.9 lbs)
	Without stand	26.3 kg (57.9 lbs)	38.5 kg (84.8 lbs)

MODELS		42PA6900 (42PA4900-UA)	50PA6900 (50PA4900-UA)
Dimensions (W x H x D)	With stand	991.8 mm x 667.0 mm x 230.5 mm (39.0 inch x 26.2 inch x 9.0 inch)	1168.0 mm x 758.0 mm x 325.5 mm (45.9 inch x 29.8 inch x 12.8 inch)
	Without stand	991.8 mm x 613.8 mm x 52.5 mm (39.0 inch x 24.1 inch x 2.0 inch)	1168.0 mm x 704.0 mm x 52.5 mm (45.9 inch x 27.7 inch x 2.0 inch)
Weight	With stand	21.5 kg (47.3 lbs)	27.6 kg (60.8 lbs)
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MODELS		60PA6900 (60PA4900-UA)
Dimensions (W x H x D)	With stand	1390.8 mm x 905.2 mm x 334.7 mm (54.7 inch x 35.6 inch x 13.1 inch)
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Weight	With stand	42.6 kg (93.9 lbs)
	Without stand	38.5 kg (84.8 lbs)

OPEN SOURCE SOFTWARE NOTICE

To obtain the source code under GPL, LGPL, MPL and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.



LG

Life's Good

The model and serial number of the TV is located on the back and/or one side of the TV. Record it below should you ever need service.

MODEL _____

SERIAL _____

The extended owner's manuals that contain information on the advanced features of this LG TV are located on the CD-ROM provided in an electronic version.

To read these files, you will need to use the personal computer (PC) equipped with a CD-ROM drive.

LG Customer Information Center

For inquires or comments, visit www.lg.com or call;

1-800-243-0000	USA, Consumer User
1-888-865-3026	USA, Commercial User
1-888-542-2623	CANADA

Register your product Online!

www.lg.com

(For USA, Canada, Mexico)



This product qualifies for ENERGY STAR in the "factory default (Home Use)" setting.

Changing the factory default settings or enabling other features may increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR.