



## OWNER'S MANUAL

# LED TV\*

\* LG LED TV refers to an LCD screen with LED backlights.

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

55LA9650    55LA9700    84LA9800  
65LA9650    65LA9700

[www.lg.com](http://www.lg.com)

## SAFETY INSTRUCTIONS

Please read these safety precautions carefully before using the product.

### WARNING



- Do not place the TV and/or remote control in the following environments:
  - A location exposed to direct sunlight
  - An area with high humidity such as a bathroom
  - Near any heat source such as stoves and other devices that produce heat
  - Near kitchen counters or humidifiers where they can easily be exposed to steam or oil
  - An area exposed to rain or wind
  - Near containers of water such as vases
 Otherwise, this may result in fire, electric shock, malfunction or product deformation.



- Do not place the product where it might be exposed to dust. This may cause a fire hazard.



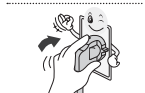
- Mains Plug is the TV connecting/disconnecting device to AC mains electric supply. This plug must remain readily attached and operable when TV is in use.



- Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off. You may be electrocuted due to excess moisture.



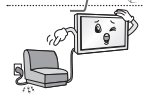
- Make sure to connect Mains cable to compliant AC mains socket with Grounded earth pin. (Except for devices which are not grounded on earth.) Otherwise possibility you may be electrocuted or injured.



- Insert power cable plug completely into wall socket otherwise if not secured completely into socket, fire ignition may break out.



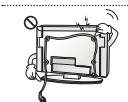
- Ensure the power cord does not come into contact with hot objects such as a heater. This may cause a fire or an electric shock hazard.



- Do not place a heavy object, or the product itself, on power cables. Otherwise, this may result in fire or electric shock.



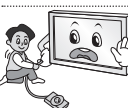
- Bend antenna cable between inside and outside building to prevent rain from flowing in. This may cause water damaged inside the Product and could give an electric shock.



- When mounting TV onto wall make sure to neatly install and isolate cabling from rear of TV as to not create possibility of electric shock / fire hazard.



- Do not plug too many electrical devices into a single multiple electrical outlet. Otherwise, this may result in fire due to over-heating.



- Do not drop the product or let it fall over when connecting external devices. Otherwise, this may result in injury or damage to the product.



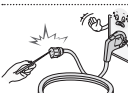
- Keep the anti-moisture packing material or vinyl packing out of the reach of children. Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.



- Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.



- Dispose of used batteries carefully to ensure that a small child does not consume them. Please seek Doctor- Medical Attention immediately if child consumes batteries.



- Do not insert any metal objects/ conductors (like a metal chopstick/ cutlery/ screwdriver) between power cable plug and input Wall Socket while it is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal. You may be electrocuted. (Depending on model)



- Do not put or store inflammable substances near the product. There is a danger of combustion/explosion or fire due to careless handling of the inflammable substances.



- Do not drop metallic objects such as coins, hair pins, chopsticks or wire into the product, or inflammable objects such as paper and matches. Children must pay particular attention. Electrical shock, fire or injury can occur. If a foreign object is dropped into the product, unplug the power cord and contact the service centre.



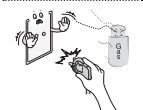
- Do not spray water on the product or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur.



- Do not allow any impact, shock or any objects to fall into the unit, and do not drop anything onto the screen. You may be injured or the product can be damaged.



- Never touch this product or antenna during a thunder or lighting storm. You may be electrocuted.



- Never touch the wall outlet when there is leakage of gas, open the windows and ventilate. It may cause a fire or a burn by a spark.



- Do not disassemble, repair or modify the product at your own discretion. Fire or electric shock accident can occur. Contact the service centre for check, calibration or repair.



- If any of the following occur, unplug the product immediately and contact your local service centre.
  - The product has been impacted by shock
  - The product has been damaged
  - Foreign objects have entered the product
  - The product produced smoke or a strange smell
 This may result in fire or electric shock.



- Unplug the TV from AC mains wall socket if you do not intend to use the TV for a long period of time. Accumulated dust can cause fire hazard and insulation deterioration can cause electric leakage/shock/fire.



- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



### CAUTION



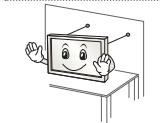
- Install the product where no radio wave occurs.



- There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls. This may cause an electric shock.



- Do not install the product on places such as unstable shelves or inclined surfaces. Also avoid places where there is vibration or where the product cannot be fully supported. Otherwise, the product may fall or flip over, which may cause injury or damage to the product.



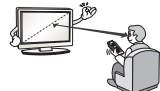
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.

- If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.

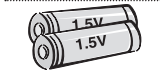
- Only use the attachments / accessories specified by the manufacturer.



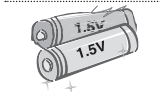
- When installing the antenna, consult a qualified service man. This may create a fire hazard or an electric shock hazard.



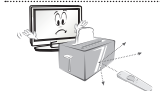
- We recommend that you maintain a distance of at least 2 to 7 times the diagonal screen size when watching TV. If you watch TV for a long period of time, this may cause blurred vision.



- Only use the specified type of battery. This could cause damage to the remote control.



- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.
- Used batteries including rechargeable battery must be collected separately and recycled.

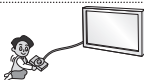


- Make sure there are no objects between the remote control and its sensor.

## 4 SAFETY INSTRUCTIONS



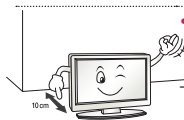
- Signal from Remote Control can be interrupted due to external/ internal lighting eg Sunlight, fluorescent lighting. If this occurs turn off lighting or darken viewing area.



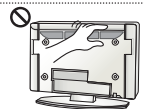
- When connecting external devices such as video game consoles, make sure the connecting cables are long enough. Otherwise, the product may fall over, which may cause injury or damage the product.



- Do not turn the product On/Off by plugging-in or unplugging the power plug to the wall outlet. (Do not use the power plug for switch.) It may cause mechanical failure or could give an electric shock.



- Please follow the installation instructions below to prevent the product from overheating.
  - The distance between the product and the wall should be more than 10 cm.
  - Do not install the product in a place with no ventilation (e.g., on a bookshelf or in a cupboard).
  - Do not install the product on a carpet or cushion.
  - Make sure the air vent is not blocked by a tablecloth or curtain.
- Otherwise, this may result in fire.

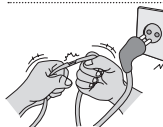


- Take care not to touch the ventilation openings when watching the TV for long periods as the ventilation openings may become hot. This does not affect the operation or performance of the product.

- Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.



- Prevent dust collecting on the power plug pins or outlet. This may cause a fire hazard.



- Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.



- Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it, as it may cause damage to screen.



- Avoid touching the screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary or permanent distortion/damage to screen.



- When cleaning the product and its components, unplug the power first and wipe it with a soft cloth. Applying excessive force may cause scratches or discolouration. Do not spray with water or wipe with a wet cloth. Never use glass cleaner, car or industrial shiner, abrasives or wax, benzene, alcohol etc., which can damage the product and its panel. Otherwise, this may result in fire, electric shock or product damage (deformation, corrosion or breakage).

- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by SWITCH.



- When unplugging the cable, grab the plug and unplug it, by pulling at the plug. Don't pull at the cord to unplug the power cord from the power board, as this could be hazardous.



- When moving the product, make sure you turn the power off first. Then, unplug the power cables, antenna cables and all connecting cables. The TV set or power cord may be damaged, which may create a fire hazard or cause electric shock.



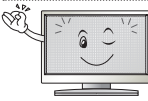
- When moving or unpacking the product, work in pairs because the product is heavy. Otherwise, this may result in injury.



- Contact the service centre once a year to clean the internal parts of the product. Accumulated dust can cause mechanical failure.



- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



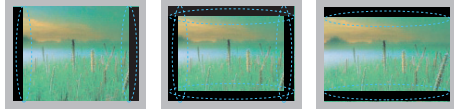
- If the product feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with product.



- The panel is a high technology display product with resolution of two million to six million pixels. You may see tiny black dots and/or brightly coloured dots (red, blue or green) at a size of 1 ppm on the panel. This does not indicate a malfunction and does not affect the performance and reliability of the product. This phenomenon also occurs in third-party products and is not subject to exchange or refund.



- You may find different brightness and colour of the panel depending on your viewing position (left/right/top/down). This phenomenon occurs due to the characteristic of the panel. It is not related with the product performance, and it is not malfunction.



- Displaying a still image (e.g., broadcasting channel logo, on-screen menu, scene from a video game) for a prolonged time may cause damage to the screen, resulting in retention of the image, which is known as image sticking. The warranty does not cover the product for image sticking. Avoid displaying a fixed image on your television's screen for a prolonged period (2 or more hours for LCD, 1 or more hours for Plasma). Also, if you watch the TV at a ratio of 4:3 for a long time, image sticking may occur on the borders of the panel. This phenomenon also occurs in third-party products and is not subject to exchange or refund.

- Generated Sound  
"Cracking" noise: A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required. Electrical circuit humming/panel buzzing: A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending on the product. This generated sound does not affect the performance and reliability of the product.

### ⚠ WARNING

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

### ⚠ CAUTION

If you ignore the caution message, you may be slightly injured or the product may be damaged.

### ! NOTE

The note helps you understand and use the product safely. Please read the note carefully before using the product.

## Viewing 3D Imaging

### WARNING

#### Viewing Environment

- Viewing Time
  - When watching 3D content, take 5 - 15 minute breaks every hour. Viewing 3D content for a long period of time may cause headache, dizziness, fatigue or eye strain.

#### Those that have a photosensitive seizure or chronic illness

- Some users may experience a seizure or other abnormal symptoms when they are exposed to a flashing light or particular pattern from 3D content.
- Do not watch 3D videos if you feel nauseous, are pregnant and/ or have a chronic illness such as epilepsy, cardiac disorder, or blood pressure disease, etc.
- 3D Content are not recommended for those who suffer from stereo blindness or stereo anomaly. Double images or discomfort in viewing may be experienced.
- If you have strabismus (cross-eyed), amblyopia (weak eyesight) or astigmatism, you may have trouble sensing depth and easily feel fatigue due to double images. It is advised to take more frequent breaks than the average adult.
- If your eyesight varies between your right and left eye, revise your eyesight prior to watching 3D content.

#### Symptoms which require discontinuation or refraining from watching 3D content

- Do not watch 3D content when you feel fatigue from lack of sleep, overwork, or intoxication .
- When these symptoms are experienced, stop using/watching 3D content and get enough rest until the symptom subsides.
  - Consult your doctor when the symptoms persist. Symptoms may include headache, eyeball pain, dizziness, nausea, palpitation, blurriness, discomfort, double image, visual inconvenience, or fatigue.

### CAUTION

#### Viewing Environment

- Viewing Distance
  - Maintain a distance of at least twice the screen diagonal length when watching 3D content.
  - If you feel discomfort in viewing 3D content, move further away from the TV.

#### Viewing Age

- Infants / Children
  - Usage/ Viewing 3D content for children under the age of 5 is prohibited.
  - Children under the age of 10 may overreact and become overly excited because their vision is in development. For example: trying to touch the screen or trying to jump into it. Special monitoring and extra attention is required for children watching 3D content.
  - Children have greater binocular disparity of 3D presentations than adults because the distance between the eyes is shorter than one of adults. Therefore they will perceive more stereoscopic depth compared to adults for the same 3D image.
- Teenagers
  - Advise teenagers under the age of 19 not to watch 3D videos for a long time when they are tired.
- Elderly
  - The elderly may perceive less of a 3D effect than the youth. Do not sit closer to the TV than the recommended distance.

#### Cautions when using the 3D glasses

- Make sure to use LG 3D glasses. Otherwise, you may not be able to view 3D videos properly.
- Do not use 3D glasses instead of your normal glasses, sunglasses ,or protective goggles.
- Using modified 3D glasses may cause eye strain or image distortion.
- Do not keep your 3D glasses in extremely high or low temperatures. It will cause deformation.
- The 3D glasses are fragile and are easy to scratched. Use a soft, clean piece of cloth when wiping the lenses. Do not scratch the lenses of the 3D glasses with sharp objects or clean/wipe them with chemicals.

## LICENSES

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#### 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.

## INSTALLATION PROCEDURE

- 1 Open the package and make sure all the accessories are included.
- 2 Attach the stand to the TV set.
- 3 Connect an external device to the TV set.
- 4 Make sure the network connection is available.  
You can use the TV network functions only when the network connection is made.

## ASSEMBLING AND PREPARING

### Unpacking

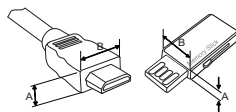
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.

#### CAUTION

- Do not use any unapproved items to ensure the safety and product life span.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- In case of some model, the thin film on screen is a part of TV, So don't take it off.

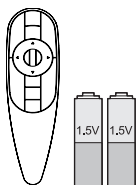
#### NOTE

- 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.

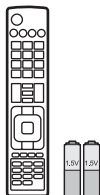


$$*A \leq 10 \text{ mm}$$

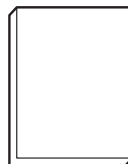
$$*B \leq 18 \text{ mm}$$



**Magic Remote Control,  
Batteries (AA)**  
(See p. 37)



**Remote control and  
Batteries (AAA)**  
(See p. 39)

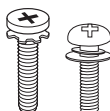


**Owner's Manual**



**Cable Holder**  
(See p. 21, 22)

(For 84LA9800)



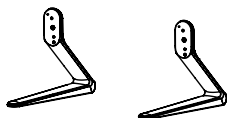
**Stand Screws**  
4 EA, M4 x 20  
6 EA, M5 x 16  
(See p. 18, 19)

(For 55LA9700, 55/65LA9650)



**Stand Screws**  
4 EA, M4 x 14  
(See p. 17, 18)

(For 55/65LA9650)



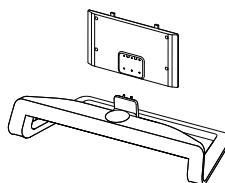
**Stand Base**  
(See p. 17)

(For 55/65LA9700)

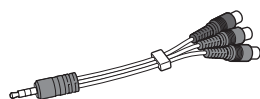


**Stand Base**  
(See p. 18)

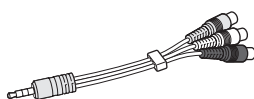
(For 84LA9800)



**Stand Body, Stand Base**  
(See p. 18)



**Component Video Cable**  
(See p. 30)



**Composite Video Cable**  
(See p. 30, 31)



**Tag On**  
(Depending on model)

(For 55/65LA9700)

**Wall Mount Inner Spacers**

4 EA

(See p. 23)

**Cinema 3D Glasses**

The number of 3D glasses may differ depending on the model or country.



(For 55LA9700)

**Wall Mount Screws**

4 EA, M6 x 54

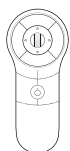
(For 65LA9700)

**Wall Mount Screws**

4 EA, M8 x 44

## Optional Extras

Optional extras can be changed or modified for quality improvement without any notification. Contact your dealer for buying these items. These devices only work with certain models. The model name or design may be changed due to the manufacturer's circumstances or policies.



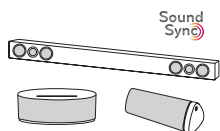
**AN-MR400**  
Magic Remote



**AG-F\*\*\***  
Cinema 3D Glasses



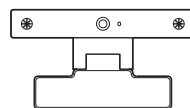
**AG-F\*\*\*DP**  
Dual Play Glasses



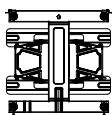
**LG Audio device**



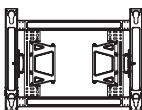
**Tag On**



**AN-VC5\*\***  
Video Call Camera



**Wall mount bracket**  
LSW430B



**Wall mount bracket**  
LSW630B



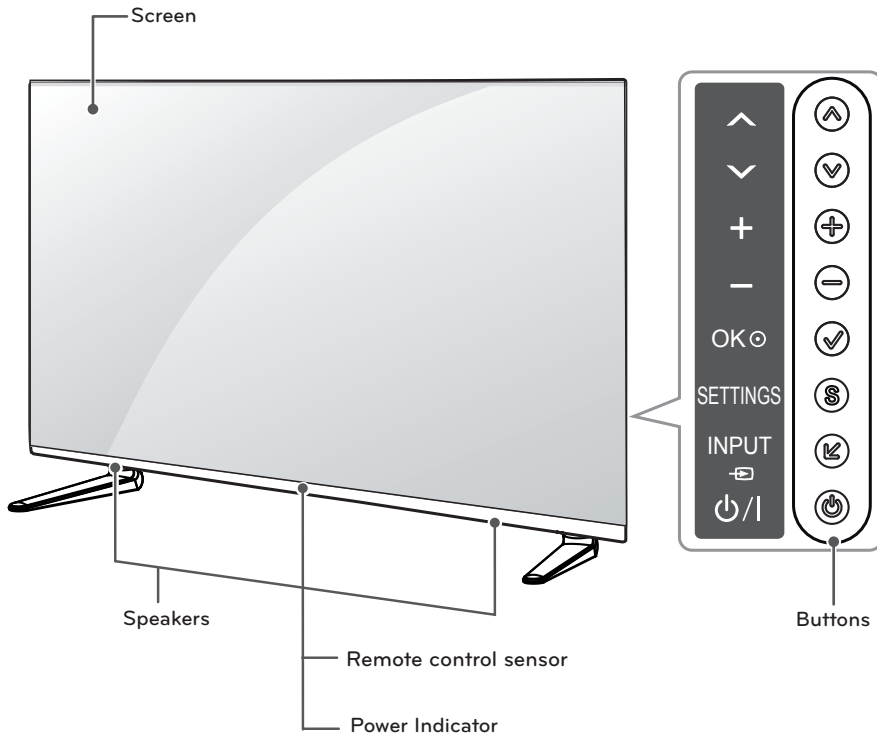
**AN-BL\*\*\***  
Wireless IR Blaster  
(Depending on model)

ENGLISH

| Compatibility               | LA9650 | LA9700     | LA9800 |
|-----------------------------|--------|------------|--------|
| AN-MR400 Magic remote       | ●      | ●          | ●      |
| AG-F*** Cinema 3D glasses   | ●      | ●          | ●      |
| AG-F***DP Dual Play Glasses | ●      | ●          | ●      |
| AN-VC5** Video Call Camera  | ●      | (Built-in) | ●      |
| Tag On                      | ●      | ●          | ●      |
| LG Audio device             | ●      | ●          | ●      |

## Parts and Buttons

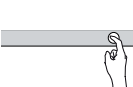
(For LA9650 Series)



| Button        | Description                                                       |
|---------------|-------------------------------------------------------------------|
| ▲ / ▼ (▲ / ▼) | Scrolls through the saved channels.                               |
| ⊕ / ⊖ (⊕ / ⊖) | Adjusts the volume level.                                         |
| ✓ (OK ●)      | Selects the highlighted menu option or confirms an input.         |
| S (SETTINGS)  | Accesses the main menus, or saves your input and exits the menus. |
| ⏏ (INPUT ⊞)   | Changes the input source.                                         |
| ⏻ (⏻ / ⏻)     | Turns the power on or off.                                        |



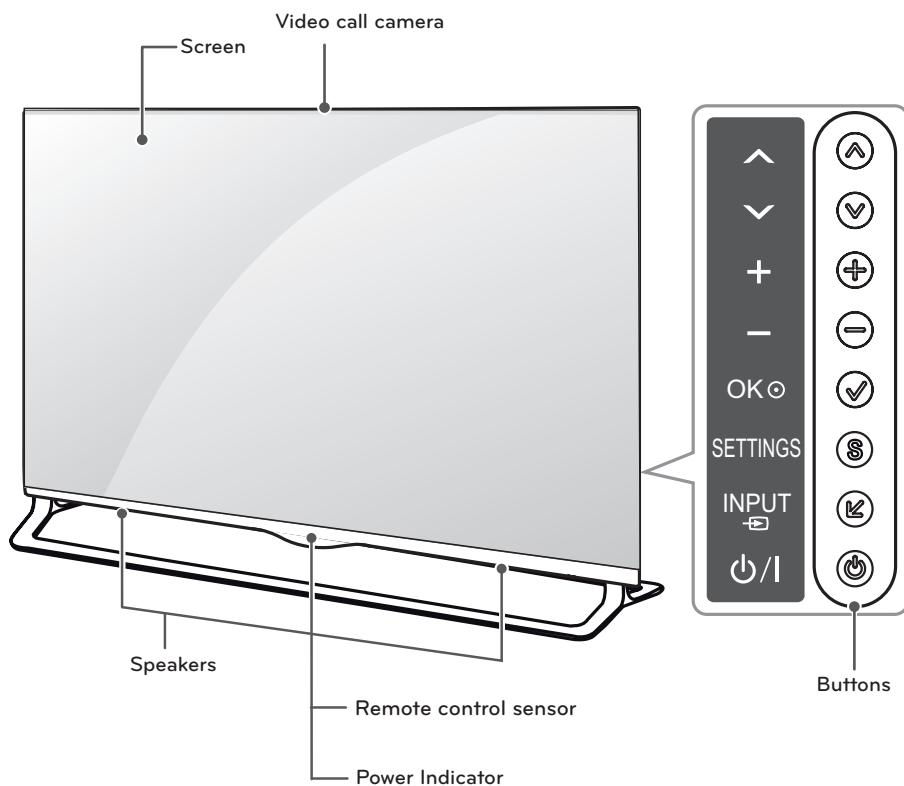
### CAUTION



- To avoid possible SPEAKER damage or degradation in performance please keep contact of TV /Speaker out of reach of Children.  
(For 55/65LA9650)

## 14 ASSEMBLING AND PREPARING

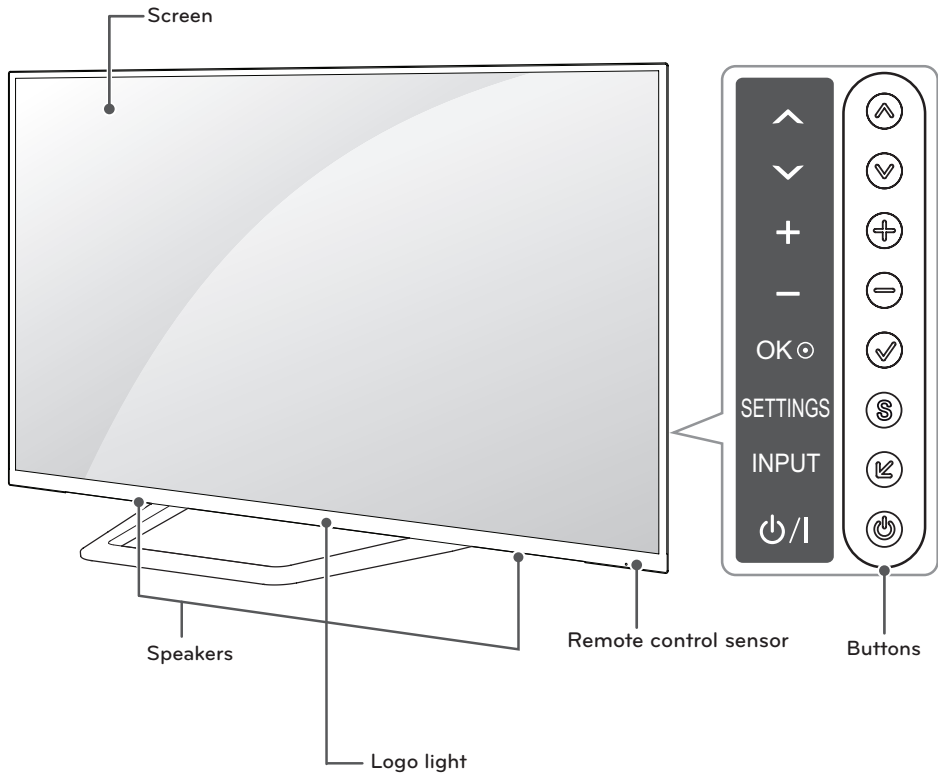
(For LA9700 Series)



ENGLISH

| Button        | Description                                                       |
|---------------|-------------------------------------------------------------------|
| ▲ / ▼ (▲ / ▼) | Scrolls through the saved channels.                               |
| ⊕ / ⊖ (⊕ / ⊖) | 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.                                         |
| ⏻ (⏻ / ⏻)     | Turns the power on or off.                                        |

(For 84LA9800)



ENGLISH

| Button       | Description                                                       |
|--------------|-------------------------------------------------------------------|
| ▲/▼ (▲/▼)    | Scrolls through the saved channels.                               |
| ⊕/⊖ (⊕/⊖)    | Adjusts the volume level.                                         |
| ✓ (OK) (○)   | Selects the highlighted menu option or confirms an input.         |
| S (SETTINGS) | Accesses the main menus, or saves your input and exits the menus. |
| ⌂ (INPUT)    | Changes the input source.                                         |
| ⏻ (⏻/⏻)      | Turns the power on or off.                                        |

## Lifting and Moving the TV

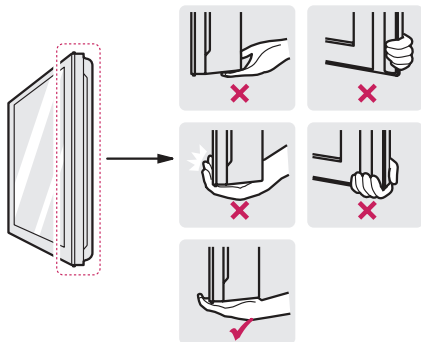
When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

### CAUTION

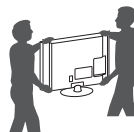
- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not place the product on the floor with its front facing down. Doing so may result in damage to the screen.
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.



- 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.

## Setting up the TV

You can mount your TV to a wall or attach the stand if you wish to place the TV on an entertainment center or other furniture.

### Attaching the Stand

If you are not mounting the TV to a wall, use the following instructions to attach the stand.

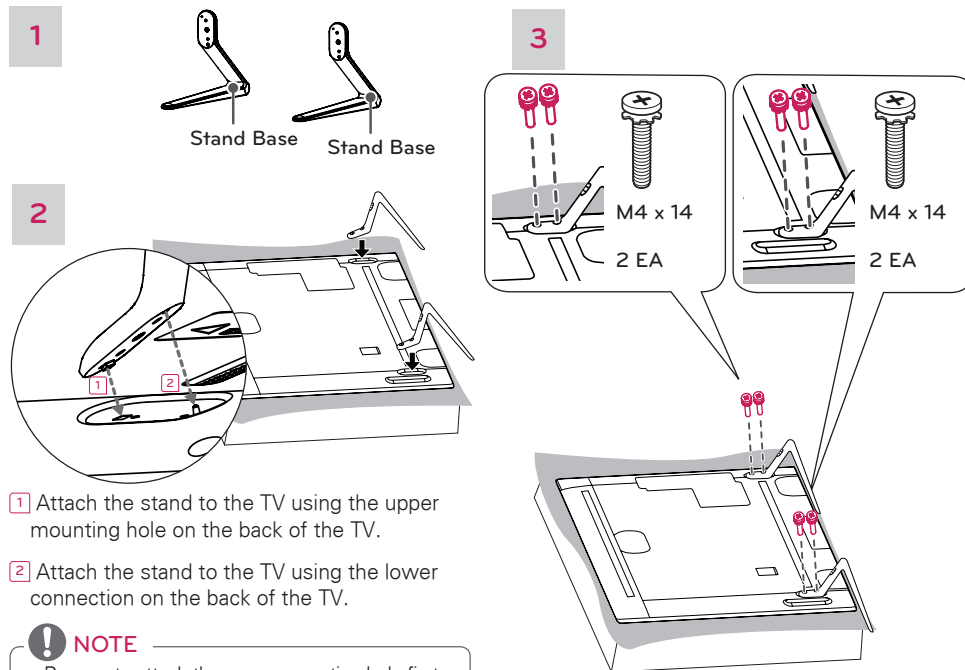
#### ⚠ CAUTION

- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.
- Make sure that the screws are fastened tightly. (If they are not fastened securely enough, the TV may tilt forward after being installed.)
- Do not tighten the screws with too much force; otherwise they may be damaged and come loose later.

#### ⚠ NOTE

- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.

(For LA9650 Series)



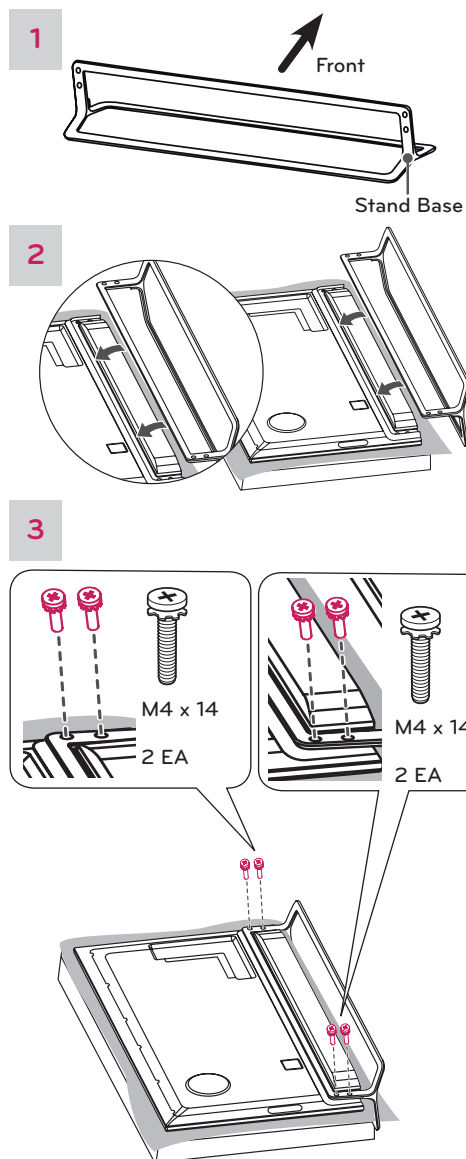
- 1** Attach the stand to the TV using the upper mounting hole on the back of the TV.
- 2** Attach the stand to the TV using the lower connection on the back of the TV.

#### ⚠ NOTE

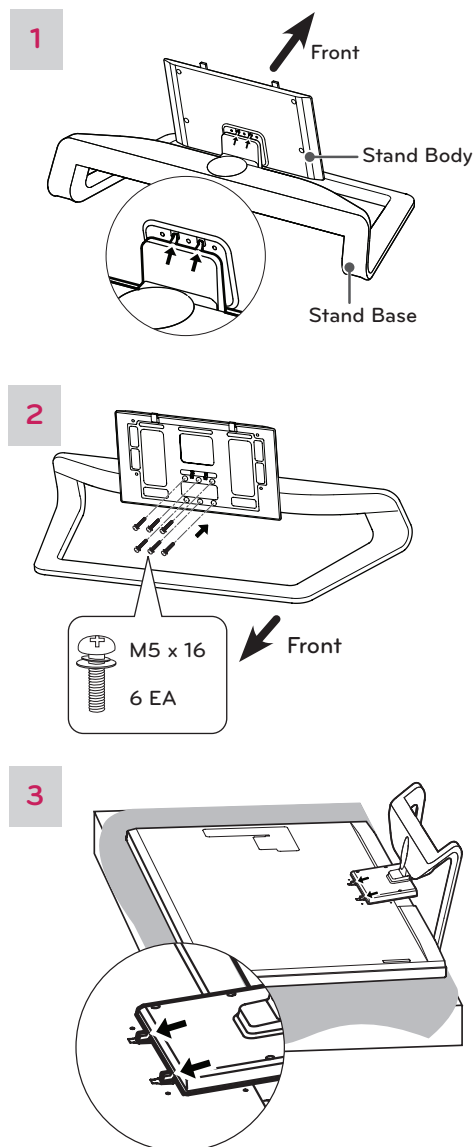
- Be sure to attach the upper mounting hole first, and then attach the lower connection second.

## 18 ASSEMBLING AND PREPARING

(For LA9700 Series)



(For 84LA9800)

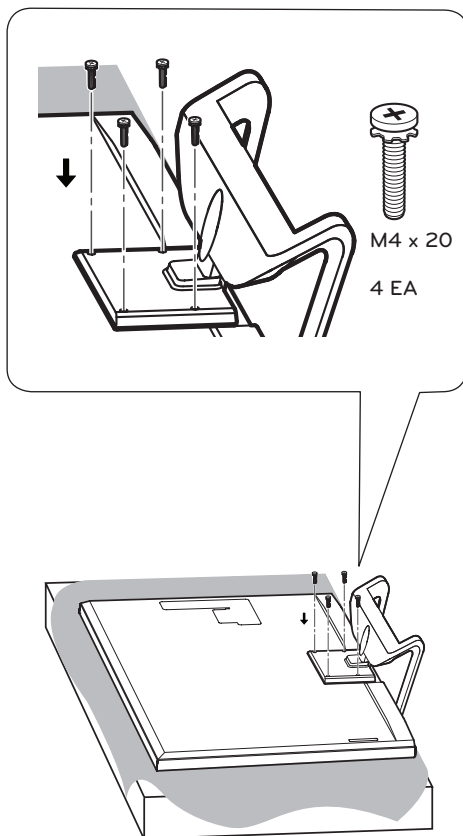


ENGLISH

### NOTE

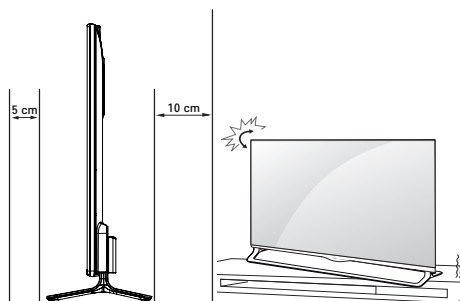
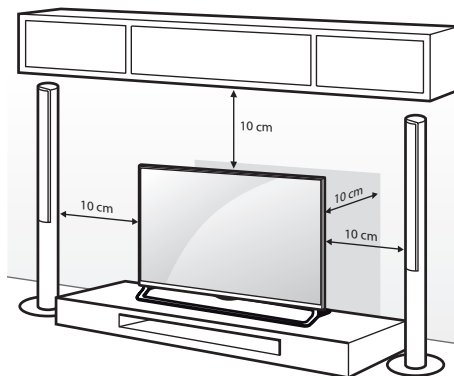
- The stand screws are already attached at the back of the TV. Please use these attached screw to assemble the TV and stand. (For 65LA9700)

4



### Mounting on a Table

- 1 Lift and tilt the TV into its upright position on a table.
  - Leave a 10 cm (minimum) space from the wall for proper ventilation.



- 2 Connect the power cord to a wall outlet.



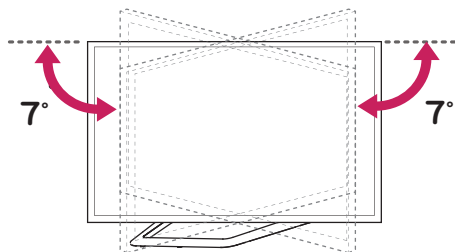
#### CAUTION

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

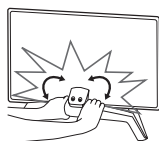
ENGLISH

**Adjusting the angle of the TV to suit view**

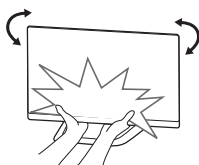
Swivel 7 degrees to the left or right and adjust the angle of the TV to suit your view.  
(For 84LA9800)

**CAUTION**

- When adjusting the angle of the TV, watch out for your fingers.
- Personal injury may occur if hands or fingers are pinched. If the product is tilted too much, it may fall, causing damage or injury.



Rear

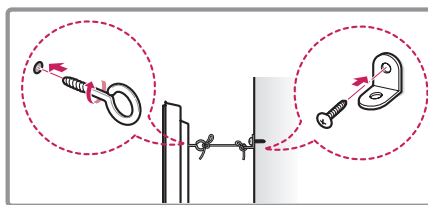
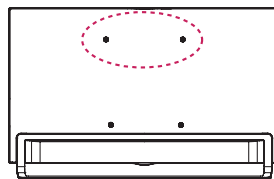


Front

ENGLISH

**Securing the TV to a wall (optional)**

(Depending on model)



- 1 Insert and tighten the eye-bolts, or TV brackets and bolts on the back of the TV.  
- If there are bolts inserted at the eye-bolts position, remove the bolts first.
- 2 Mount the wall brackets with the bolts to the wall.  
Match the location of the wall bracket and the eye-bolts on the rear of the TV.
- 3 Connect the eye-bolts and wall brackets tightly with a sturdy rope.  
Make sure to keep the rope horizontal with the flat surface.

**CAUTION**

- Make sure that children do not climb on or hang on the TV.

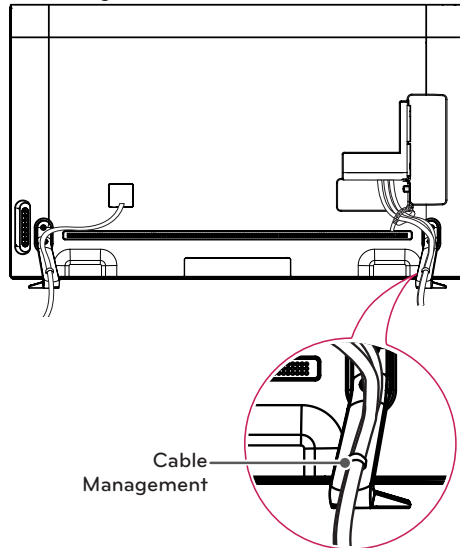
**NOTE**

- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are optional. You can obtain additional accessories from your local dealer.

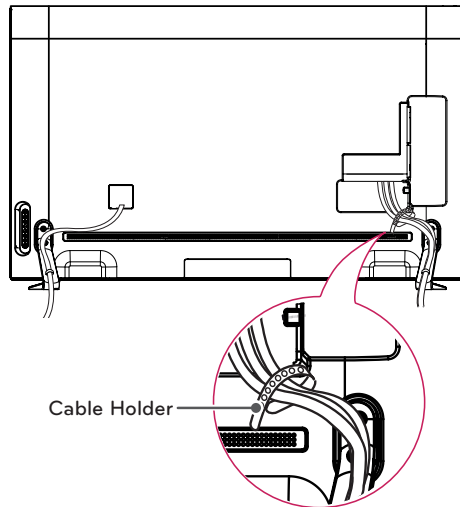
## Tidying Cables

(For LA9650 Series)

- 1 Gather and bind the cables with the cable management.

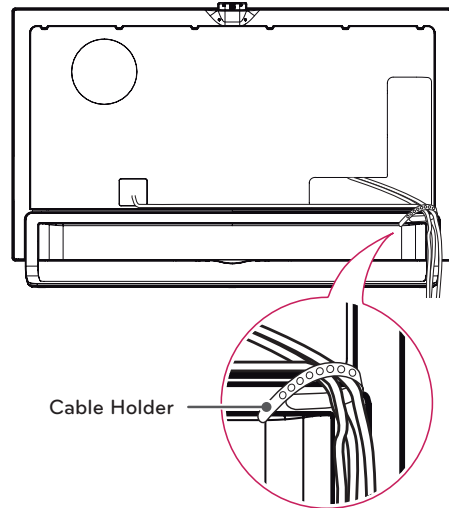


- 2 Gather and bind the cables with the cable holder.



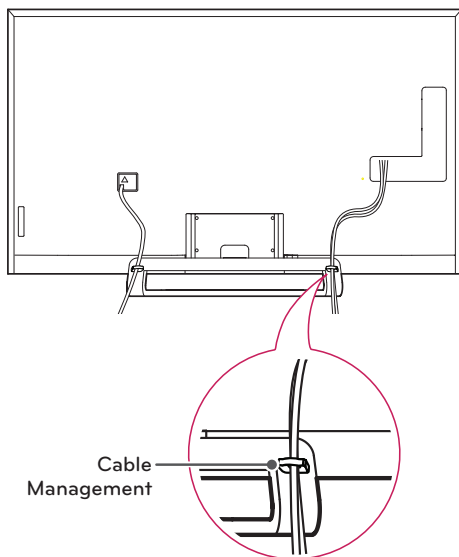
(For LA9700 Series)

Gather and bind the cables with the cable holder on the back of the TV.

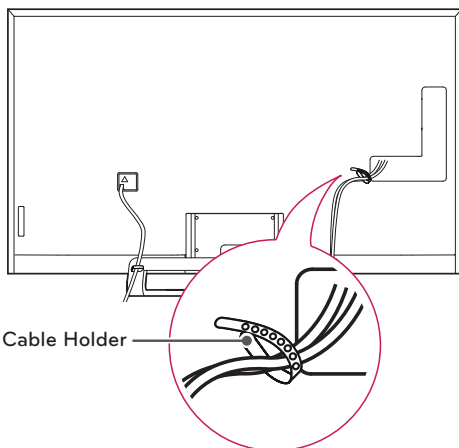


(For 84LA9800)

- 1 Gather and bind the cables with the cable management.



- 2 Gather and bind the cables with the cable holder.

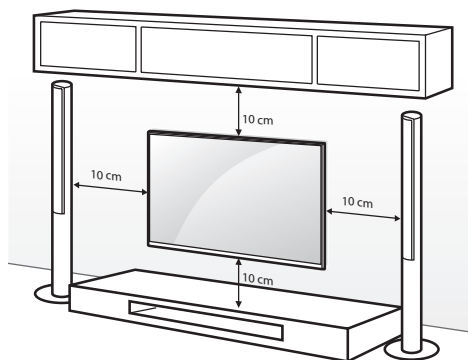


### CAUTION

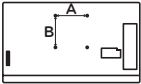
- Do not move the TV by holding the cable holder, as the cable holders may break, and injuries and damage to the TV may occur.

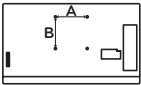
## Mounting on a Wall

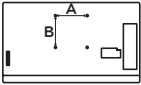
An optional wall mount can be used with your LG Television. Consult with your local dealer for a wall mount that supports the VESA standard used by your TV model. Carefully attach the wall mount bracket at the rear of the TV. Install the wall mount bracket on a solid wall perpendicular to the floor. If you are attaching the TV to other building materials, please contact qualified personnel to install the wall mount. Detailed instructions will be included with the wall mount. We recommend that you use an LG brand wall mount.

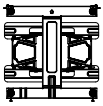
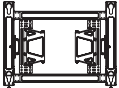


Make sure to use screws and wall mounts that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

|                                                                                   |                    |
|-----------------------------------------------------------------------------------|--------------------|
| <b>Model</b>                                                                      | 55LA9700, 65LA9650 |
| <b>VESA (A x B)</b>                                                               | 400 x 400          |
|  |                    |
| <b>Standard screw</b>                                                             | M6                 |
| <b>Number of screws</b>                                                           | 4                  |
| <b>Wall mount bracket (optional)</b>                                              | LSW430B            |

|                                                                                   |                   |
|-----------------------------------------------------------------------------------|-------------------|
| <b>Model</b>                                                                      | 55LA9650          |
| <b>VESA (A x B)</b>                                                               | 400 x 400         |
|  |                   |
| <b>Standard screw</b>                                                             | M6                |
| <b>Number of screws</b>                                                           | 4                 |
| <b>Wall mount bracket (optional)</b>                                              | LSW430B<br>MSW240 |

|                                                                                    |                      |
|------------------------------------------------------------------------------------|----------------------|
| <b>Model</b>                                                                       | 65LA9700<br>84LA9800 |
| <b>VESA (A x B)</b>                                                                | 600 x 400            |
|  |                      |
| <b>Standard screw</b>                                                              | M8                   |
| <b>Number of screws</b>                                                            | 4                    |
| <b>Wall mount bracket (optional)</b>                                               | LSW630B              |

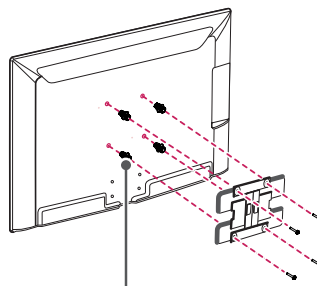
| Wall mount bracket (optional) |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------|
| LSW430B                       |  |
| LSW630B                       |  |
| MSW240                        |  |

### ⚠ CAUTION

- Disconnect the power before moving or installing 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

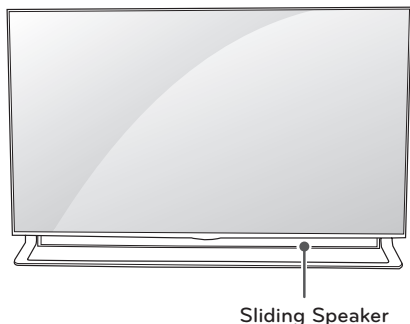
- Use the screws that are listed in the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount.
- When attaching the LG wall mount bracket to the TV, do not use wall mount spacers and wall mount screws provided with the LG wall mount bracket. Please use wall mount inner spacers and wall mount screws provided with the TV accessory.



Wall Mount Inner Spacer  
(For LA9700 Series)

## Using Sliding Speaker

(For LA9700 Series)



- 1 When TV is turned ON, the hidden Speaker slides out from inside the TV.
- 2 Go to **More ➡ Settings ➡ SOUND ➡ Sliding Speaker** to set Sliding Speaker.

If you are mounting TV on entertainment table/unit, please make sure there is enough clearance between yourself and foreign objects to allow operation of internal sliding speaker otherwise injury to yourself or damage to TV could occur.

Please do not use excessive force during operation of internal sliding Speaker as it may cause it to malfunction.

Make sure Speaker is in OPEN position when viewing TV as sound will be abnormal or distorted.

- 3 When transporting the TV, make sure that the sliding speaker is closed. If the sliding speaker is open when being transported, it may become damaged, resulting in malfunction.
- To close the sliding speaker, go to **SOUND ➡ Sliding Speaker**, select **Open when TV is turned on** and press the POWER button.

## Using Built-in Camera

(For LA9700 Series)

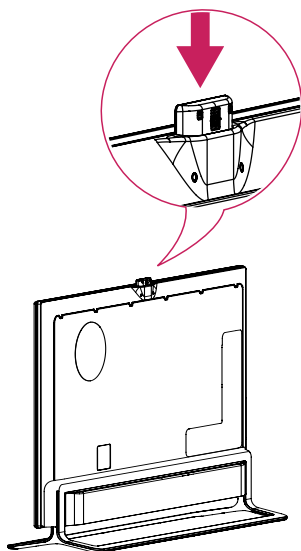
This TV does not support the use of an external camera.

### ! NOTE

- Before using the built-in camera, you must recognize the fact that you are legally responsible for the use or misuse of the camera by the relevant national laws including the criminal law.
- The relevant laws include the Personal Information Protection law which regulates the processing and transferring of personal information and the law which regulates the monitoring by camera in a workplace and other places.
- When using the built-in camera, the user must gain consent from the persons being observed. Please avoid using the camera in the following manner. We suggest avoiding the following situations:
  - (1) Using the camera in areas where the use of camera is generally prohibited such as restroom, locker room, fitting room, and security area.
  - (2) Using the camera while causing the infringement of privacy.
  - (3) Using the camera while causing the violation of the relevant regulations or laws.

## Preparing Built-in Camera

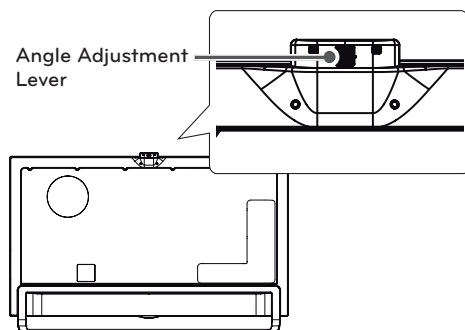
- 1 Pull up the built-in camera at the back of the TV.



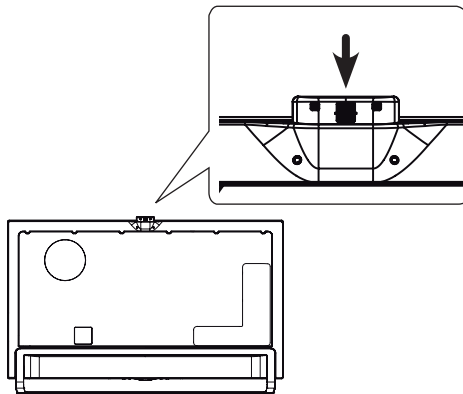
### ! NOTE

- Remove the protective film before using the built-in camera.

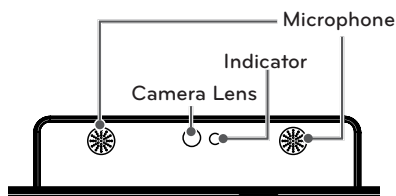
- 2 You can adjust the angle of the camera with the angle adjustment lever on the back of the built-in camera (within 5 degrees vertically).



- 3 Pull down the built-in camera when you are not using it.



## Name of Parts for the Built-In Camera



## Checking the Camera's Shooting Range

- 1 Press the **SMART** button on the remote control to display the More menu.
- 2 Select Settings from the More menu and then press the **⏮ wheel (OK)** button.
- 3 Go to **OPTION ➡ Camera Setting Help** and press the **⏮ wheel (OK)** button.

### ! NOTE

- The optimal distance from the camera to use the motion recognition function is between 1.5 m and 4.5 m.

## MAKING CONNECTIONS

- This section uses illustrations of the LA9700 series.

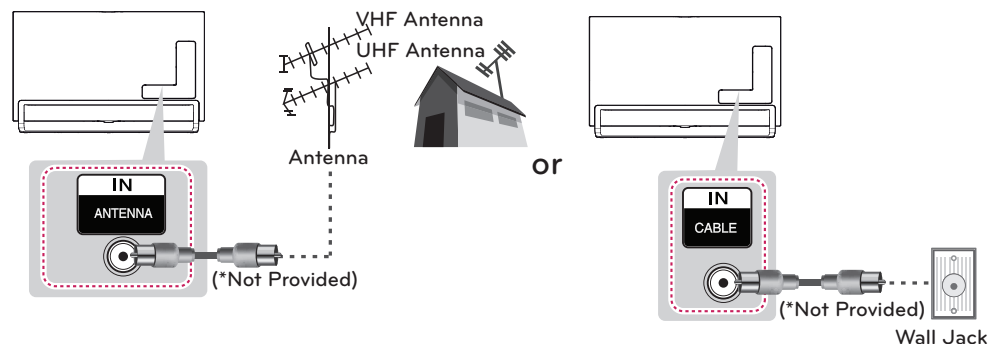
You can connect various external devices to the TV. Supported external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices. For more information on external device's connection, refer to the manual provided with each device.

### ! 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 of recording, refer to the manual provided with the connected device.
- The external device connections shown may differ slightly from illustrations in this manual.
- Connect external devices to the TV regardless of the order of the TV port.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- Refer to the external equipment's manual for operating instructions.

### Connecting to an Antenna or Cable

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



### ! NOTE

- To improve the picture quality in a poor signal area, please purchase a signal amplifier and install it properly.
- Use a signal splitter to use more than 2 TVs.
- If the antenna is not installed properly, contact your dealer for assistance.
- DTV Audio Supported Codec: MPEG, Dolby Digital, Dolby Digital Plus, HE-AAC.
- Display of Ultra HD(3840 x 2160 pixels) content compatible; additional device capable of processing Ultra HD source content (in 2D or 3D) may be required and will be sold separately.

## Connecting to a HD Receiver, DVD Player, or VCR

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

### HDMI Connection

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

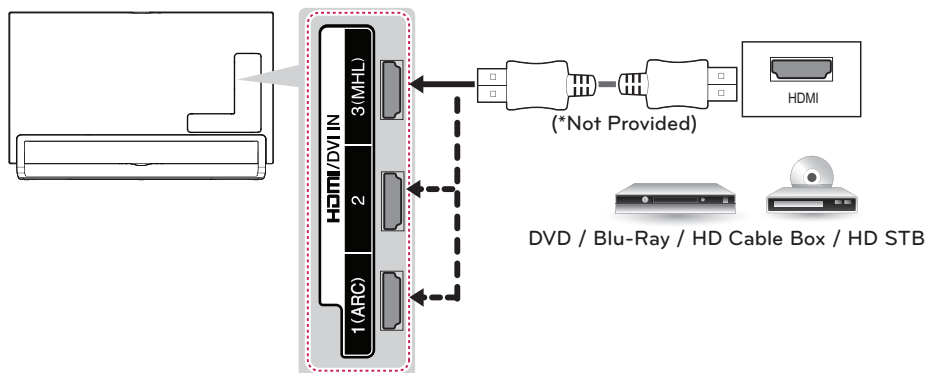
Transmits the digital video and audio signals from an external device to the TV. Connect the external device and the TV with the HDMI cable as shown in the following illustration.



#### NOTE

- Use the latest High Speed HDMI™ Cable with CEC (Customer Electronics Control) function.
- High Speed HDMI™ Cables are tested to carry an HD signal up to 1080p and higher.
- Supported HDMI Audio format : Dolby Digital, PCM (Up to 192 kHz, 32 kHz / 44.1 kHz / 48 kHz / 88 kHz / 96 kHz / 176 kHz / 192 kHz), DTS

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



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#### ARC (Audio Return Channel)

- When connected with a high-speed HDMI cable, digital audio can be sent to a compatible device without an additional optical audio cable.
- ARC is only supported on the HDMI input 1 (ARC) port. An external audio device that supports ARC should be connected to HDMI 1 if you wish to use ARC

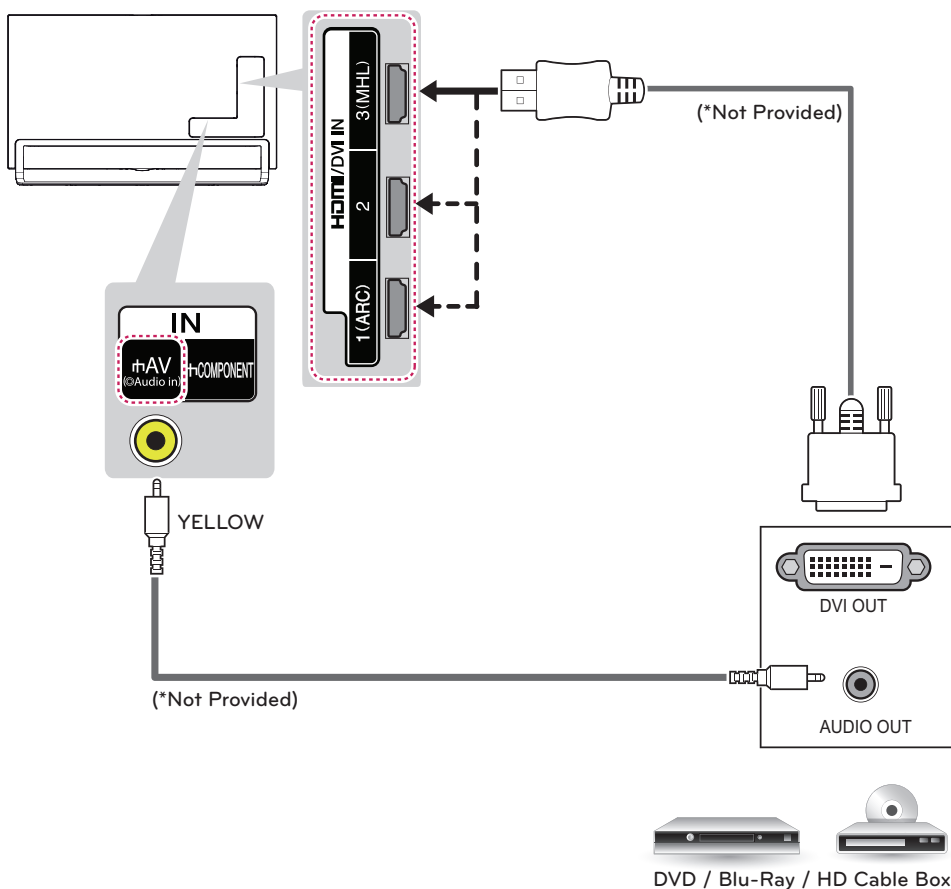
## DVI to HDMI Connection

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

### ! NOTE

- When using the HDMI/DVI cable, Single link only is supported.

