



**LG**

Life's Good

ENGLISH

# OWNER'S MANUAL

## LED TV\*

\* LG LED TV applies LCD screen with LED backlights.

Please read this manual carefully before operating your TV and retain it for future reference.

29MA73D  
29MA73V

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# LICENSES

Supported licenses may differ by model. For more information of the licenses, visit [www.lg.com](http://www.lg.com).



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Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274



VESA, VESA logo, Display Port Compliance Logo and Display Port Compliance Logo for dual-mode source are all registered trademarks of the Video Electronics Standards Association.

# INSTALLATION PROCEDURE

- 1 Open the package and make sure all the accessories are included.
- 2 Attach the stand to the TV.
- 3 Connect an external device to the TV.



## NOTE

- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.

# ASSEMBLING AND PREPARING

## Unpacking

Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and accessories.



### NOTE

- The accessories supplied with your product may vary depending on the model.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.



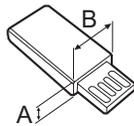
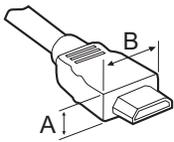
### CAUTION

- Do not use any pirated items to ensure the safety and product life span.
- Any damages or injuries by using unapproved or counterfeit parts or accessories are not covered by the warranty.



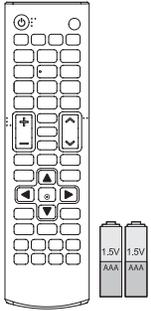
### NOTE

- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width. Use an extension cable that supports USB 2.0 if the USB cable or USB memory stick does not fit into your TV's USB port.



\*A ≦ 10 mm

\*B ≦ 18 mm



**Remote Control Batteries (AAA)**

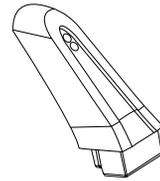
(See p.38, See p.39)

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**CD (Owner's Manual) Cards**

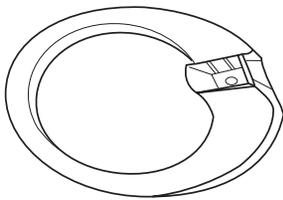
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**Stand Body**

(See p.11, See p.15)

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**Stand Base**

(See p.11, See p.15)

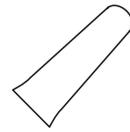
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**Screw 2 ea**

(See p.11, See p.15)

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**Stand Screw cover**

(See p.11, See p.15)

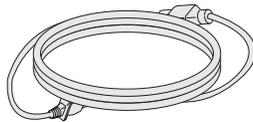
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**Cable Tie**

(See p.13)

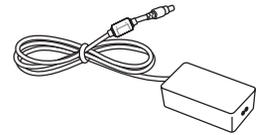
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**Power Cord**

(See p.13)

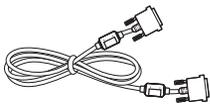
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**AC-DC Adapter**

(See p.13)

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**DVI-D cable**

(See p.26, See p.36)

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**Isolator**

(Depending on the country)

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**DisplayPort cable**

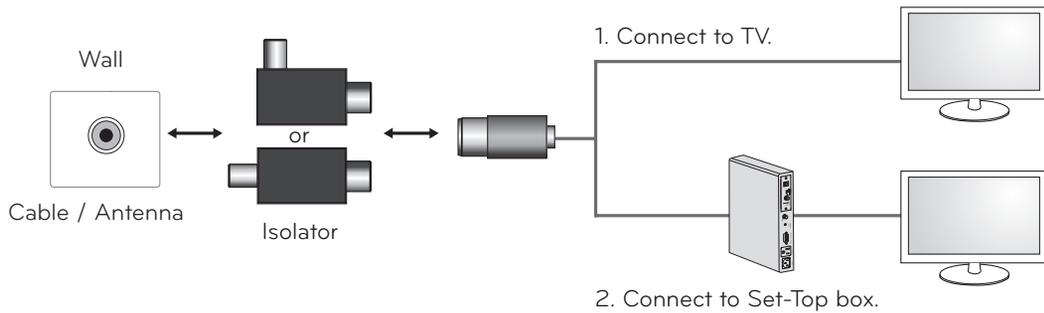
(Depending on the country)  
(See p.37)

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**!** NOTE

• Antenna Isolator Installation Guide

- Use this to install TV in a place where there is a voltage difference between TV Set and GND of antenna signal.
  - » If there is a voltage difference between TV Set and GND of antenna signal, the antenna contact might be heated and excessive heat might cause an accident.
- You can improve the safety when watching TV by efficiently removing power voltage from TV antenna. It is recommended to mount the isolator to the wall. If it cannot be mounted to the wall, mount it on the TV. Avoid disconnecting the antenna Isolator after installation.
- Before starting, be sure that the TV antenna is connected.

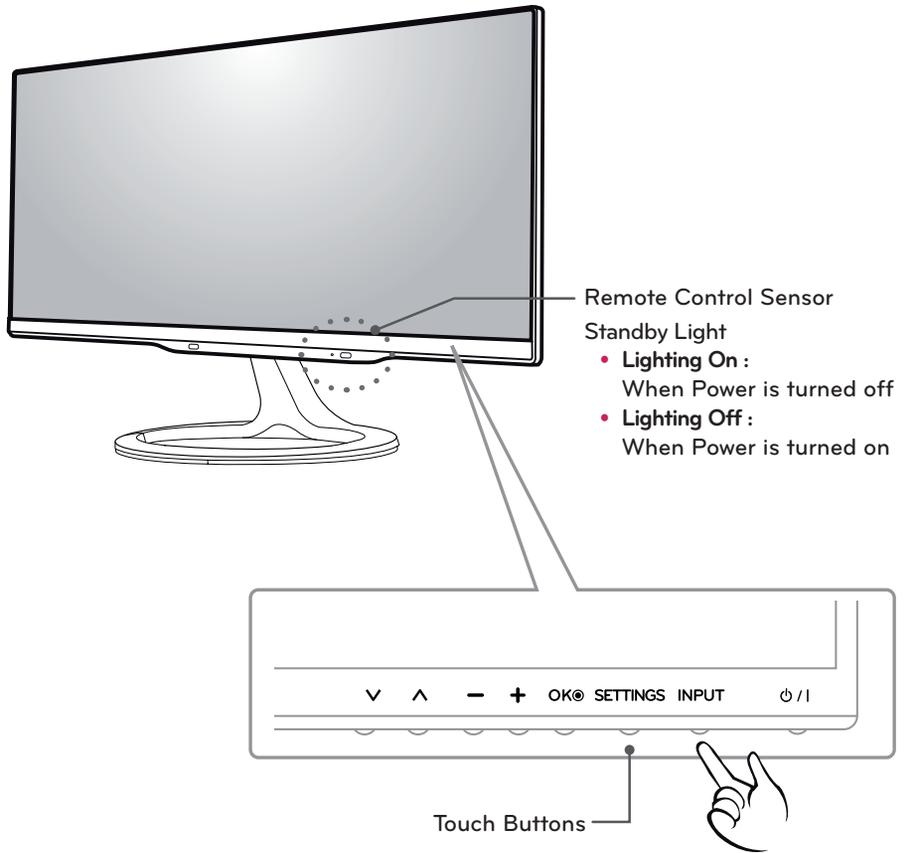


Connect one end of the isolator to cable/antenna jack and the other to TV set or set-top box.

"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing - and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"

When applying the RF Isolator, a slight loss of signal sensitivity can occur.

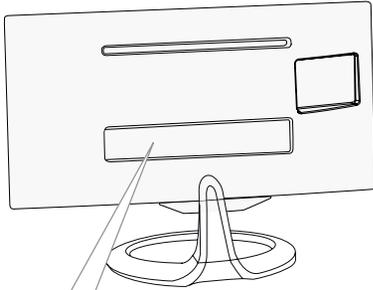
## Parts and buttons



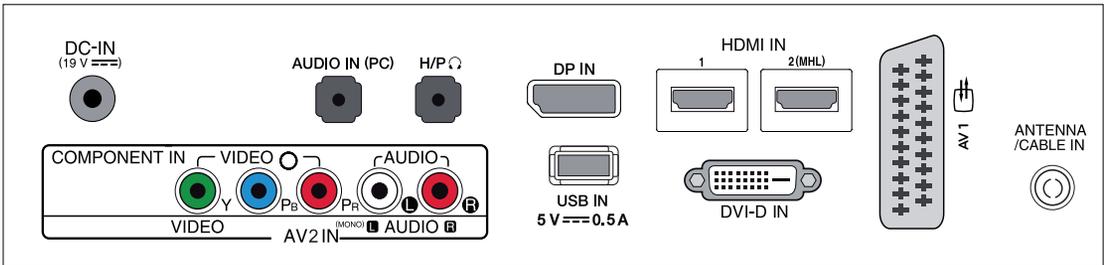
### NOTE

All of the buttons are touch sensitive and can be operated through simple touch with your finger.  
Power and control touch button are located on the bottom.

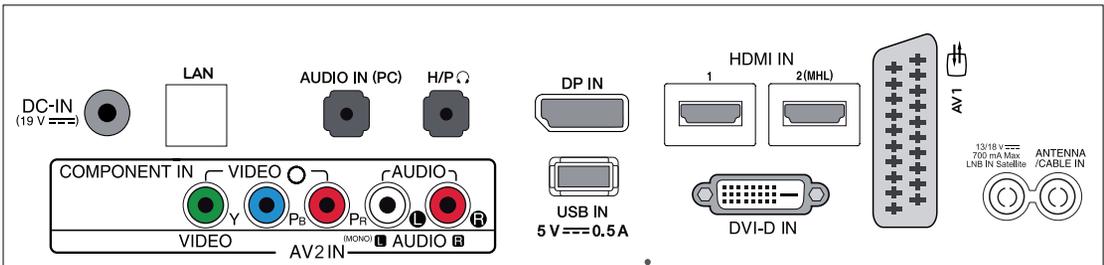
Touch button	Description
▼ ▲	Scrolls through the saved programmes.
– +	Adjusts the volume level.
OK	Selects the highlighted menu option or confirms an input.
SETTINGS	Accesses the main menus, or saves your input and exits the menus.
INPUT	Changes the input source.
⏻ / I	Turns the power on or off.



**29MA73D**



**29MA73V**



Connection panel (See p.23)

## Lifting and moving the TV

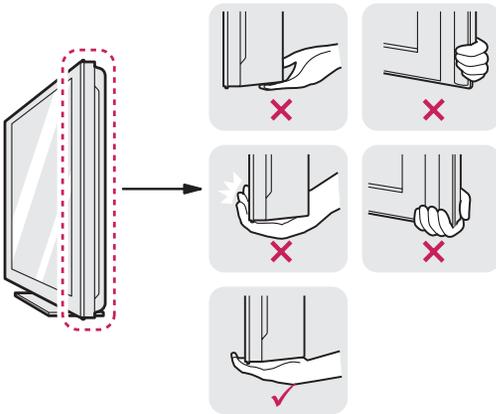
When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.



### CAUTION

Avoid touching the screen at all times, as this may result in damage to the screen or some of the pixels used to create images.

- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



- When holding the TV, the screen should face away from you to prevent the screen from scratches.



- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side, or tilt towards the left or right.



### CAUTION

29MA73



## Setting up the TV

### Attaching the Stand

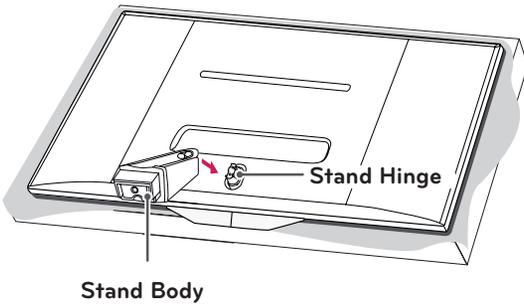
- 1 Place the screen face down.



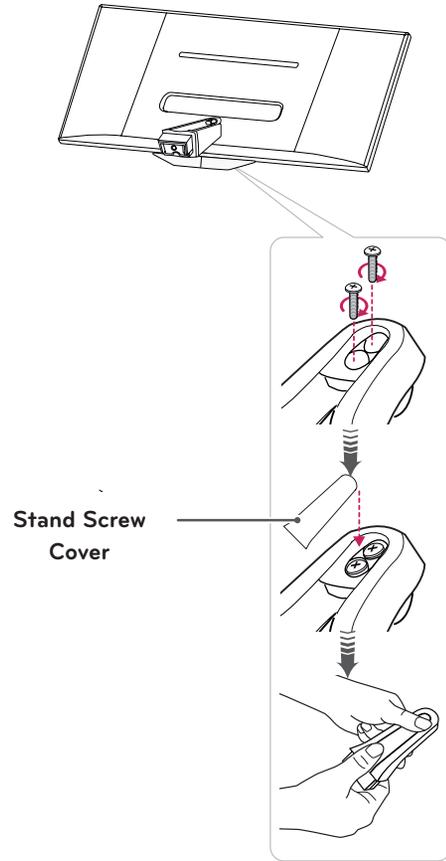
#### CAUTION

- To protect the screen from scratches, cover the surface with a soft cloth.

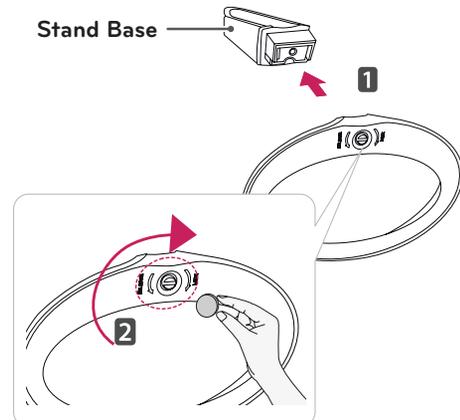
- 2 Check the orientation (front and rear) of the stand base and mount the **Stand Body** to the **stand hinge** as shown in the figure.

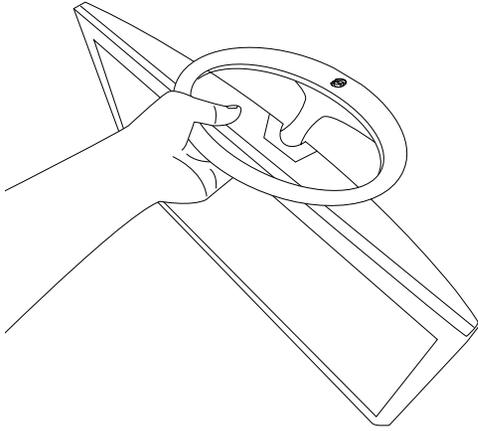


- 3 Fix two screws into the back of the stand base and close the screw cover.

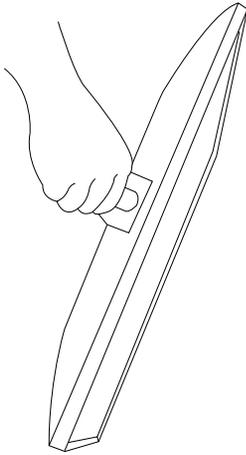


- 4 Attach the **Stand Base** from the **Stand Body** by turning the screw to the right with a **Coin**.



**CAUTION**

- Do not carry the monitor upside-down as this may cause it to fall off its stand, resulting in damage or injury.
- The illustration shows a general example of installation and may look different from the actual product.

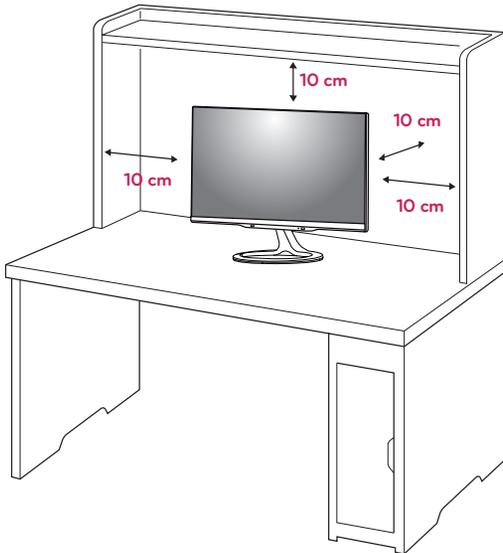


- Do not carry the monitor upside-down by holding the stand body as this may cause it to fall off, resulting in damage or injury.
- The illustration shows a general example of installation and may look different from the actual product.

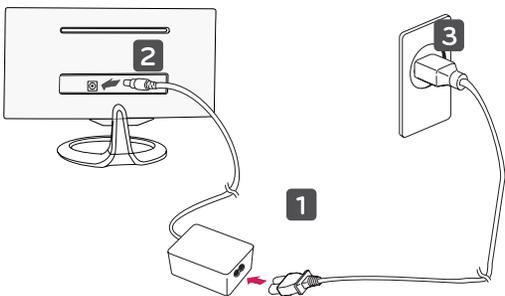
## Mounting on a table

- 1 Lift and tilt the TV into its upright position on a table.

Leave a 10 cm (4 inches) (minimum) space from the wall for proper ventilation.



- 2 Connect the **AC-DC Adapter** and **Power Cord** to a wall outlet.



### CAUTION

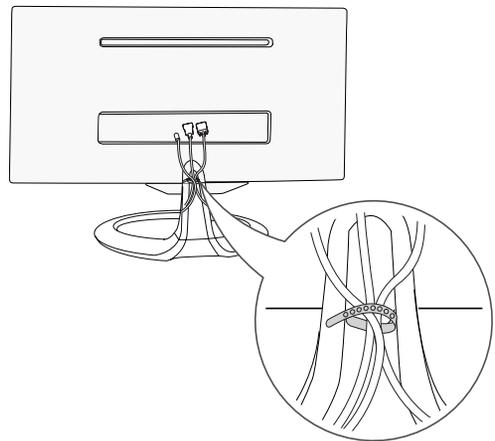
Do not place the TV near or on sources of heat, as this may result in fire or other damage.

### CAUTION

Disconnect the power cord first, and then move or install the TV. Otherwise electric shock may occur.

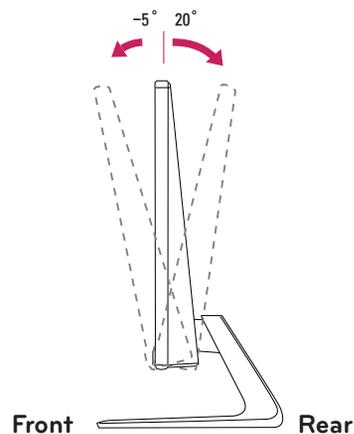
## Tidying cables

Gather and bind the cables with the supplied cable tie.



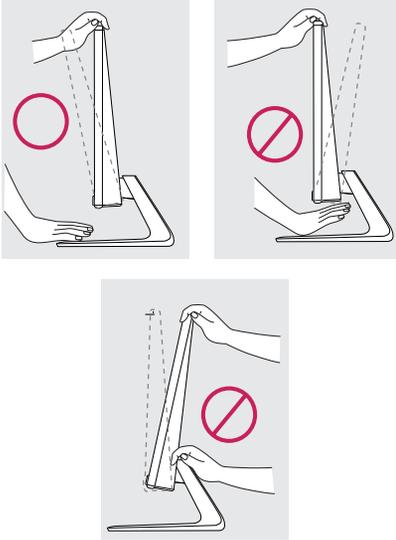
### NOTE

Tilt from -5 to +20 degrees up or down to adjust the angle of the TV to suit your view.

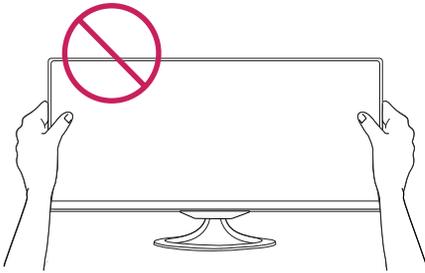


**! WARNING**

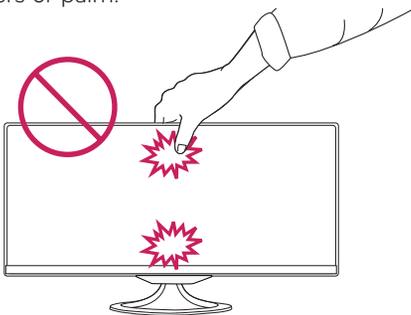
- When you adjust the angle, do not hold the bottom of the TV frame as shown on the following illustration, as may injure your fingers.



- Be careful not to touch or press the screen area when adjusting the angle of the TV.



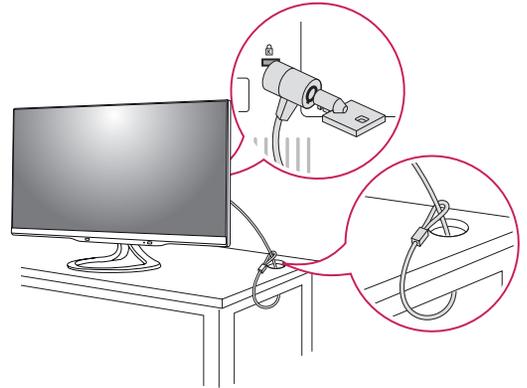
- Be careful not to press the screen with your fingers or palm.



**Using the Kensington security system**

The Kensington security system connector is located at the back of the TV. For more information of installation and using, refer to the manual supplied with the Kensington security system or visit <http://www.kensington.com>.

Connect the Kensington security system cable between the TV and a table.



**! NOTE**

The Kensington security system is optional. You can obtain additional accessories from most electronics stores.

## Detaching the Stand

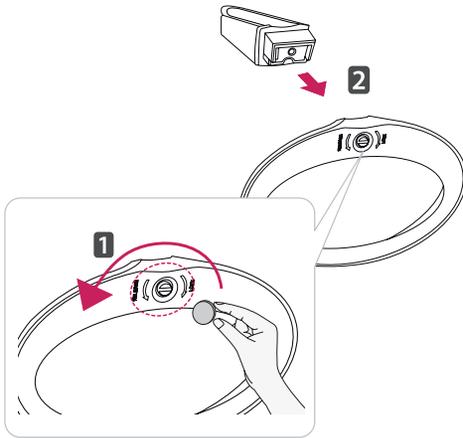
- 1 Place the screen face down.



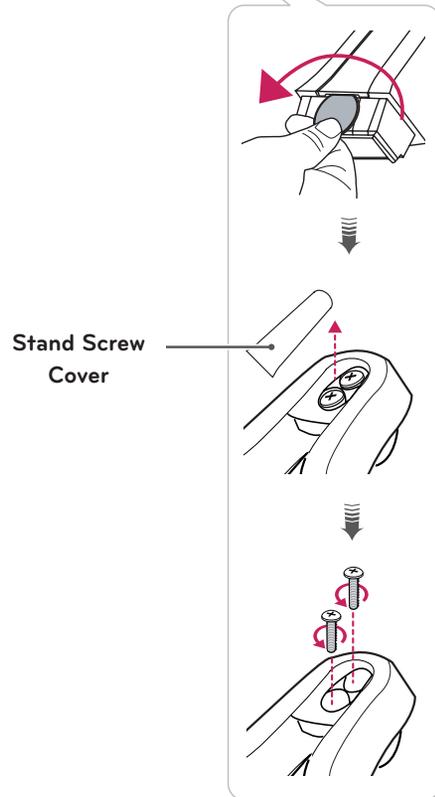
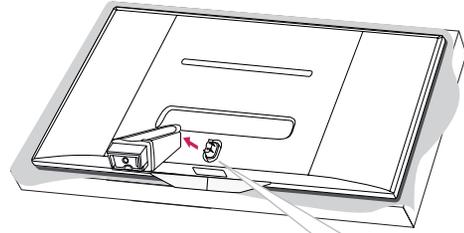
### CAUTION

- To protect the screen from scratches, cover the surface with a soft cloth.

- 2 Turn the screw to the left, and then pull out the **Stand Base** from the **Stand Body**.

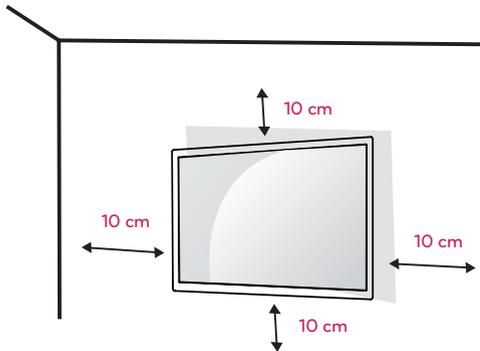


- 3 Open the screw cover on the back of the stand body and use a screw driver to remove the two screws.



## Mounting on a wall

For proper ventilation, allow a clearance of 10 cm on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



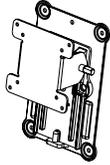
If you intend to mount the TV to a wall, attach Wall mounting interface (optional parts) to the back of the TV.

When you install the TV using the wall mounting interface (optional parts), attach it carefully so it will not drop.

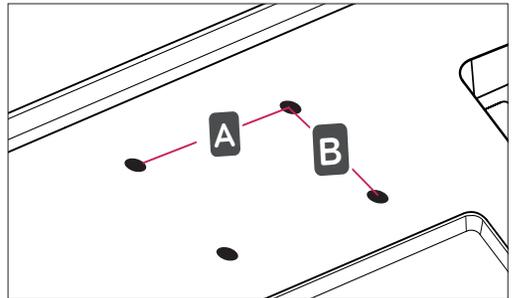
- 1 Please, Use the screw and wall mount interface in accordance with VESA Standards.
- 2 If you use screw longer than standard, the TV might be damaged internally.
- 3 If you use improper screw, the product might be damaged and drop from mounted position. In this case, LG Electronics is not responsible for it.
- 4 VESA compatible only with respect to screw mounting interface dimensions and mounting screw specifications.

5 Please use VESA standard as below.

- 784.8 mm (30.9 inch) and under
  - \* Wall Mount Pad Thickness : 2.6 mm
  - \* Screw :  $\Phi$  4.0 mm x Pitch 0.7 mm x Length 10 mm
- 787.4 mm (31.0 inch) and above
  - \* Please use VESA standard wall mount pad and screws.

<b>VESA (A x B)</b>	100 x 100
<b>Standard screw</b>	M4
<b>Number of screws</b>	4
<b>Wall mount bracket (optional)</b>	RW120 

- VESA (A x B)



**CAUTION**

- Disconnect the power cord first, and then move or install the TV. Otherwise electric shock may occur.
- If you install the TV on a ceiling or slanted wall, it may fall and result in severe injury.
- Use an authorized LG wall mount and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the TV and void your warranty.
- Use the screws and wall mounts that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the warranty.

**NOTE**

- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on the wall mount. Be sure to use the proper length.
- For more information, refer to the instructions supplied with the wall mount.

# WATCHING TV

## Turning the TV on for the first time

When you access the TV 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 Press  on the TV or power button on the remote control to turn the TV on.  
The Standby Light is turned off.



### NOTE

When the TV is in Power saving mode, the Standby Light turns amber.

- 3 The initial setting screen appears if you access the TV for the first time.



### NOTE

If you do not operate the TV within 40 seconds when the setting menu screen appears, the setting menus will disappear.

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

Language	Selects a language for the display.
↓	
Mode Setting	Selects <b>Home Use</b> for the home environment.
↓	
Power Indicator	Selects the Standby Light. If you select On, the TV turns on the Standby Light in the front panel when the TV is off.
↓	
Country	Selects a country to display.
↓	
Time Zone	Selects the time zone and daylight saving. (When Russia is selected for Country)
↓	
Set Password	Set the password. (When France/Italy is selected for Country)
↓	
Network Setting	(If there is LAN port) selects Network Setting to display. (Only UK, **MA73V models)
↓	
Auto Tuning	Scans and saves available programmes automatically.

 **NOTE**

- For those countries without confirmed DTV broadcasting standards, some DTV features might not work, depending on the DTV broadcasting environment.
- To display images in the best quality for your home environment, select **Home Use mode**.
- **Store Demo** mode is suitable for the retail environment.
- If you select **Store Demo mode**, the previously customized settings will switch to the default settings of **Store Demo mode** in 5 minutes.

5 When the basic settings are complete, press **OK**.

 **NOTE**

If you do not complete the initial setting, it will appear whenever you access the TV.

6 To turn the TV off, press  on the TV.  
The Standby Light is turned on.

 **CAUTION**

Disconnect the power cord from the power outlet when you do not use the TV for a long period of time.

 **NOTE**

- You can also switch the TV from PC mode to TV mode, press **TV/PC**.
- You can also access **Initial Setting** by accessing **OPTION** in the main menus.

## TV display (5:9 OSD)

### Programme Guide

Press the **INFO** button on the remote control while you are watching TV.

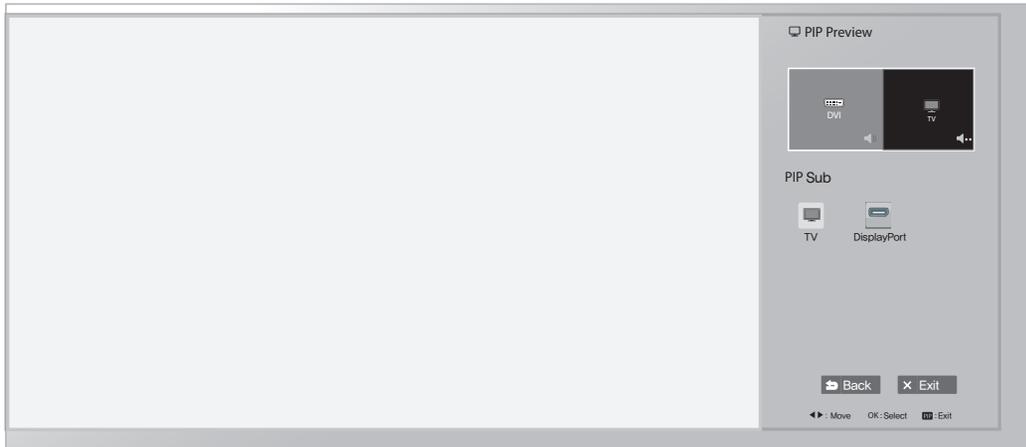
- On the right-hand side (5:9 OSD) of the TV screen, the details of channel you are currently watching and the channel organization information are displayed.
- For analogue TV, the message "No program information" is displayed.
- Only digital TV channels are searched and displayed. If there is no channel available, the message "No program information" is displayed.



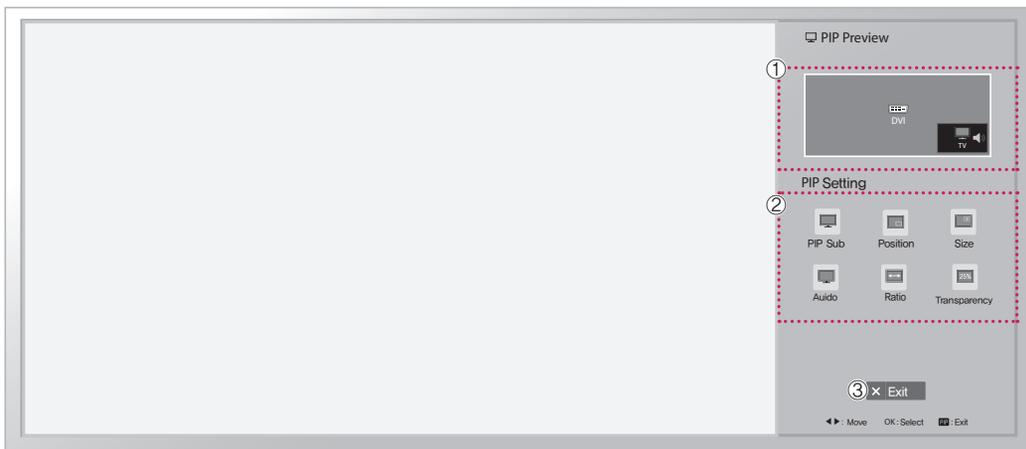
NO.	Description
①	Displays the programme you are currently watching.
②	Displays the broadcasting type of the channel you are currently watching.
③	Displays the broadcasting type icon. (e.g., HD, Dolly, Digital, etc.)
④	Displays the current date and time.
⑤	Displays the current channel or the entire programme list.
⑥	Broadcasting type icon area
⑦	Displays the name of programme you are currently watching.
⑧	Displays the running time of the programme. - Displays the progress including start and end times of the programme.
⑨	Displays the available functions. - If the channel you are currently watching is focused, the Watch function is displayed. - If the channel you are not currently watching is focused, the Schedule function is displayed.
⑩	Displays the program guide for all channels.

## PIP function

Press the **PIP** button on the remote control while you are watching DVI, HDMI1,2, DisplayPort



While watching PIP, press the PIP Settings button on the remote control to display the Sub Menu.



NO.	Description																																													
①	Displays the configured OSD icon and its name.																																													
②	<p>Selects an option for PIP Sub. (See the PIP Map below.)</p> <table border="1" data-bbox="384 323 1186 597"> <thead> <tr> <th colspan="2" data-bbox="384 323 617 401">PIP Map</th> <th colspan="5" data-bbox="617 323 1186 352">PIP Sub</th> </tr> <tr> <th colspan="2" data-bbox="384 352 617 401"></th> <th data-bbox="617 352 734 401">DVI</th> <th data-bbox="734 352 843 401">HDMI1</th> <th data-bbox="843 352 960 401">HDMI2/ MHL</th> <th data-bbox="960 352 1077 401">DisplayPort</th> <th data-bbox="1077 352 1186 401">TV</th> </tr> </thead> <tbody> <tr> <td data-bbox="384 401 493 597" rowspan="5">current input</td> <td data-bbox="493 401 617 441">DVI</td> <td data-bbox="617 401 734 441">X</td> <td data-bbox="734 401 843 441">X</td> <td data-bbox="843 401 960 441">X</td> <td data-bbox="960 401 1077 441">O</td> <td data-bbox="1077 401 1186 441">O</td> </tr> <tr> <td data-bbox="493 441 617 480">HDMI1</td> <td data-bbox="617 441 734 480">X</td> <td data-bbox="734 441 843 480">X</td> <td data-bbox="843 441 960 480">X</td> <td data-bbox="960 441 1077 480">O</td> <td data-bbox="1077 441 1186 480">O</td> </tr> <tr> <td data-bbox="493 480 617 519">HDMI2/ MHL</td> <td data-bbox="617 480 734 519">X</td> <td data-bbox="734 480 843 519">X</td> <td data-bbox="843 480 960 519">X</td> <td data-bbox="960 480 1077 519">O</td> <td data-bbox="1077 480 1186 519">O</td> </tr> <tr> <td data-bbox="493 519 617 558">DisplayPort</td> <td data-bbox="617 519 734 558">O</td> <td data-bbox="734 519 843 558">O</td> <td data-bbox="843 519 960 558">O</td> <td data-bbox="960 519 1077 558">X</td> <td data-bbox="1077 519 1186 558">O</td> </tr> <tr> <td data-bbox="493 558 617 597">TV</td> <td data-bbox="617 558 734 597">X</td> <td data-bbox="734 558 843 597">X</td> <td data-bbox="843 558 960 597">X</td> <td data-bbox="960 558 1077 597">X</td> <td data-bbox="1077 558 1186 597">X</td> </tr> </tbody> </table> <p data-bbox="212 617 1269 695"><b>Position</b> Sets the position of the PIP Sub window. (top left, top right, bottom left or bottom right corner) *This function is disabled when the size is set to [Balanced].</p> <p data-bbox="212 695 1269 735"><b>Size</b> Sets the size of the PIP Sub window. (Small / Medium / Large / Balanced)</p> <p data-bbox="212 735 1269 813"><b>Audio</b> Selects the audio input. *Only the items that are available under the current combination are enabled (PIP Main/PIP Sub or Audio in).</p> <p data-bbox="212 813 1269 872"><b>Ratio</b> Sets the aspect ratio of PIP Sub. *This function is disabled when Size is set to [Balanced].</p> <p data-bbox="212 872 1269 950"><b>Transparency</b> Sets the opacity of PIP. (OFF/25%/50%/75%) *This function is disabled when Size is set to [Balanced].</p>	PIP Map		PIP Sub							DVI	HDMI1	HDMI2/ MHL	DisplayPort	TV	current input	DVI	X	X	X	O	O	HDMI1	X	X	X	O	O	HDMI2/ MHL	X	X	X	O	O	DisplayPort	O	O	O	X	O	TV	X	X	X	X	X
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	HDMI2/ MHL	X	X	X	O	O																																								
	DisplayPort	O	O	O	X	O																																								
	TV	X	X	X	X	X																																								
③	<p><b>Exit button</b> - Exits the OSD menu.</p>																																													

# MAKING CONNECTIONS

Connect various external devices to the TV and switch input modes to select an external device. For more information about an external device's connection, refer to the manual supplied with each device.

Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, camcorders or cameras, gaming devices, and other external devices.

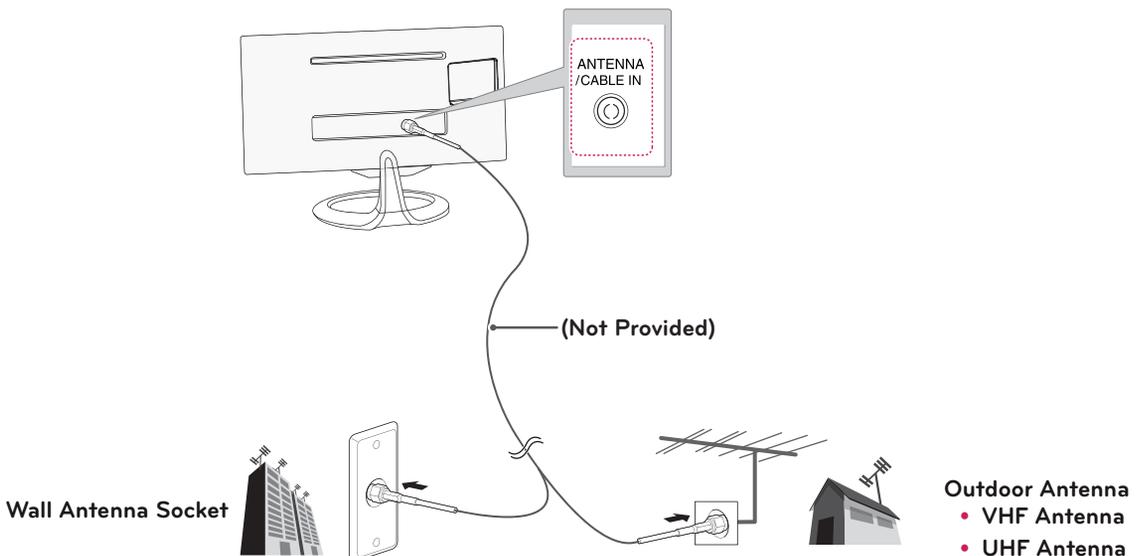
## NOTE

- If you record a TV program on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information about recording, refer to the manual supplied with the connected device.
- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.

## Connecting an antenna

Connect an antenna, cable or cable box to watch TV referring to the following. The illustrations may differ from the actual accessories and an RF cable is optional.

Connect the TV to a wall antenna socket with an RF cable (75 Ω).



## NOTE

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, aim the antenna to the proper direction.
- Visit <http://AntennaWeb.org> for more information about the antenna and cable connection.

## CAUTION

- Make sure not to bend the copper wire of the RF cable.

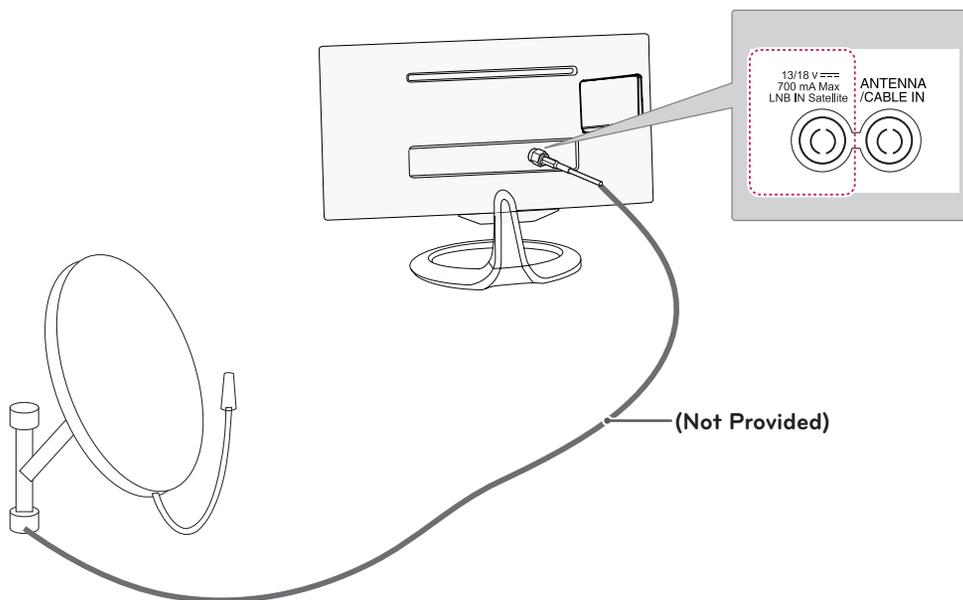


- Complete all connections instructions between devices, and then connect the power cord to the power outlet to prevent damages to your TV.

## Satellite connection

**\*\*MA73V models**

Connect the TV to a satellite dish to a satellite socket with a satellite RF cable (75 Ω).



## Connecting to a HD receiver, DVD Player, VCR or Gaming device

Connect a HD receiver, DVD Player, VCR or Gaming device to the TV and select an appropriate input mode.

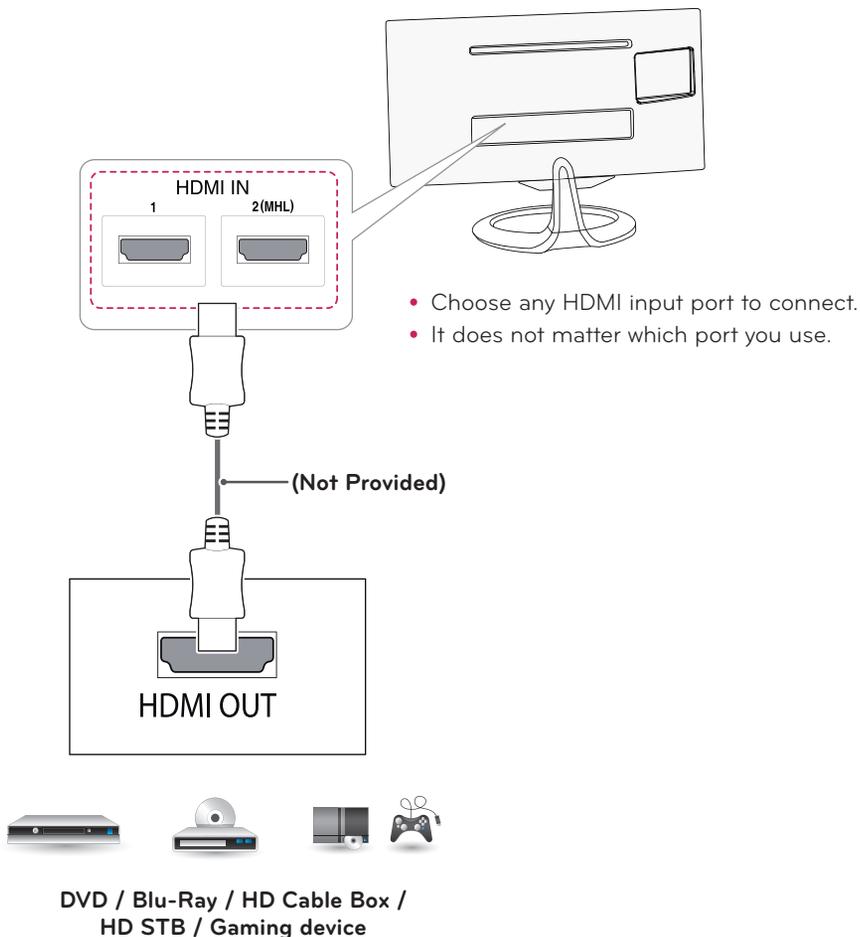
### HDMI connection

**HDMI is the best way to connect a device.**

Transmits the digital video and audio signals from an external device to the TV. Connect the external device and the TV with the HDMI cable as shown on the following illustration.

#### ! NOTE

- HDMI cable to the HDMI input and a digital broadcast receiver, connect the HDMI output. Video, with sound output.
- Press the INPUT button on the remote control to select either HDMI1 or HDMI2/MHL.
- Dolby Digital and DTS are not supported. If no sound is coming out, set the audio output of the connected device to PCM.

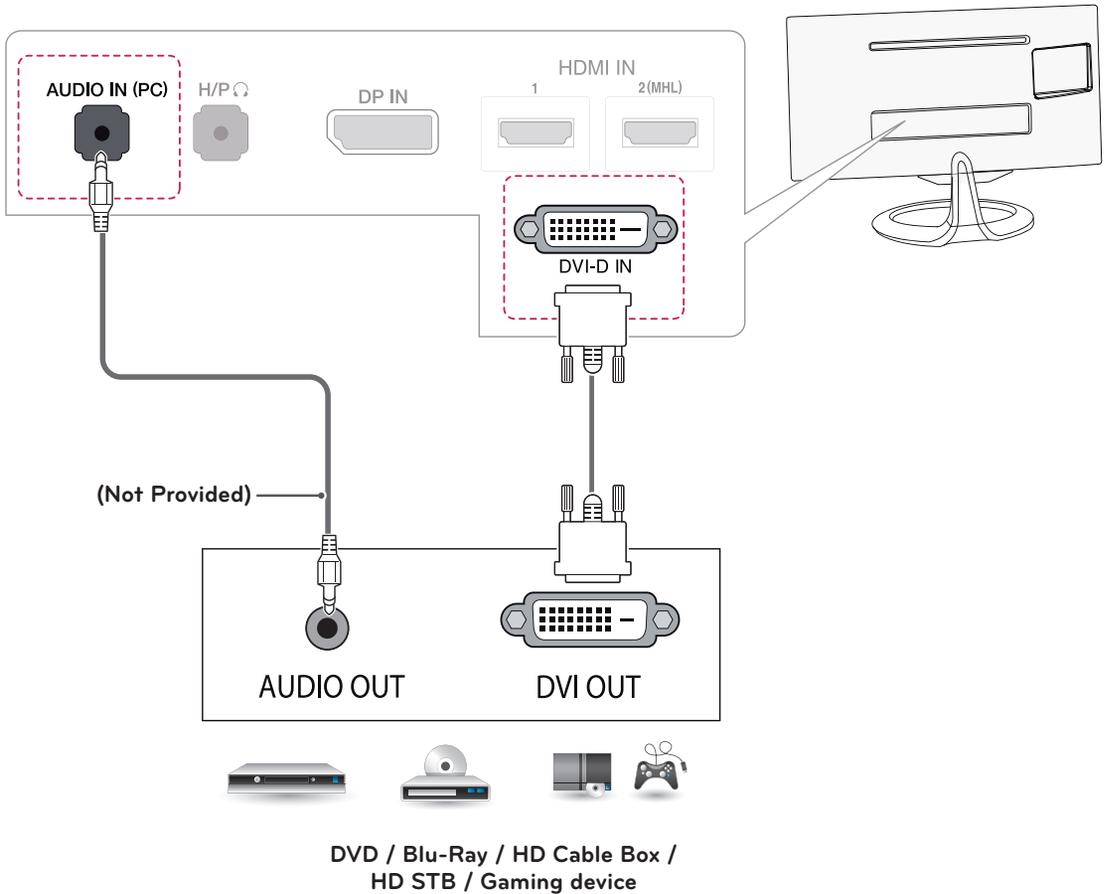


## DVI-D connection

Transmits the digital video signal from an external device to the TV. Connect the external device and the TV with an DVI-D dual cable as shown in the following illustration. To transmit an audio signal, connect an optional audio cable.

**NOTE**

- Please use the DVI-D dual cable provided.
- If you do not use DVI-D dual cable, this may result in distortion on the screen.
- If you do not use an optional external speaker, connect the external device to the TV with an optional audio cable.
- Connect the signal input cable and tighten it by turning the screws clockwise.
- Press the INPUT button on the remote control to select DVI.

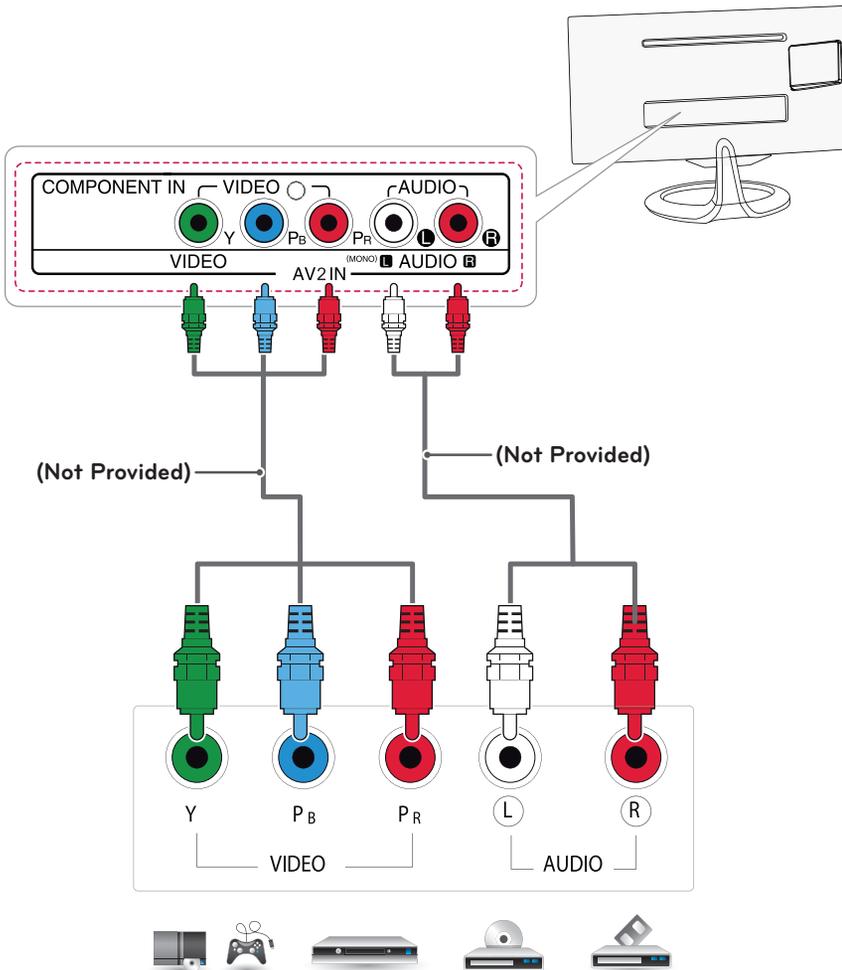


## Component connection

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 on the following illustration. To display images by using progressive scan, make sure to use a component cable.

**NOTE**

- If cables are installed incorrectly, it could cause the image to display in black and white or with distorted color.
- **Check to ensure each cable is matched with the corresponding color connection.**
- Press the INPUT button on the remote control to select Component.



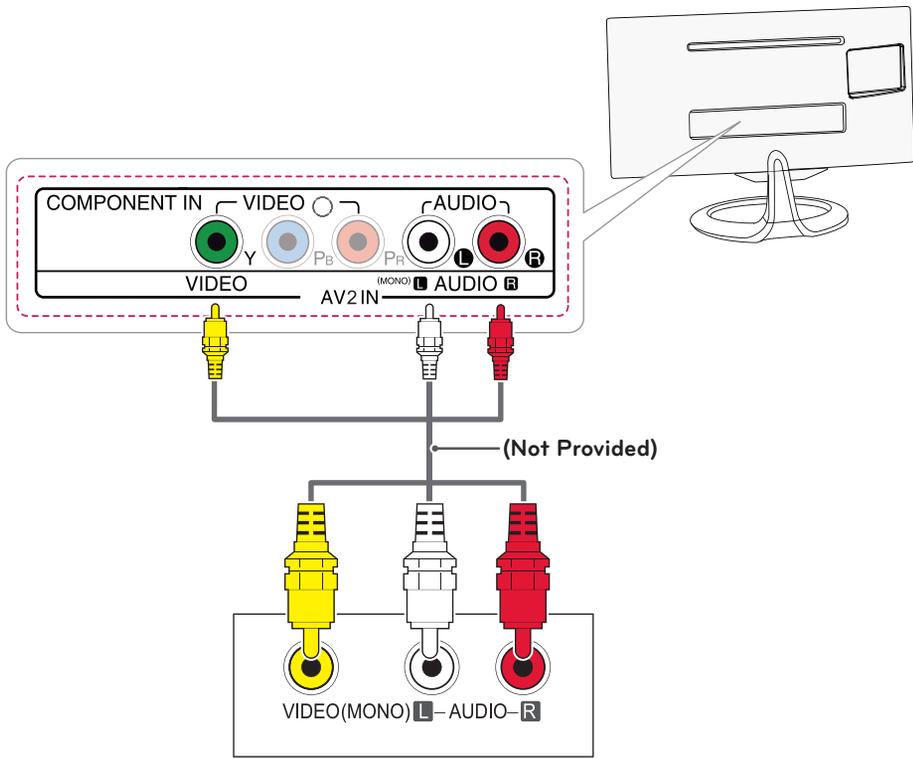
DVD / Blu-Ray / HD Cable Box /  
HD STB / Gaming device

## 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 on the following illustration.

**NOTE**

- Check to ensure each cable is matched with the corresponding color connection.
- Press the INPUT button on the remote control to select AV.



DVD / Blu-Ray / HD Cable Box /  
HD STB / Gaming device

## Euro Scart connection

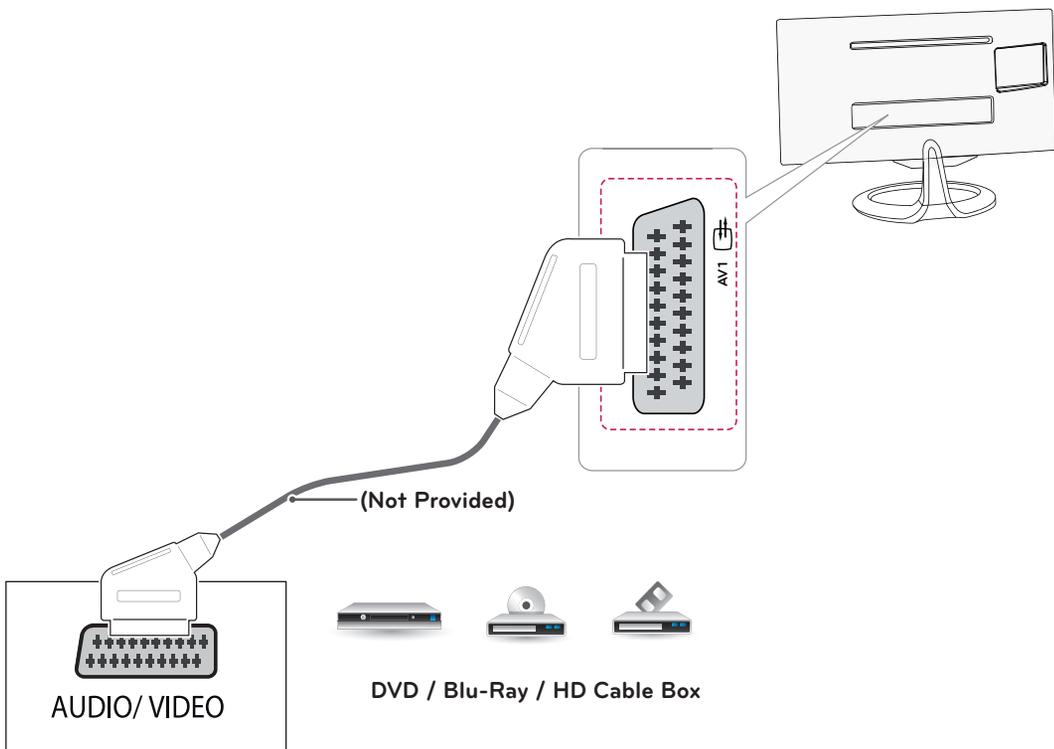
Transmits the video and audio signals from an external device to the TV. Connect the external device and the TV with the Euro Scart cable as shown on the following illustration. To display images by using progressive scan, make sure to use the Euro Scart cable.

Current input mode \ Output Type	AV1 (TV Out <sup>1</sup> )
Digital TV	Digital TV
Analogue TV	Analogue TV
Component, AV, HDMI	Analogue TV

1 TV Out : Outputs Analogue TV or Digital TV signals.

**! NOTE**

Any Euro scart cable used must be signal shielded.

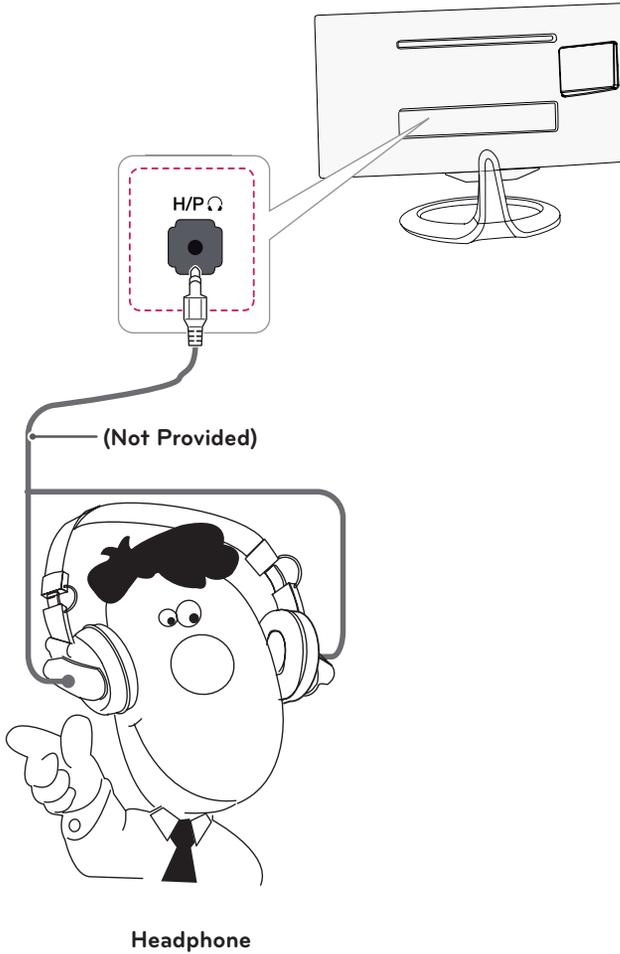


## Headphone connection

Transmits the headphone signal from the TV to an external device. Connect the TV with the headphone as shown on the following illustration.

### ! NOTE

- AUDIO menu items are disabled when connecting a headphone.
- Headphone impedance: 16  $\Omega$
- Max audio output of headphone: 2.5 mW to 5.5 mW
- Headphone jack size: 0.35 cm



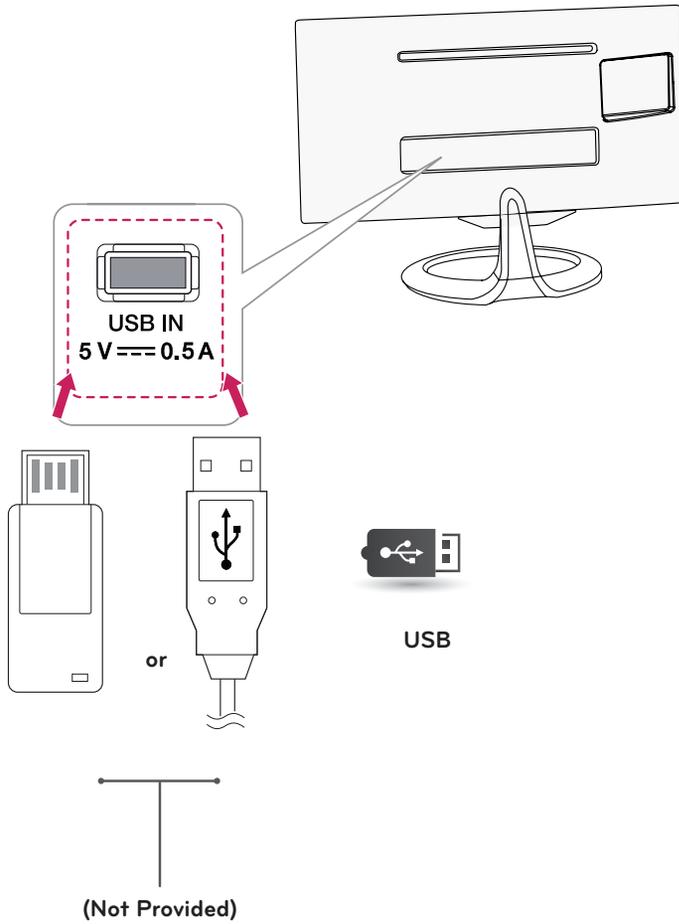
## Connecting a USB Device

Connect a USB storage device such as a USB flash memory, external hard drive, MP3 player or a USB memory card reader to the TV and access the MY MEDIA to use various multimedia files.



**NOTE**

- It may not work when USB 3.0 devices are connected.

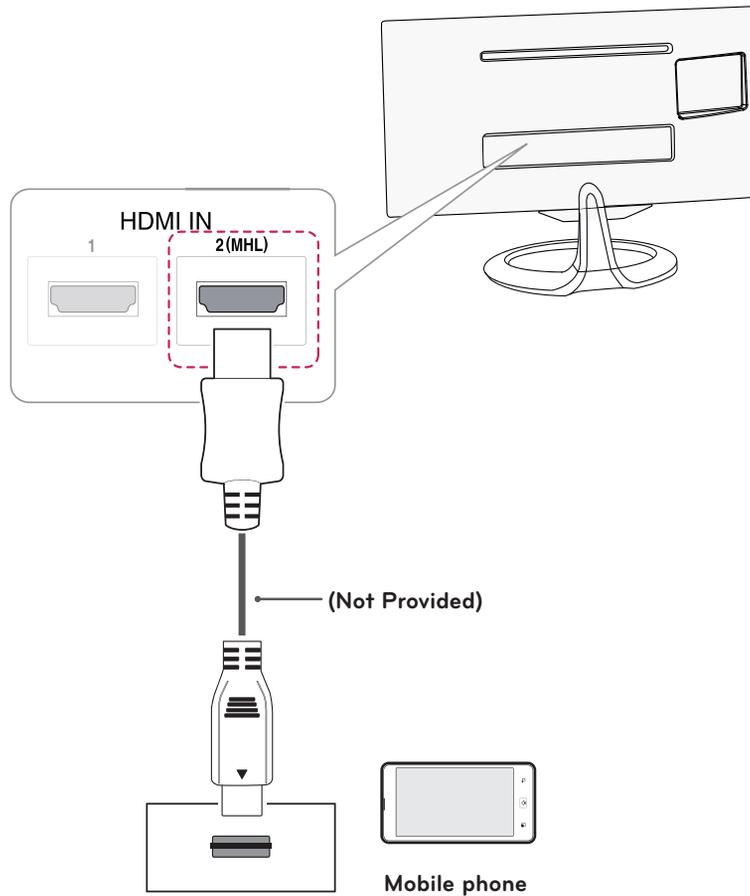


## Smartphone (MHL) connection

**Mobile High-definition Link (MHL)** is an interface that allows you to play video and audio from your smartphone on the monitor by connecting the monitor to your smartphone. Connect the smartphone to the **HDMI2/MHL** port of the monitor using the supplied **MHL signal cable** and switch the input by pressing the input button on the monitor.

### NOTE

- This function only works for smartphones that support MHL.  
- There may be compatibility issues with other mobile phones.
- Use of the MHL remote control is not supported during the PIP operation.



## Connecting to a wired network

### Only UK, \*\*MA73V models

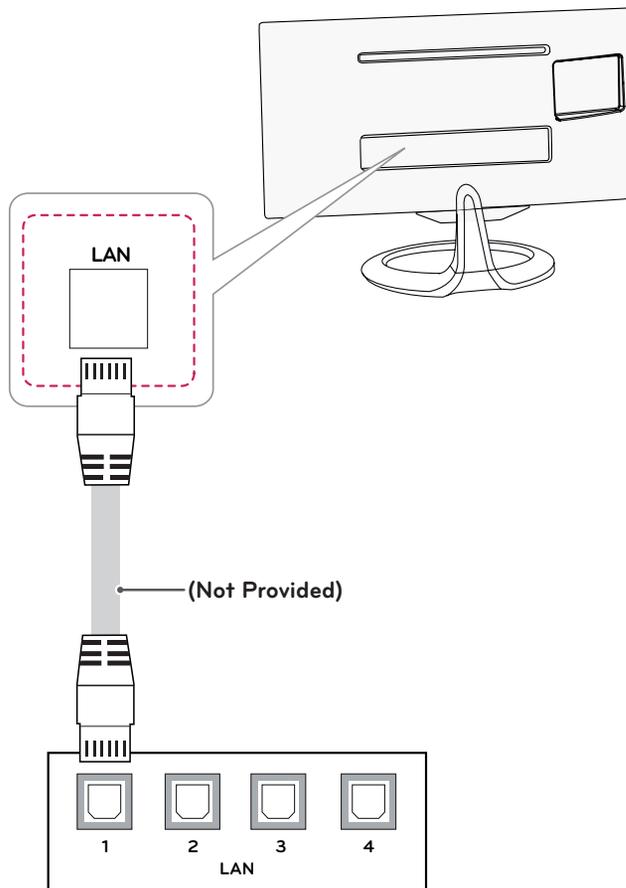
Connect the TV to a local area network (LAN) via the LAN port as shown on the following illustration and set up the network settings. After making a physical connection, a small number of home networks may require the TV network settings to be adjusted. For most home networks, the TV will connect to automatically without any adjustments.

For detail information, contact your internet provider or router manual.



### CAUTION

- Do not connect a modular phone cable to the LAN port.
- Since there are various connection methods, please follow the specifications of your telecommunication carrier or internet service provider.



### NOTE

[\*\*MA73V Model]

- UK: LAN port is available. (The LAN port is added to support HD MHEG.)
- Other areas: LAN port is not available.

## Connecting to a PC

Your TV supports the Plug & Play\* feature.

\* Plug & Play: The function when a PC recognizes a connected device and requires no driver to be installed.



### NOTE

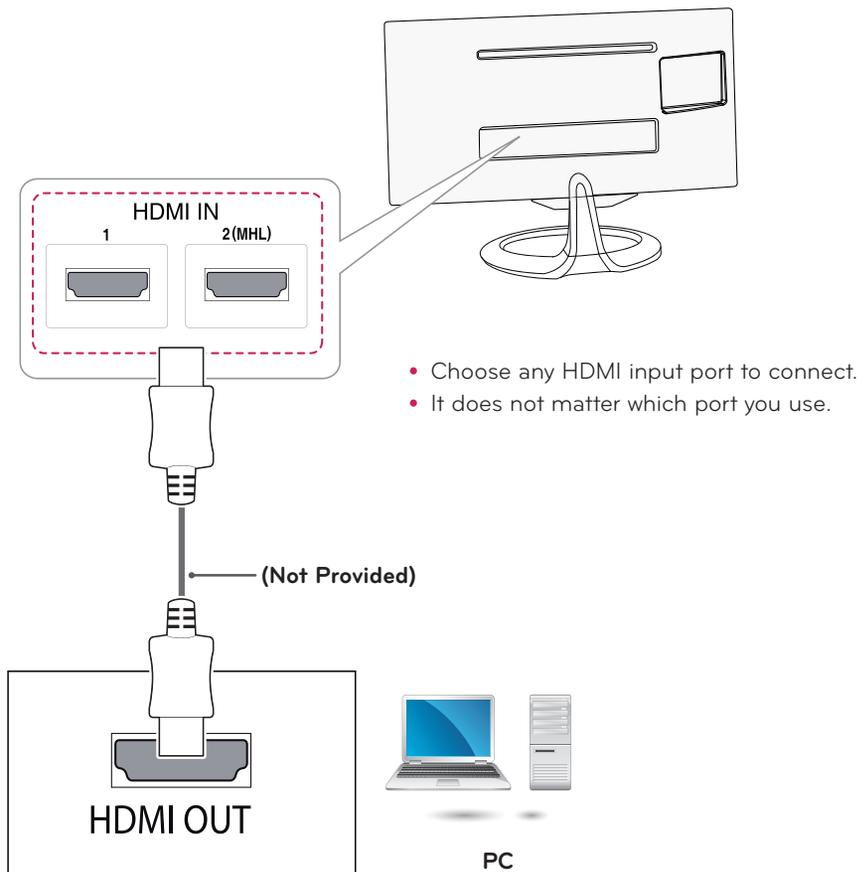
- It is recommended to use an TV with the HDMI connection for the best image quality.
- If you do not use an optional external speaker, connect the PC to the TV with the optional audio cable.
- If you turn the TV on when the set is cold, the screen may flicker. This is normal.
- Some red, green, or blue spots may appear on the screen. This is normal.
- Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for a long time as this may result in temporary distortion on the screen.
- Avoid displaying a fixed image on the screen for a long period of time to prevent image burn. Use a screensaver if possible.
- When connecting the power cord to the outlet, use a grounded (3-hole) multi-socket or a grounded power outlet.
- To comply with the standard specifications of the product, make sure to use a shielded interface cable made with a ferrite core for DVI-D and DVI-to-HDMI cables.

## HDMI connection

Transmits the digital video and audio signals from your PC to the TV. Connect the PC and the TV with an HDMI cable as shown in the following illustrations.

### ! NOTE

- Use a High Speed HDMI™ cable.
- Please check your PC settings if you cannot hear any sound in HDMI mode.
- Press the INPUT button on the remote control to select either HDMI1 or HDMI2/MHL.
- Using a DVI to HDMI cable may cause compatibility issues.
- HDMI PC may cause device compatibility issues.
- Dolby Digital and DTS are not supported. If no sound is coming out, set the audio output of the connected device to PCM.

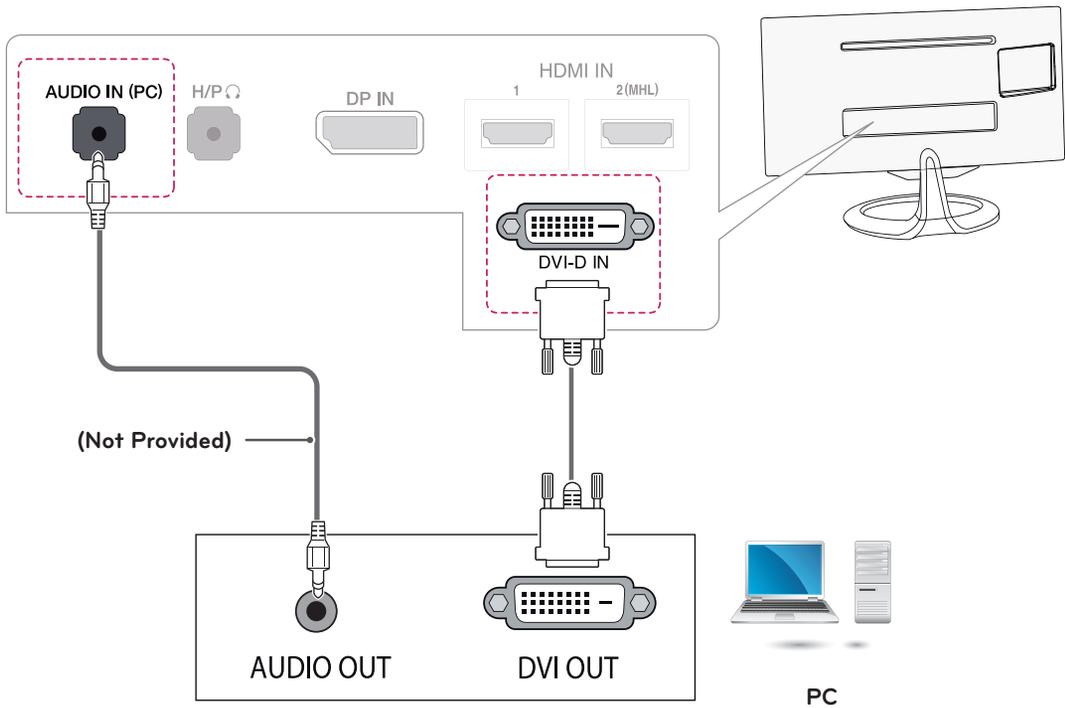


## DVI-D connection

Transmits the digital video signal from your PC to the TV. Connect the PC and an TV with an DVI-D dual cable as shown the following illustrations. To transmit an audio signal, connect an optional audio cable.

### NOTE

- Please use the DVI-D dual cable provided.
- If you do not use DVI-D dual cable, this may result in distortion on the screen.
- If you do not use an optional external speaker, connect the PC to the TV with the optional audio cable.
- Using a DVI to HDMI cable may cause compatibility issues.
- Connect the signal input cable and tighten it by turning the screws clockwise.
- Press the INPUT button on the remote control to select to DVI.

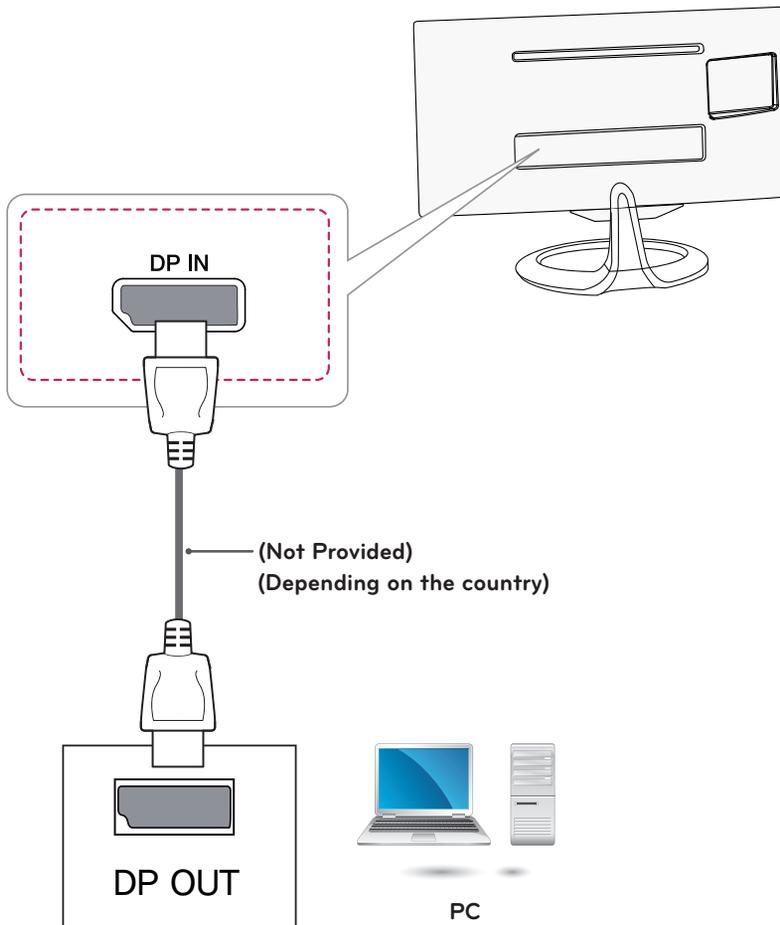


## Display Port connection

Transmits the digital video and audio signals from your PC to the TV. Connect your PC to the TV using the display port cable as illustrated below.

### ! NOTE

- Sound may not hear depending on the DP version of your PC.
- Dolby Digital and DTS are not supported. If no sound is coming out, set the audio output of the connected device to PCM.
- Press the INPUT button on the remote control to select DisplayPort.
- Using a DP-to-HDMI or DP-to-DVI cable may cause compatibility issues.
- HDMI signals are not converted to DP signals.
- If you use a DP-to-HDMI cable, you can watch your media on a PC or other device with DP output by using the HDMI or DVI input port.



# REMOTE CONTROL

The descriptions in this manual are based on the buttons of the remote control. Please read this manual carefully and use the TV correctly.

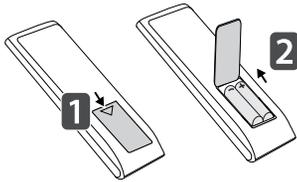
To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover.

To remove the batteries, perform the installation actions in reverse.

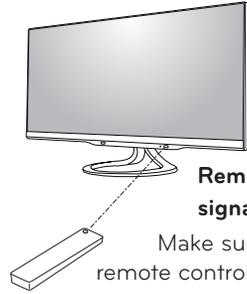


**CAUTION**

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



**CAUTION**

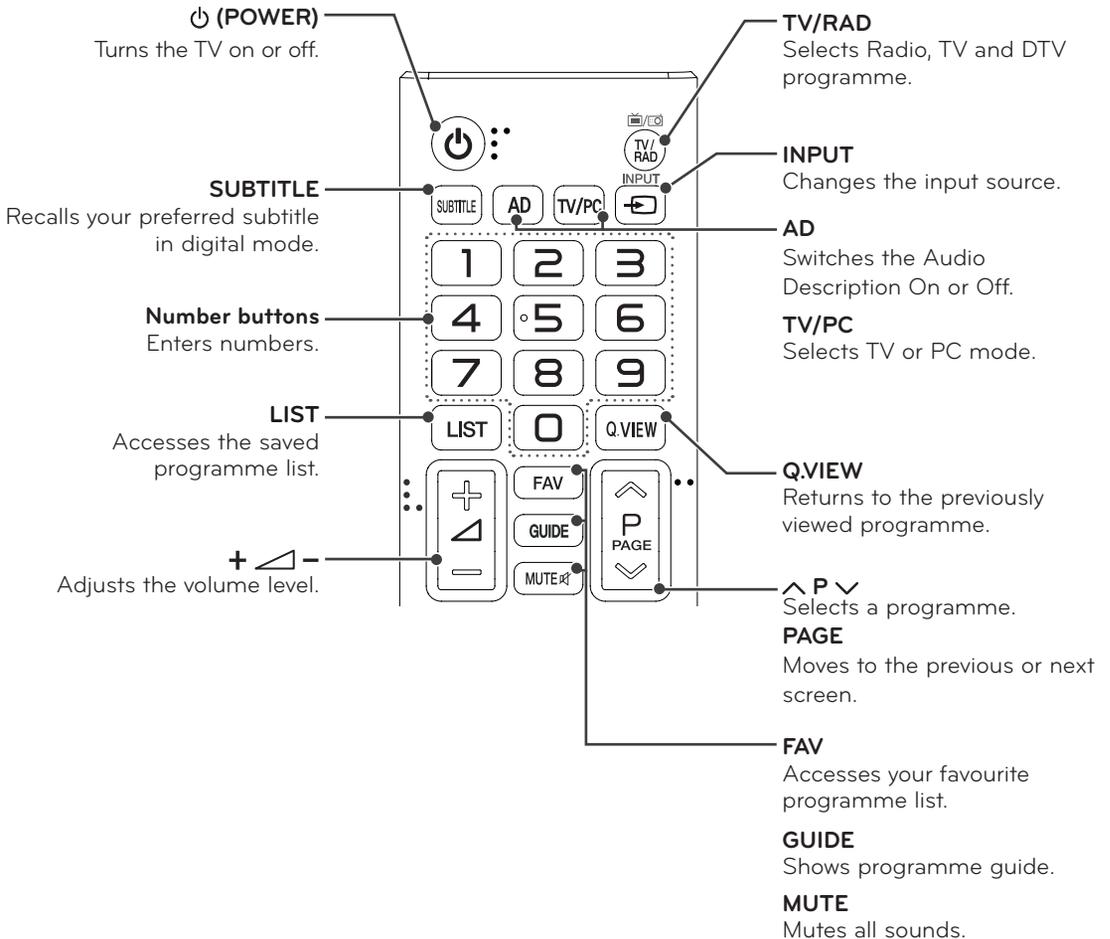


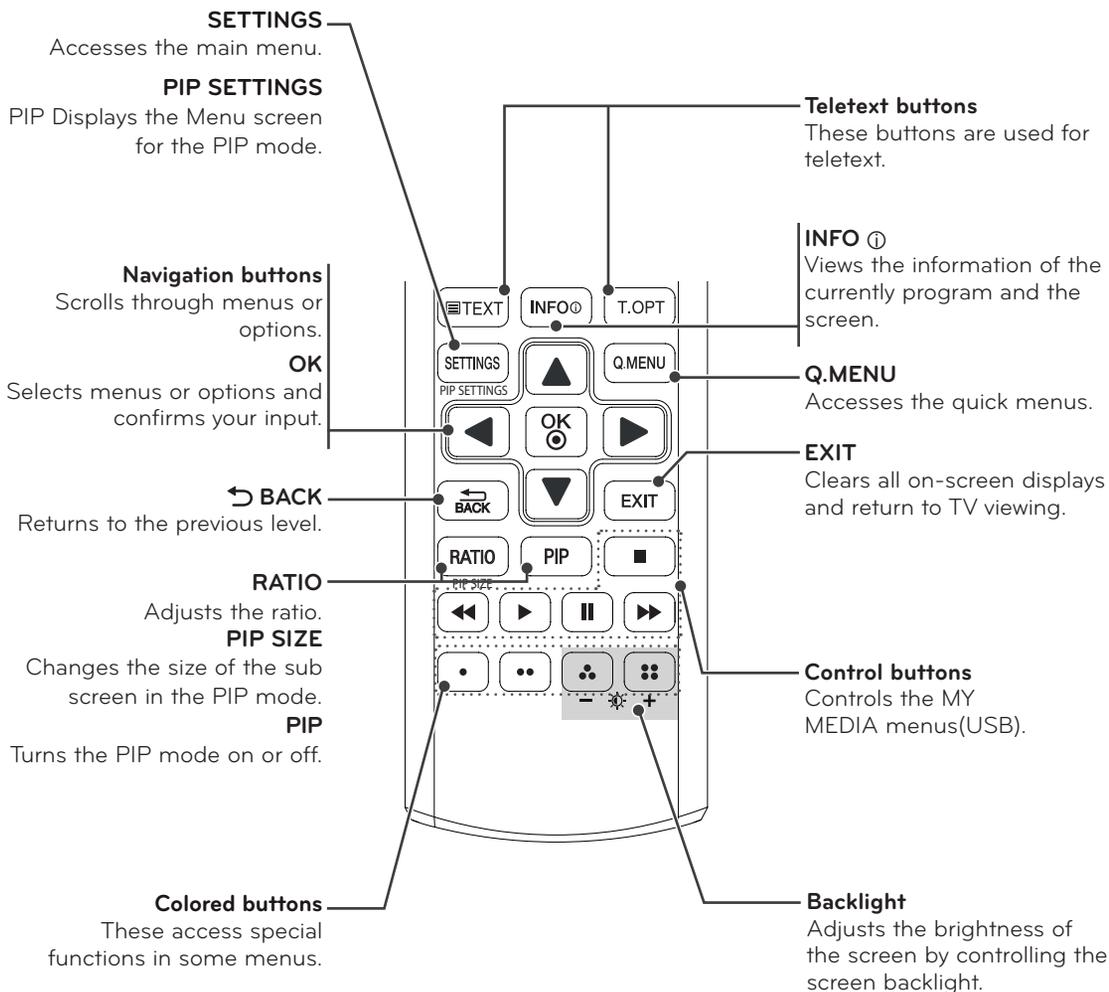
**Remote control signal receiver**

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

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

Image shown may differ from your TV.

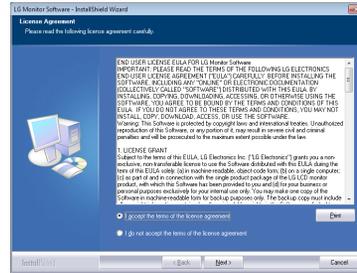




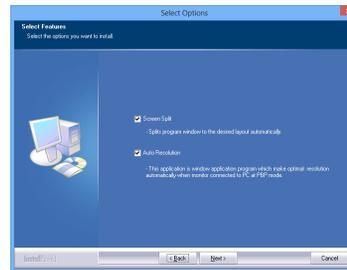
# INSTALLING SCREEN SPLIT

Insert the the owner's manual CD included in the product package into your PC's CD driver and install the screen split.

- 1 Check "I accept the terms of the agreement" on the License Agreement screen and then click the [Next] button.



- 2 Select the program that you want to install.

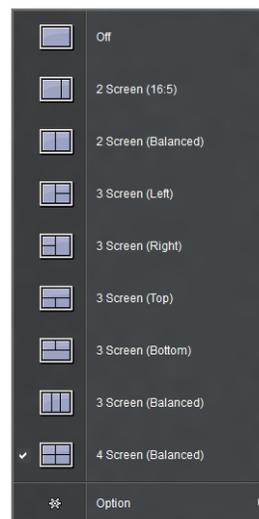


## NOTE

If you run Screen Split, the Screen Split icon [  ] appears in the system tray at the right bottom of the PC screen.



Right-click the Screen Split icon and select a layout you want.



# CUSTOMIZING SETTINGS

## Accessing the Main Menus

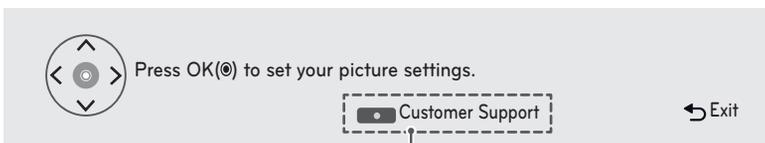
The menus displayed on the TV screen may vary depending on the selected input mode.

### TV, Component, AV

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.  
When you return to the previous menu, press **↶ BACK**.

<b>PICTURE</b>	Adjusts the image size, quality or effect.
<b>AUDIO</b>	Adjusts the sound quality, effect or volume level.
<b>SETUP</b>	Sets up and edit programmes.
<b>TIME</b>	Sets the time, date or Timer feature.
<b>LOCK</b>	Locks or unlocks channels and programs.
<b>OPTION</b>	Customizes the general settings.
<b>INPUT</b>	Views the input sources with their labels. (Except: UK country **MA73V models)
<b>NETWORK</b>	Sets the network. (Apply: UK country **MA73V models)
<b>MY MEDIA</b>	Using integrated media feature.

- Press **RED** button to access the **Customer Support** menus.



#### Customer Support

Using Customer Support feature.

- Software Update
- Picture Test
- Sound Test
- Signal Test
- Product/Service Info.
- Network Test (Apply: UK country \*\*MA73V models)
- User Guide

## PICTURE



## To adjust Aspect Ratio

SETTINGS> PICTURE> Aspect Ratio	Description
16:9	Resizes the image ratio to fit 16:9 screen.
21:9	Resizes the image ratio to fit 21:9 screen.
Just Scan	Displays video images in the original size without removing parts of the edge of the image. In DTV, Component, HDMI, and DVI (over 720p) mode, Just Scan is available.
Full Wide	When TV receives the wide screen signal, it will let you adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully. 4:3 and 14:9 video is supported in full screen without any video distortion through DTV input.
4:3	Resizes the image ratio to fit 4:3 screen.
14:9	You can view a picture format of 14:9 or a general TV programme in the 14:9 mode. The 14:9 screen is viewed in the same way as in 4:3, but is moved up or down.
Zoom	Resizes the image to fit the screen width. The top and bottom parts of the image may be cut off.
Cinema Zoom 1	Formats an image to the cinemascope ratio (2.35:1) and zooms in on the ratio.

## To select Picture Mode

SETTINGS> PICTURE> Picture Mode	Description
Select the picture mode optimized for the viewing environment or the program. Depending on input signal, available range of picture modes may differ.	
Expert mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be drastic.	
Vivid / Standard / Cinema / Game	Select a Picture Mode of your choice.
Eco	The Energy Saver feature changes settings on the TV to reduce power consumption.
Expert 1 Expert 2	Menu for adjusting picture quality that allows experts and amateurs to enjoy the best TV viewing. This menu for adjustment is provided for ISF-certified picture tuning professionals. (ISF logo can only be used on ISF-certified TVs.) ISFccc: Imaging Science Foundation Certified Calibration Control

## To fine-tune picture mode

SETTINGS> PICTURE> Picture Mode> Backlight / Contrast / Brightness / Sharpness / Color / Tint / Color Temp.	Description
First select a Picture Mode of your choice. Depending on the input signal or other picture settings, the range of detailed items for adjustment may differ.	
Backlight	Adjusts the screen brightness by changing the brightness of the panel.
Contrast	Adjusts the color contrast and brightness of the screen.
Brightness	
Sharpness	Adjusts the sharpness of the screen.
Color	Adjusts the color depth of the screen.
Tint	Adjusts the gamma, color temperature and color of the screen.
Color Temp.	Adjusts the overall tint of the picture. In Expert mode, you can fine-tune the picture using the Gamma or Method options.

## To set Expert Control

SETTINGS> PICTURE> Picture Mode> Advanced Control / Expert Control	Description
For each picture mode, screen can be calibrated; or for a special screen, picture settings can be adjusted. Select the desired Picture Mode. Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.	
<b>Dynamic Contrast</b>	Adjusts the contrast to the optimal level according to the image's brightness.
<b>Dynamic Color</b>	Adjusts colors to make the image appear in more natural colors.
<b>Skin Color</b>	Skin color spectrum can be separately set to implement the skin color defined by the user.
<b>Grass Color</b>	Natural color spectrum (meadows, hills, etc.) can be separately set.
<b>Sky Color</b>	Sky color is set separately.
<b>Gamma</b>	Sets the gradation curve according to the output of picture signal in relation to the input signal.
SETTINGS> PICTURE> Picture Mode>Expert Control	Description
<b>Dynamic Contrast</b>	Adjusts the contrast to the optimal level according to the image's brightness.
<b>Color Gamut</b>	Selects the range of colors that can be expressed.
<b>Edge Enhancer</b>	Shows clearer and distinctive yet natural edges of the video.
<b>Expert Pattern</b>	Patterns used for expert adjustment.
<b>Color Filter</b>	Filters a specific color spectrum in RGB colors to fine-tune color saturation and hue accurately.
<b>Color Temperature</b>	Adjusts the overall tone of the screen as desired. In Expert mode, detailed fine-tuning can be set via Gamma method, etc.
<b>Color Management System</b>	This system is used by experts to adjust color with a test pattern. They can select from six color areas (Red/ Green/Blue/Cyan/Magenta/Yellow) without affecting other colors. For normal images, adjustments may not result in noticeable color changes.

## To set Picture Option

SETTINGS> PICTURE> Picture Mode> Picture Option	Description
Adjusts detailed setting for images.	
<b>Noise Reduction</b>	Reduces screen noise in the video.
<b>MPEG Noise Reduction</b>	Eliminates noise generated while creating digital picture signals.
<b>Black Level</b>	Adjusts the screen's brightness and contrast to fit them to the input picture's black level by using the blackness (black level) of the screen.
<b>Real Cinema</b>	Helps maintain the optimal state of the screen.
<b>Motion Eye Care</b>	Saves power consumption by adjusting the brightness corresponding to the movement of the image on the screen.

## To set Picture Reset

SETTINGS> PICTURE> Picture Mode> Picture Reset	Description
Initializes picture settings that the user customizes. Each picture mode is reset. Select the desired picture mode to reset.	



## AUDIO

## To use Sound Mode

SETTINGS> AUDIO> Sound Mode	Description
	Adjusts TV audio to an optimal level based on a selected sound mode.
<b>Standard</b>	Suitable for all types of video.
<b>Music / Cinema / Sport / Game</b>	Sets audio optimized for a specific genre.

## To adjust User Setting function

SETTINGS> AUDIO> Sound Mode> User Setting	Description
	Adjusts the volume to a level of your choice using the User EQ.
<b>Reset</b>	Resets voice options that the user has changed.

## To set various sound options

To use Virtual Surround feature

SETTINGS> AUDIO> Virtual Surround	Description
	LG's proprietary audio processing technology allows 5.1ch-like surround sound from two speakers. When Clear Voice II is set to On, Virtual Surround cannot be selected.

To adjust Clear Voice II function

SETTINGS> AUDIO> Clear Voice II	Description
	Boosts voice clarity from the TV.

To set Auto Volume

SETTINGS> AUDIO> Auto Volume	Description
	Sets Auto Volume to ON and volume output from channel to channel is automatically adjusted for convenient TV watching when clicking through different channels.

To set sound out

SETTINGS> AUDIO> Sound Out	Description
<b>TV Speaker</b>	Sound is output through the TV speaker.
<b>Headphone</b>	Sound is output through the headphone connected to the earphone/headphone port.

To set AV Sync

SETTINGS> AUDIO> AV Sync. Adjust	Description
	Synchronizes unmatched video and audio. Select AV Sync. Adjust to On to synchronize audio output (TV speaker) with the video.

To adjust audio balance

SETTINGS> AUDIO> Balance	Description
	Adjusts left/right audio balance.

To use Sound Optimizer function

SETTINGS> AUDIO> Sound Optimizer	Description
	Allows optimized sound for individual TV installation.
<b>Normal</b>	General sound mode.
<b>Wall Mount Type</b>	Optimizes sound for a wall-mounted TV.
<b>Stand Type</b>	Optimizes sound for a stand-mounted TV.

## LOCK



To set the password

SETTINGS> LOCK> Set Password	Description
	Set or change the TV password. The initial password is set as [0000].

To lock the system

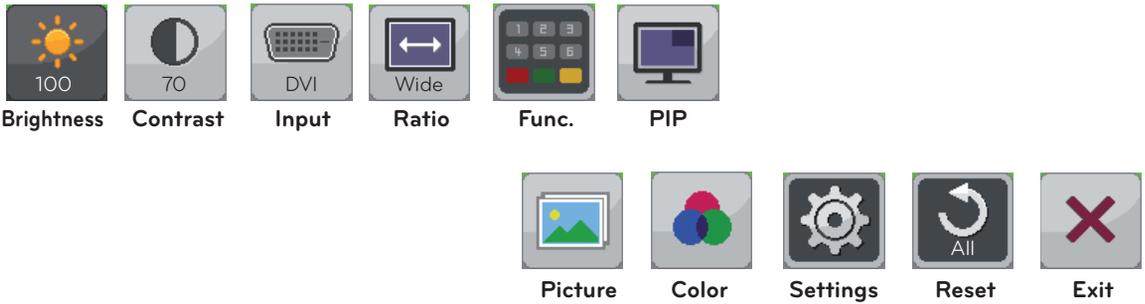
SETTINGS> LOCK> Lock System	Description
	Permits only specific programs by blocking channels. At first, select <b>Lock System</b> to <b>ON</b> .
<b>Block Programme</b>	Blocks programmes with content inappropriate for children. Programmes can be selected but the screen is blank and the audio is muted. To watch a locked programme, enter the password.
<b>Parental Guidance</b>	This function operates according to information from the broadcaster. Therefore if the signal has incorrect information, this function does not operate. Prevents children from watching certain adult TV programmes according to the ratings limit set. Enter a password to watch a blocked programme. Ratings differ by country.

To use Key Lock

SETTINGS> LOCK> Key Lock	Description
	Locks control buttons on the TV. Key Lock function remains intact even in case of power outage or when the power cord is removed from the wall socket. Key Lock function can only be set by remote control, and not by the button on the TV. Even with Key Lock ON, TV's buttons can turn on the power.

## DVI, HDMI1, HDMI2/MHL, DisplayPort

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.  
When you return to the previous menu, press ↶ **BACK**.



Each option is described below.

Menu	Description
<b>Brightness</b>	Adjusts the brightness and contrast of the screen.
<b>Contrast</b>	
<b>Input</b>	Selects the current input mode.
<b>Ratio</b>	Adjusts the screen ratio.
<b>Func.</b>	Adjusts SES and picture mode.
<b>PIP</b>	Displays the screens of two input modes on one monitor.
<b>Picture</b>	Adjusts the sharpness, black level, and response time of the screen.
<b>Color</b>	Adjusts the gamma, color temperature and color balance of the screen.
<b>Settings</b>	Sets the Language, PC/AV mode, Main Audio, Standby Light, DP 1.2 and Key Lock.
<b>Reset</b>	Resets to the default settings as of the day of purchase.
<b>Exit</b>	Exits the OSD menu.

## Ratio Settings

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.  
When you return to the previous menu, press **BACK**.



Ratio

## Sub Menu



Wide

Cinema1

Cinema2

Original

1:1

Back

Exit

Each option is described below.

Menu > Ratio	Description
<b>Wide</b>	Displays the video in wide-screen, regardless of the video signal input.
<b>Cinema1</b>	Enlarges the screen with an aspect ratio of 21:9. (at 1080p)
<b>Cinema2</b>	Enlarges the screen with an aspect ratio of 21:9 including the black box area at the bottom for subtitles. (at 1080p)
<b>Original</b>	Displays a video according to the input video signal aspect ratio.
<b>1:1</b>	The aspect ratio is not adjusted from the original.
<b>Back</b>	Moves to the previous OSD screen.
<b>Exit</b>	Exits the OSD menu.

**NOTE**

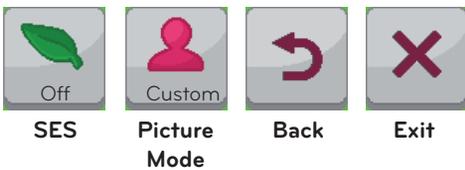
- The display may look the same for Wide, Original and 1:1 options at the recommended resolution (2560 x 1080).
- The ratio is disabled in the interlaced signal.

Func. Settings

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.  
When you return to the previous menu, press **BACK**.



Sub Menu

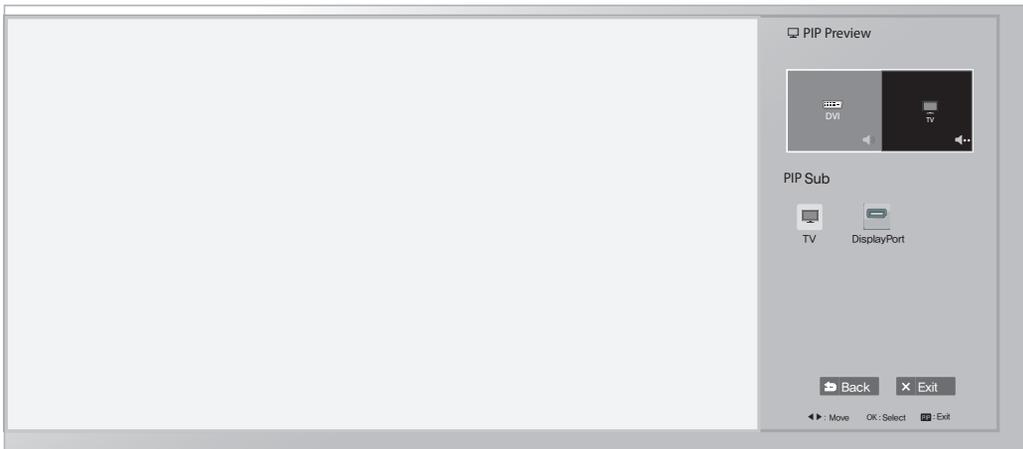


Each option is described below.

Menu > Func.	Description	
<b>SES (Super Energy Saving)</b>	<b>On</b>	Enables the SES function, which allows you to save energy according to the SES efficiency level.
	<b>Off</b>	Disables the SES function.
<b>Picture Mode</b>	Changes depending on the value of PC/AV Mode in Menu > Settings.	
	<b>PC Mode</b>	
	<b>Custom</b>	Allows the user to adjust each element. The color mode of the main menu can be adjusted.
	<b>Text</b>	Optimizes the screen for document processing.
	<b>Photo</b>	Optimizes the screen to view photos.
	<b>Cinema</b>	Optimizes the screen to improve the visual effects of a video.
	<b>Game</b>	Optimizes the screen for gameplay.
	<b>AV Mode</b>	
	<b>Custom</b>	Allows the user to adjust each element. The color mode of the main menu can be adjusted.
	<b>Standard</b>	Optimizes the screen to display normal picture quality.
	<b>VIVID 1</b>	Optimizes the screen for vivid visual effects.
	<b>VIVID 2</b>	Optimizes the screen for more vivid visual effects.
	<b>Cinema</b>	Optimizes the screen to improve the visual effects of a video.
<b>Back</b>	Moves to the previous OSD screen.	
<b>Exit</b>	Exits the OSD menu.	

PIP settings

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.



Each option is described below.

<b>PIP Sub</b>	Selects an option for PIP Sub. (See the PIP Map below.)						
	<b>PIP Map</b>		<b>PIP Sub</b>				
			DVI	HDMI1	HDMI2/MHL	DisplayPort	TV
	<b>current input</b>	DVI	X	X	X	O	O
		HDMI1	X	X	X	O	O
		HDMI2/MHL	X	X	X	O	O
DisplayPort		O	O	O	X	O	
TV		X	X	X	X	X	

Picture

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.  
When you return to the previous menu, press **BACK**.



Picture

Sub Menu



Sharpness   Black Level   Response Time   Reset   Back   Exit

Each option is described below.

Menu > Picture	Description
<b>Sharpness</b>	Adjusts the sharpness of the screen.
<b>Black Level</b>	Sets the offset level (for HDMI only). <b>Offset:</b> as a reference for a video signal, this is the darkest color the monitor can display.
	<b>High</b> The picture of the screen gets brighter.
	<b>Low</b> The picture of the screen gets darker.
<b>Response Time</b>	Sets a response time for displayed pictures based on the speed of the screen. For a normal environment, it is recommended that you use Normal. For a fast-moving picture, it is recommended that you use High. Setting to High may cause image sticking.
	<b>High</b> Sets the response time to High.
	<b>Middle</b> Sets the response time to Middle.
	<b>Low</b> Sets the response time to Low.
<b>Reset</b>	Resets the Picture function to the default settings.
<b>Back</b>	Moves to the previous OSD screen.
<b>Exit</b>	Exits the OSD menu.

Color

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.  
When you return to the previous menu, press **BACK**.



Color

Sub Menu



Each option is described below.