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

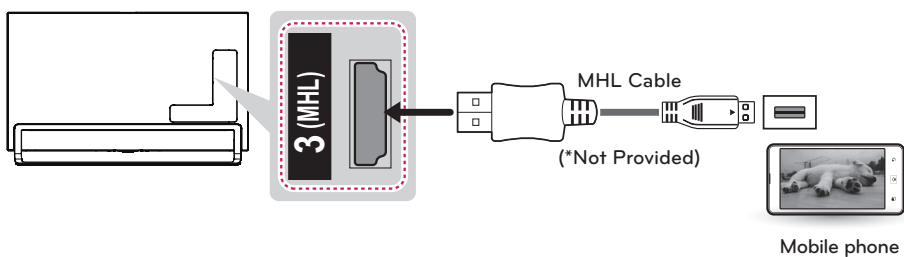


## Connecting to a Mobile Phone

Mobile High-definition Link (MHL) is an interface for transmitting digital audiovisual signals from mobile phones to television sets.

### ! NOTE

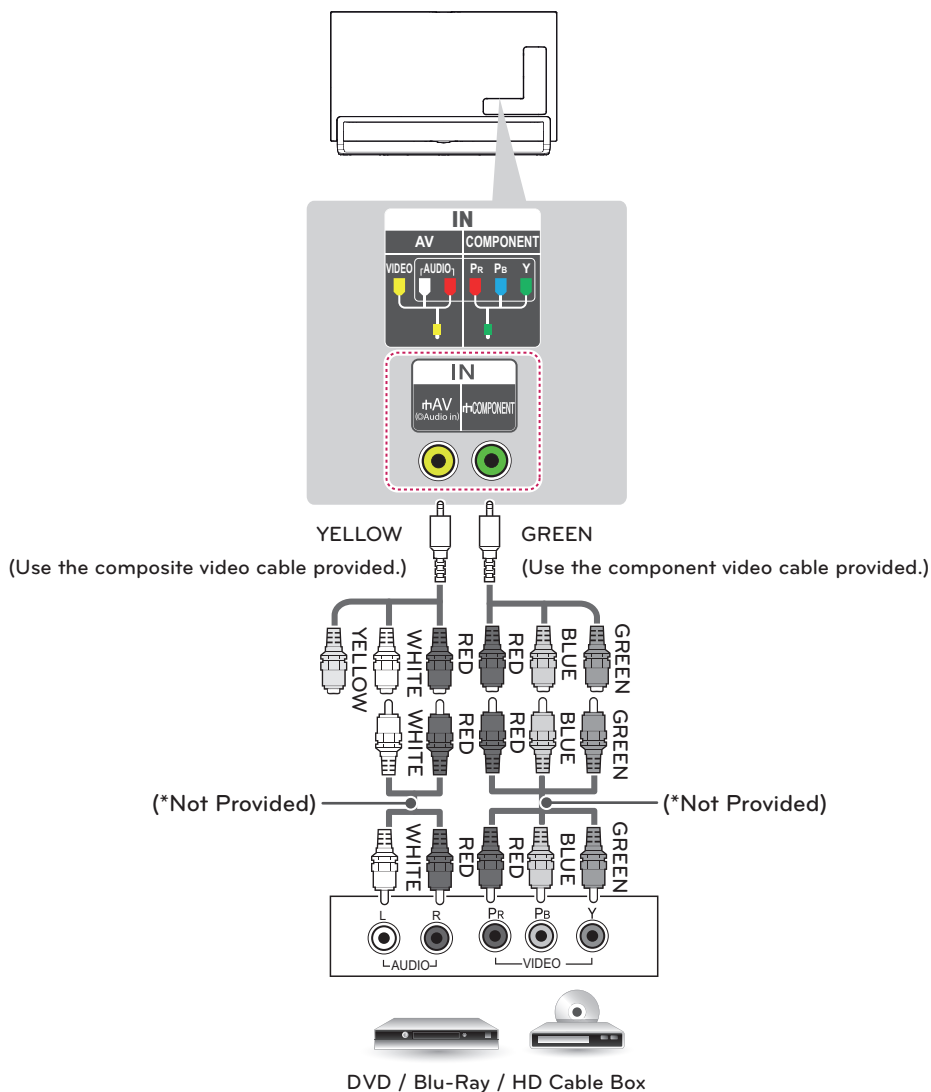
- Connect the mobile phone to the HDMI IN 3 (MHL) port to view the phone screen on the TV.
- This only works for the MHL-enabled phone.
- With some MHL supporting mobile phones, you can use the TV remote to control the phone.
- An MHL passive cable is needed to connect the TV and a mobile phone.
- Remove the MHL cable from the TV when:
  - the MHL function is disabled.
  - your mobile device is fully charged in standby mode.



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



- 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.**



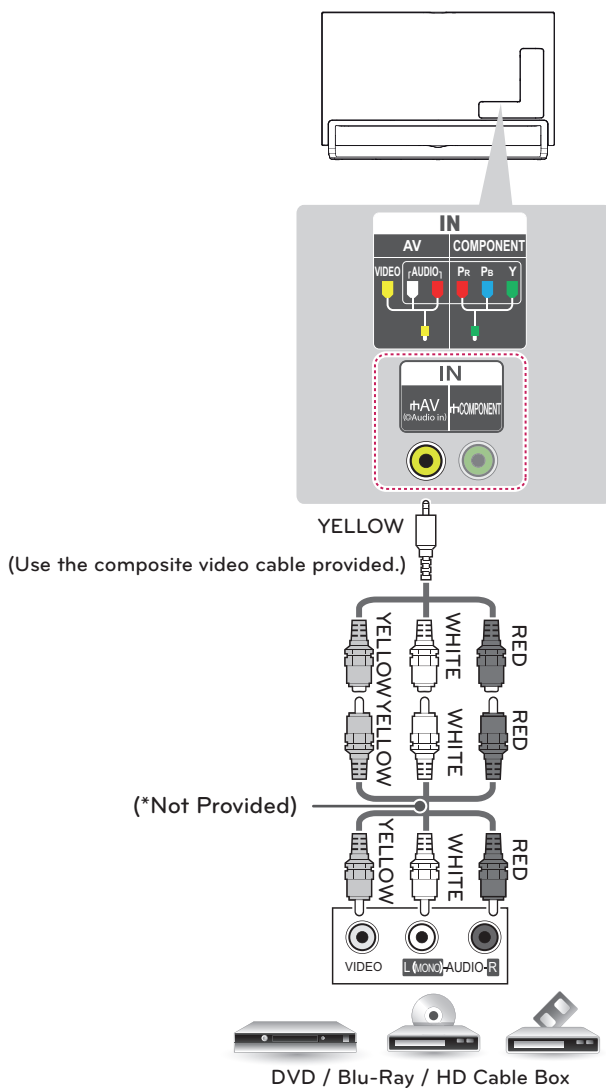
## Composite Connection

Transmits 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

- Check to ensure the cables are matched with the corresponding color connection.



## Connecting to a PC

### ! NOTE

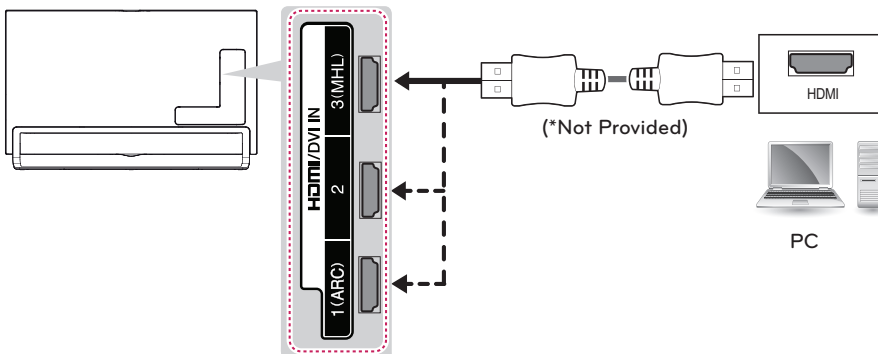
- It is recommended to use an HDMI connection for the best image quality.
- Depending on the graphics card, DOS mode video may not work if a HDMI to DVI Cable is in use.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change 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.
- If you are using DVI out from a PC, you have to connect analog audio separately. Refer to the instructions on the next page.
- When using the HDMI/DVI cable, Single link is only supported.

## HDMI Connection or DVI to HDMI Connection

Choose method A or B to make connection.

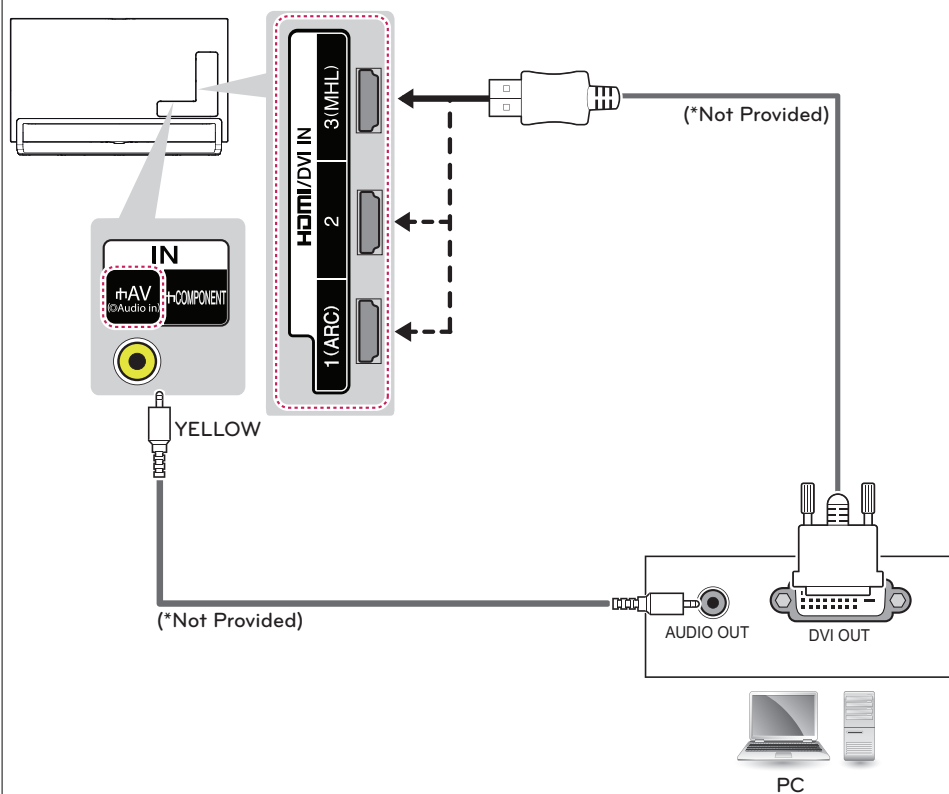
### Method A: HDMI Connection

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



**Method B: DVI to HDMI Connection**

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



## Connecting to an Audio System

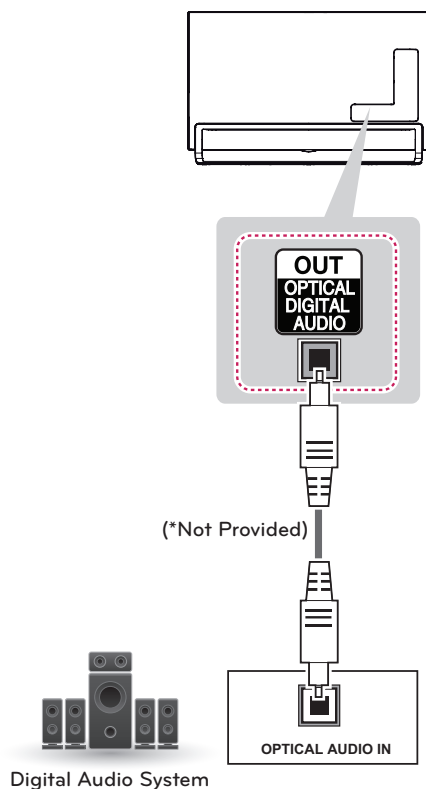
You can use an optional external audio system instead of the built-in speaker.

### Digital Optical Audio Connection

Transmits a 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 Headphones

You listen to the sound using headphones.



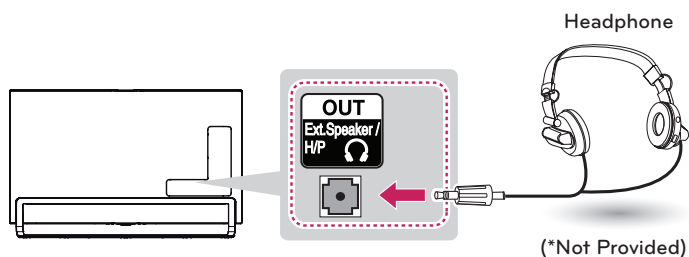
### NOTE

- AUDIO menu options are disabled when headphones are connected.
- When changing AV MODE with headphones connected, the change is applied to video but not to audio.
- Optical Digital Audio Out is not available when headphones are connected.
- Headphone impedance: 16  $\Omega$
- Max audio output: 0.624mW to 1.04mW
- Headphone jack size: 0.35 cm



### CAUTION

- Do not use headsets (earphones) at high volume or for a long time. Otherwise, it may cause damage to your hearing.



## Connecting a USB Drive

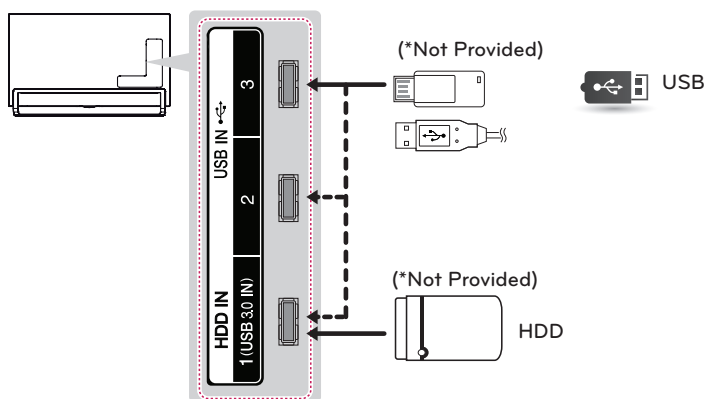
Connect a USB storage device such as a USB flash thumbdrive, external hard drive, or a USB memory card reader to the TV and access the Smart Share menu to use various multimedia files.

### ! NOTE

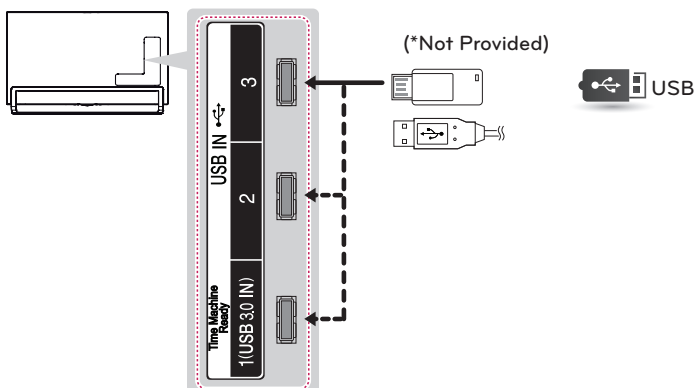
- Some USB Hubs may not work. If a USB device connected using a USB Hub is not detected, connect it to the USB port on the TV directly.

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

(For 55/65LA9650, 55/65LA9700)

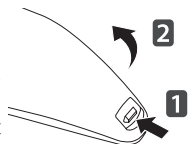


(For 84LA9800)



## MAGIC REMOTE CONTROL FUNCTIONS

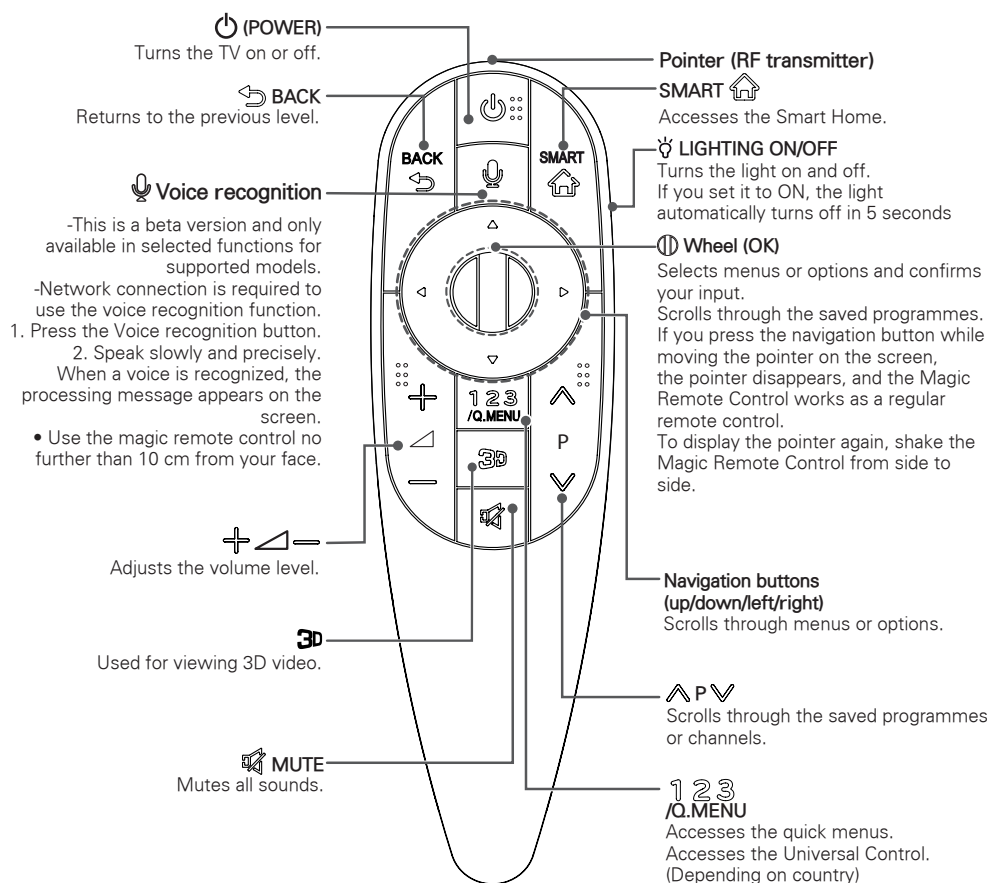
When the message "Magic remote control battery is low. Change the battery." is displayed, replace the battery. To install batteries, open the battery cover, replace batteries (1.5 V AA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution. Be sure to point the remote control at the remote control sensor on the TV. 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.
- In Analogue TV and some countries, some remote control buttons may not work.

This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.



## Registering Magic Remote Control

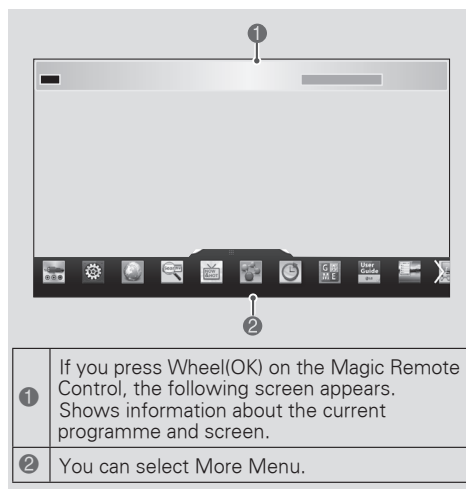
The Magic Remote Control operates by pairing with your TV.

### How to register the Magic Remote Control

|                                                                                   |                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>To register automatically, turn the TV on and press the <b>Wheel (OK)</b>. When registration is completed, the completion message appears on the screen.</p> <p>If registration fails, turn the TV off and back on, then press the <b>Wheel (OK)</b> to complete registration.</p> |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### How to Re-register the Magic Remote Control

|                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BACK</b><br><br><b>SMART</b><br> | <p>1 Press and hold the <b>BACK</b> and <b>SMART</b> buttons together for 5 seconds to reset, then register it by following How to register the Magic remote control above.</p> <p>2 To re-register the Magic remote control, press and hold the <b>BACK</b> button for 5 seconds toward the TV.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## Precautions to Take when Using the Magic Remote Control

- Use the Magic remote control within the maximum communication distance (10 m). Using the remote control beyond this distance, or with an object obstructing it, may cause a communication failure.
- A communication failure may occur due to nearby devices. Electrical devices such as a microwave oven or wireless LAN product may cause interference, as these use the same bandwidth (2.4 GHz) as the Magic remote control.
- The Magic remote control may be damaged or may malfunction if it is dropped or receives a heavy impact.
- Take care not to bump into nearby furniture or other people when using the Magic remote control.
- Manufacturer and installer cannot provide service related to human safety as the applicable wireless device has possibility of electric wave interference.
- It is recommended that an Access Point (AP) be located more than 1 m away from the TV. If the AP is installed closer than 1 m, the Magic remote control may not perform as expected due to frequency interference.

## How to use Magic Remote Control

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>1 You can move the pointer by moving the remote up and down or left and right.</p> <ul style="list-style-type: none"> <li>» If the pointer does not work properly, wait 10 seconds and then try again.</li> </ul> <p>2 If the pointer disappears, move the remote control slightly to left or right. It will then automatically appear on the screen.</p> <ul style="list-style-type: none"> <li>» If the pointer has not been used for a certain period of time, it will disappear.</li> </ul> |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## REMOTE CONTROL

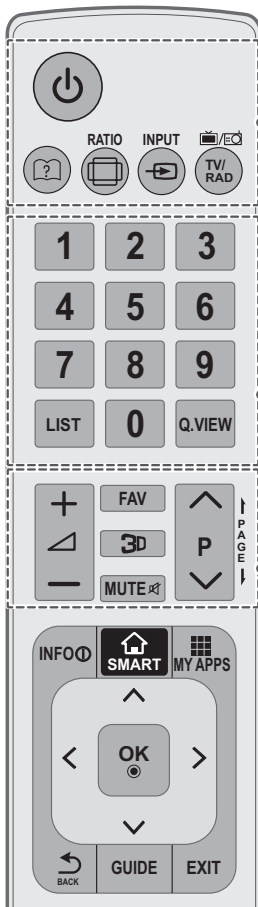
The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly. To install batteries, open the battery cover, replace batteries (1.5 V AAA) matching the  $\oplus$  and  $\ominus$  ends to the label inside the compartment, and 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.
- In Analogue TV and some countries, some remote control buttons may not work.

This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.



#### (POWER)

Turns the TV on or off.

#### (User Guide)

Sees user-guide.

#### RATIO

Resizes an image.

#### INPUT

Changes the input source.

#### TV/RAD

Selects Radio, TV and DTV programme.

#### Number button

Enters numbers.

#### LIST

Accesses the saved channel list.