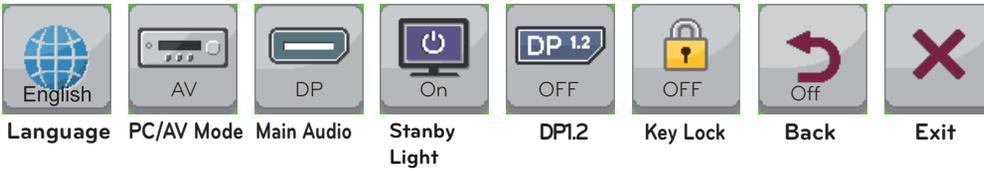
Menu > Color	Description
<b>Gamma</b>	Custom gamma setting: When using the gamma 0, gamma 1, and gamma 2 monitor settings, higher gamma settings mean a brighter image is displayed and vice versa.
<b>Color Temp</b>	Selects the factory default picture color. <b>Warm:</b> Sets the screen color to a reddish tone. <b>Medium:</b> Sets the screen color between a red and blue tone. <b>Cool:</b> Sets the screen color to a bluish tone. <b>Custom</b> You can customize the picture color.
<b>Red / Green / Blue</b>	You can customize the picture color using Red, Green, and Blue colors.
<b>Six Color</b>	Meets the user requirements for colors through adjusting the color and saturation of the six colors (red, green, blue, cyan, magenta, yellow) and saving the settings. <b>Hue</b> Adjusts tone of the screen. <b>Saturation</b> Adjusts the saturation of the screen colors. The lower the value, less saturated and bright the colors become. The higher the value, the more saturated and dark the colors become.
<b>Reset</b>	Returns the color settings to the default settings.
<b>Back</b>	Moves to the previous OSD screen.
<b>Exit</b>	Exits the OSD menu.

Settings

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.  
When you return to the previous menu, press **BACK**.



Sub Menu



Each option is described below.

Menu > Settings	Description	
<b>Language</b>	Sets the menu screen to the desired language.	
<b>PC/AV Mode</b>	Enabled in HDMI mode only.	
<b>Main Audio</b>	The sound coming through the Audio In port of the digital input signal (HDMI, HDMI2/MHL, Display Port) can be heard through the monitor's speakers.	
<b>Stanby Light</b>	Turns the power indicator on the front side of the monitor on/off.	
	<b>On</b>	The Stanby Light is automatically turned on.
	<b>Off</b>	The Stanby Light is turned off.
<b>DP1.2 (DisplayPort1.2)</b>	Activates or deactivates DisplayPort 1.2.	
	<div style="border: 1px solid black; padding: 5px;"> <p> <b>NOTE</b> — Make sure to activate or deactivate according to the DisplayPort version supported by the graphics card. Set it to off if it is not compatible with the graphics card.</p> </div>	
	<b>On</b>	DisplayPort 1.2 is activated.
	<b>Off</b>	DisplayPort 1.2 is deactivated.
<b>Key Lock</b>	Prevents incorrect key input.	
	<b>On</b>	Key input is disabled.
	<b>Off</b>	Key input is enabled.
<b>Back</b>	Moves to the previous OSD screen.	
<b>Exit</b>	Exits the OSD menu.	

# USING THE USER GUIDE

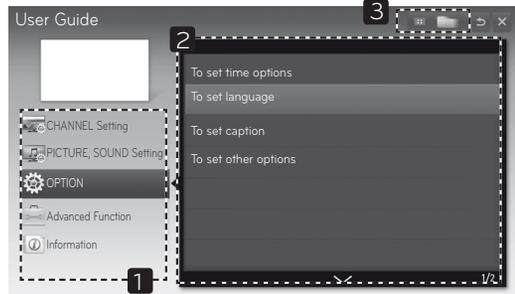
**NOTE**

- This function is available only in TV, AV or Component input mode.

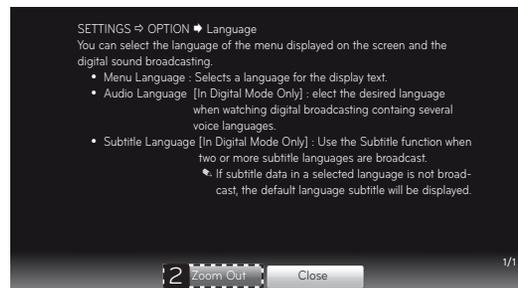
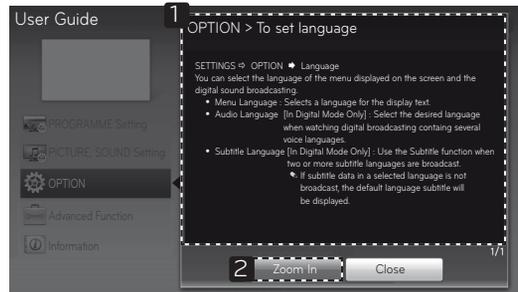
## Accessing the On-Screen User Guide

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the **RED** button to access the **Customer Support** menus.
- 3 Press the Navigation button to scroll to **User Guide** and press **OK**.
- 4 Press the Navigation buttons to scroll to the option you want and press **OK**.
- 5 When you are finished, press **EXIT**.  
When you return to the previous menu, press **BACK**.

- Image shown may differ from your TV.



- 1 Allows to select the category you want.
- 2 Allows to select the item you want. You can use **^**/**v** to move between pages.
- 3 Allows to browse the description of the function you want from the index.



- 1 Shows the description of the selected menu. You can use **^**/**v** to move between pages.
- 2 Zooms in or out the screen.

# MAINTENANCE

## Cleaning Your TV

Clean your TV regularly to keep the best performance and to extend the product's lifespan.



### CAUTION

- Make sure to turn the power off and disconnect the power cord and all other cables first.
- When the TV is left unattended and unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

## Screen and frame

To remove dust, wipe the surface with a dry and soft cloth.

To remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a clean and dry cloth.



### CAUTION

- Do not push, rub, or hit the surface with your fingernail or a sharp object, as this may result in scratches on the screen and image distortions.
- Do not use any chemicals, such as waxes, benzene, alcohol, thinners, insecticides, air fresheners, lubricants, as these may damage the screen's finish and cause discolorations.

## Cabinet and stand

To remove dust, wipe the cabinet with a dry and soft cloth.

To remove major dirt, wipe the cabinet with a soft cloth dampened in a clean water or water containing a small amount of mild detergent.



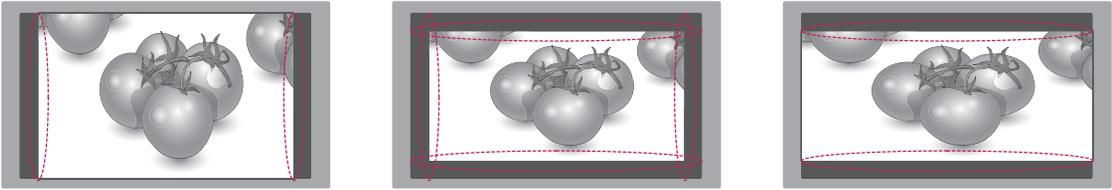
### CAUTION

- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.
- Do not use any chemicals as this may deteriorate the surface.

## Power cord

Remove the accumulated dust or dirt on the power cord regularly.

## Preventing "Image burn" or "Burn-in" on your TV screen



- If a fixed image displays on the TV screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and not covered by the warranty.
- If the aspect ratio of the TV is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.
- Avoid displaying a fixed image on the TV screen for a long period of time (2 or more hours for LCD) to prevent image burn.

# TROUBLE SHOOTING

Nothing is displayed on the screen.	
Is the monitor's power cord plugged in?	<ul style="list-style-type: none"> <li>• Check if the power cord is correctly plugged in to the power outlet.</li> </ul>
Is the power indicator on?	<ul style="list-style-type: none"> <li>• Check the power cable connection and press the power button.</li> </ul>
Is the power indicator displaying red?	<ul style="list-style-type: none"> <li>• Check that the connected input is enabled (Menu - Input).</li> </ul>
Is the power indicator blinking?	<ul style="list-style-type: none"> <li>• If the monitor is in power-saving mode, move the mouse or press any key on the keyboard to switch the display on.</li> <li>• Check if the computer is turned on.</li> </ul>
Is the "OUT OF RANGE" message displayed?	<ul style="list-style-type: none"> <li>• This occurs when signals transferred from the PC (video card) are out of the horizontal or vertical frequency range of the monitor. Please see the "Product Specification" section of this manual to set the appropriate frequency.</li> </ul>
Is the "CHECK SIGNAL CONNECTION" message is displayed?	<ul style="list-style-type: none"> <li>• This is displayed when the signal cable between the PC and the monitor is missing or disconnected. Check the cable and reconnect.</li> </ul>

The "OSD LOCKED" message is displayed.	
Are some functions unavailable when pressing the Menu button?	<ul style="list-style-type: none"> <li>• The OSD is locked. Go to Menu &gt; Settings and set "OSD Lock" to Unlock.</li> </ul>

The screen retains an image.	
Does image sticking occur even when the monitor is turned off?	<ul style="list-style-type: none"> <li>• Displaying a still image for a prolonged time may cause damage to the screen, resulting in the retention of the image.</li> <li>• Use a screen saver to protect the screen when using the monitor for a prolonged period of time.</li> </ul>

## ! NOTE

- **Vertical Frequency:** In order to display an image, the screen must be refreshed dozens of times per second like a fluorescent lamp.  
The number of times the screen is refreshed per second is called vertical frequency or refresh rate and is represented by Hz.
- **Horizontal Frequency:** The time it takes to display one horizontal line is called the horizontal cycle.  
The number of horizontal lines displayed in one second can be calculated by dividing one by the horizontal cycle. This is called horizontal frequency and is represented by kHz.

## ! NOTE

- Check if the video card's resolution or frequency is within the range allowed by the monitor and set to the recommended (optimal) resolution in **Control Panel > Display > Settings**.
- Failing to set the video card to the recommended (optimal) resolution may result in blurred text, a dimmed screen, a truncated display area or misalignment of the display.
- The configuration procedure may differ depending on your computer and/or operating system. Also, some video cards may not support certain resolutions. If this is the case, contact the manufacturer of the computer or video card for assistance.
- Some video cards may not support the 2560x1080 resolution.  
If the resolution cannot be displayed, contact the manufacturer of your video card.

The display color is abnormal.	
Does the display appear discolored (16 color)?	<ul style="list-style-type: none"> <li>• Set the color to 24 bit (true color) or higher. In Windows, go to Control Panel &gt; Display &gt; Settings &gt; Color Quality.</li> </ul>
Does the display color appear unstable or in monochrome?	<ul style="list-style-type: none"> <li>• Check if the signal cable is connected properly. Reconnect the cable or reinsert the PC's video card.</li> </ul>
Are there spots on the screen?	<ul style="list-style-type: none"> <li>• When using the monitor, pixilated spots (red, green, blue, white or black) may appear on the screen. This is normal for the LCD screen. It is not an error nor is it related to the monitor's performance.</li> </ul>

# SPECIFICATIONS

	Satellite Digital TV <sup>1</sup>	Digital TV	Analogue TV
Television system	DVB-T/T2 DVB-C DVB-S/S2	DVB-T DVB-C	PAL/SECAM B/G/D/K, PAL I/I'; SECAM L/L <sup>2</sup>
Programme coverage	VHF, UHF C-Band, Ku-Band	VHF, UHF	VHF: E2 to E12, UHF : E21 to E69, CATV: S1 to S21, HYPER: S21 to S47
Maximum number of storable programmes	6,000	1,500	

1 Only DVB-T2 support models

2 Except for Nordic countries (Denmark, Finland, Norway and Sweden)

Panel	Screen Type	730 mm Wide (29 inch) Visible diagonal size : 730 mm
	Pixel Pitch	0.2628 mm (H) x 0.2628 mm (V)
Video Signal	Max. Resolution	2560 × 1080 @ 60 Hz
	Recommended Resolution	2560 × 1080 @ 60 Hz
	Horizontal Frequency	30 kHz to 90 kHz
	Vertical Frequency	56 Hz to 75 Hz
	Synchronization Type	Digital
Input Connector		29MA73D TV, PC Audio In, Component, AV1(SCART), AV2(CVBS), HDMI*2, USB, DP, DVI-D, PCMCIA
		29MA73V TV, PC Audio In, Component, AV(CVBS), HDMI*2, USB, DP, DVI-D, LAN(Only UK)
Power	Rated Voltage	19 V --- _____ A
	Power Consumption	On Mode : 52 W (typ.) Off Mode ≤ 0.5 W
AC/DC Adapter		Manufacturer : LG Innotek, Model : PSAB-L206A Manufacturer : APD, Model : DA-65F19
Tilt	Tilt Range	-5 to 20°
Dimensions (Width x Depth x Height) Weight		With Stand 699.7 mm x 197.2 mm x 404.5 mm 6.0 kg
		Without Stand 699.7 mm x 68.5 mm x 327.5 mm 5.4 kg
Environmental conditions	Operating Temperature	10 °C to 35 °C
	Operating Humidity	20 % to 80 %
	Storage Temperature	-10 °C to 60 °C
	Storage Humidity	5 % to 90 %

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

DVI-D / HDMI / DisplayPort(PC) supported mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 400	31.468	70.080
640 x 480	31.469	59.940
640 x 480	37.500	75.000
800 x 600	37.879	60.317
800 x 600	46.875	75.000
1024 x 768	48.363	60.004
1024 x 768	60.023	75.029
1152 x 864	67.500	75.000
1280 x 720	45.000	60.000
1280 x 1024	63.981	60.020
1280 x 1024	79.976	75.025
1600 x 900	60.000	60.000
1680 x 1050	65.290	59.954
1920 x 1080	67.500	60.000
2560 x 1080	66.700	60.000

**NOTE**

- The recommended resolution is 2560x1080/60Hz. However, it may not be supported depending on your PC or AV model.

HDMI / MHL(VIDEO) supported mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 480	31.500	60.000
720 x 576	31.250	50.000
1280 x 720	37.500	50.000
1280 x 720	45.000	60.000
1920 x 1080	33.750	60.000
1920 x 1080	28.125	50.000
1920 x 1080	27.000	24.000
1920 x 1080	33.750	30.000
1920 x 1080	56.250	50.000
1920 x 1080	67.500	60.000

Component supported mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 480	15.730	59.940
720 x 480	15.750	60.000
720 x 576	15.625	50.000
720 x 480	31.470	59.940
720 x 480	31.500	60.000
720 x 576	31.250	50.000
1280 x 720	44.960	59.940
1280 x 720	45.000	60.000
1280 x 720	37.500	50.000
1920 x 1080	33.720	59.940
1920 x 1080	33.750	60.000
1920 x 1080	28.125	50.000
1920 x 1080	56.250	50.000
1920 x 1080	67.432	59.940
1920 x 1080	67.500	60.000

Component port connecting information

Component ports on the TV	Y	P <sub>B</sub>	P <sub>R</sub>
Video output ports on DVD player	Y	P <sub>B</sub>	P <sub>R</sub>
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

**NOTE**

- Avoid keeping a fixed image on the set's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen. Use a screen saver when possible.
- There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- Connect the audio cable from the PC to the Audio input on the TV.
- If using a sound card, adjust PC sound as required.



Make sure to read the Safety Precautions before using the product.

Keep the Owner's Manual (CD) in an accessible place for future reference.

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

MODEL \_\_\_\_\_

SERIAL \_\_\_\_\_

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 Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com). This offer is valid for three (3) years from the date on which you purchased the product.