#### Q.VIEW

Tunes to the last channel viewed.

#### 

Adjusts the volume level.

#### FAV

Accesses your favorite channel list.

#### 3D

Used for viewing 3D video.

#### MUTE

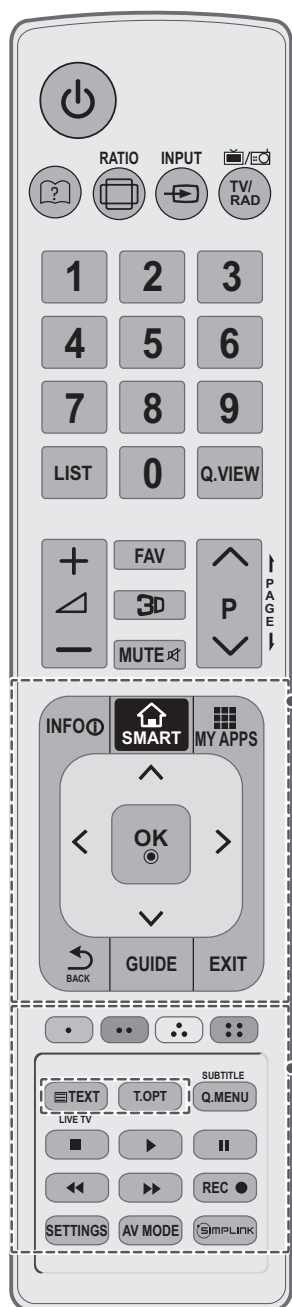
Mutes all sounds.

#### 

Scrolls through the saved channels.

#### PAGE

Moves to the previous or next screen.



ENGLISH

**INFO ⓘ**

Views the information of the current program and screen.

**SMART** 

Accesses the Smart Home menu.

**MY APPS** 

Shows the list of Apps.

**Navigation buttons** (up/down/left/right)

Scrolls through menus or options.

**OK** 

Selects menus or options and confirms your input.

**BACK** 

Returns to the previous level.

**GUIDE**

Displays the program event according to time scheduler.

**EXIT**

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

**Color buttons**

These access special functions in some menus.

(  : Red,  : Green,  : Yellow,  : Blue)**TELETEXT BUTTONS** (  TEXT, T.OPT)

These buttons are used for teletext.

**Q.MENU**

Accesses the quick menu.

**SUBTITLE**

Recalls your preferred subtitle in digital mode.

**Control buttons** (  ,  ,  ,  ,  )

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

**LIVE TV**

Returns to the LIVE TV.

**REC** 

Start to record and display record menu.

**SETTINGS**

Accesses the main menu.

**AV MODE**

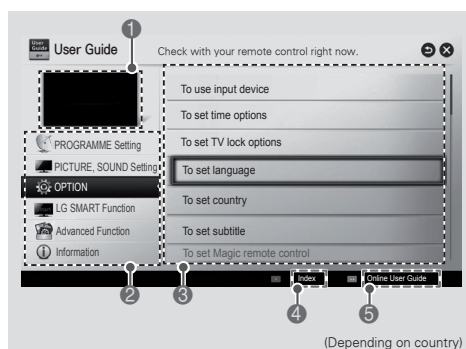
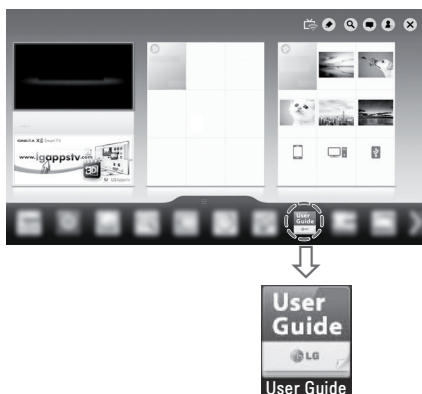
Selects an AV mode.

**SIMPLINK** Accesses the AV devices connected with the HDMI cable through HDMI-CEC.  
Opens the SIMPLINK menu.

# USING THE USER GUIDE

User Guide allows you to more easily access the detailed TV information.

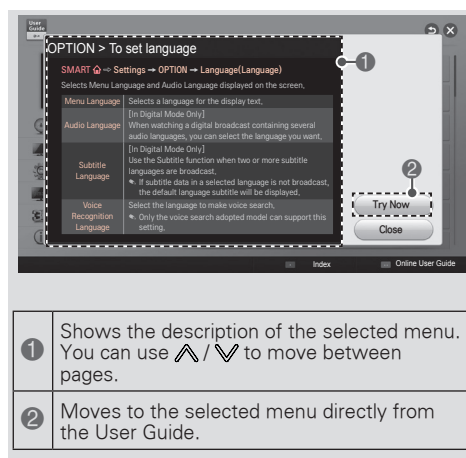
- 1 Press **SMART**  button to access the Smart Home menus.
- 2 Select **User Guide** and press the  **Wheel** (OK) button.



(Depending on country)

|   |                                                                                                                                                                                                                                              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Shows the current watching programme or input source screen.                                                                                                                                                                                 |
| 2 | Allows to select the category you want.                                                                                                                                                                                                      |
| 3 | Allows to select the item you want. You can use  /  to move between pages. |
| 4 | Allows to browse the description of the function you want from the index.                                                                                                                                                                    |
| 5 | Provides the detailed information on the functions of LG Smart TV when the Internet is connected. (It may not be available depending on the country/language.)                                                                               |

ENGLISH



|   |                                                                                                                                                                                                                                                          |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Shows the description of the selected menu. You can use  /  to move between pages. |
| 2 | Moves to the selected menu directly from the User Guide.                                                                                                                                                                                                 |

## SPECIFICATIONS

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

|           |                            | Digital TV      | Analogue TV                                                                                                                   |
|-----------|----------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------|
| Hong-Kong | Television System          | DTMB            | PAL D/K, PAL I, NTSC M                                                                                                        |
|           | Program Coverage           | DTMB : 21 to 69 | PAL D/K : VHF/UHF 1 to 69, Cable 1 to 47<br>PAL I : VHF/UHF 1 to 69, Cable 1 to 47<br>NTSC M : VHF/UHF 2 to 78, Cable 1 to 71 |
|           | 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 % |

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

| MODELS                              |               | 55LA9650<br>(55LA9650-CA) |
|-------------------------------------|---------------|---------------------------|
| Dimensions (Width x Height x Depth) | With stand    | 1234 x 790 x 261 (mm)     |
|                                     | Without stand | 1234 x 755 x 41.9 (mm)    |
| Weight                              | With stand    | 26.1 Kg                   |
|                                     | Without stand | 24.6 Kg                   |
| Power requirement                   |               | AC 100-240 V~ 50 / 60 Hz  |

| MODELS                              |               | 65LA9650<br>(65LA9650-CA) |
|-------------------------------------|---------------|---------------------------|
| Dimensions (Width x Height x Depth) | With stand    | 1455 x 912 x 294 (mm)     |
|                                     | Without stand | 1455 x 881 x 43.5 (mm)    |
| Weight                              | With stand    | 30.2 Kg                   |
|                                     | Without stand | 28.4 Kg                   |
| Power requirement                   |               | AC 100-240 V~ 50 / 60 Hz  |

| MODELS                                 |               | 55LA9700<br>(55LA9700-CA)     |
|----------------------------------------|---------------|-------------------------------|
| Dimensions (Width<br>x Height x Depth) | With stand    | 1230 x 781 x 274 (mm)         |
|                                        | Without stand | 1230 x 714 (*743) x 40.2 (mm) |
| Weight                                 | With stand    | 31 Kg                         |
|                                        | Without stand | 27.9 Kg                       |
| Power requirement                      |               | AC 100-240 V~ 50 / 60 Hz      |

| MODELS                                 |               | 65LA9700<br>(65LA9700-CA)     |
|----------------------------------------|---------------|-------------------------------|
| Dimensions (Width<br>x Height x Depth) | With stand    | 1451 x 910 x 325 (mm)         |
|                                        | Without stand | 1451 x 838 (*868) x 40.8 (mm) |
| Weight                                 | With stand    | 44.2 Kg                       |
|                                        | Without stand | 40.6 Kg                       |
| Power requirement                      |               | AC 100-240 V~ 50 / 60 Hz      |

| MODELS                                 |               | 84LA9800<br>(84LA9800-CA) |
|----------------------------------------|---------------|---------------------------|
| Dimensions (Width<br>x Height x Depth) | With stand    | 1916 x 1214 x 399 (mm)    |
|                                        | Without stand | 1916 x 1120 x 39.9 (mm)   |
| Weight                                 | With stand    | 81.7 Kg                   |
|                                        | Without stand | 70.4 Kg                   |
| Power requirement                      |               | AC 100-240 V~ 50 / 60 Hz  |

\* : Sliding Speaker open state (For 55/65LA9700)

## HDMI (DTV) supported mode

| Resolution  | Horizontal Frequency (kHz)                                                           | Vertical Frequency (Hz)                                                  |
|-------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 640 x 480   | 31.469<br>31.5                                                                       | 59.94<br>60                                                              |
| 720 x 480   | 31.47<br>31.5<br>15.73<br>15.75                                                      | 59.94<br>60.0<br>59.94<br>60.0                                           |
| 720 x 576   | 31.25<br>15.625                                                                      | 50<br>50                                                                 |
| 1280 x 720  | 37.5<br>44.96<br>45                                                                  | 50<br>59.94<br>60                                                        |
| 1920 x 1080 | 33.72<br>33.75<br>28.125<br>26.97<br>27<br>33.716<br>33.75<br>56.25<br>67.43<br>67.5 | 59.94<br>60<br>50<br>23.97<br>24<br>29.976<br>30.00<br>50<br>59.94<br>60 |
| 3840 x 2160 | 53.95<br>54<br>56.25<br>61.43<br>67.5                                                | 23.976<br>24.00<br>25.00<br>29.970<br>30.00                              |

## HDMI (PC) supported mode

| Resolution  | Horizontal Frequency (kHz) | Vertical Frequency (Hz) |
|-------------|----------------------------|-------------------------|
| 640 x 350   | 31.468                     | 70.09                   |
| 720 x 400   | 31.469                     | 70.09                   |
| 640 x 480   | 31.469                     | 59.94                   |
| 800 x 600   | 37.879                     | 60.317                  |
| 1024 x 768  | 48.363                     | 60.004                  |
| 1152 x 864  | 54.348                     | 60.053                  |
| 1360 x 768  | 47.712                     | 60.015                  |
| 1280 x 1024 | 63.981                     | 60.020                  |
| 1920 x 1080 | 67.50                      | 60.00                   |
| 3840 x 2160 | 54<br>56.25<br>67.5        | 24.00<br>25.00<br>30.00 |

## Component port connecting information

|                           |   |    |    |
|---------------------------|---|----|----|
| Component ports on the TV | Y | PB | PR |
|---------------------------|---|----|----|

|                                  |   |     |     |
|----------------------------------|---|-----|-----|
| Video output ports on DVD player | Y | PB  | PR  |
|                                  | Y | B-Y | R-Y |
|                                  | Y | Cb  | Cr  |
|                                  | Y | Pb  | Pr  |

| Signal     | Component                 |
|------------|---------------------------|
| 480i/576i  | O                         |
| 480p/576p  | O                         |
| 720p/1080i | O                         |
| 1080p      | O<br>(50 Hz / 60 Hz only) |

## Wireless LAN module (WN8122E1) specification

|                     |                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| Standard            | IEEE802.11a/b/g/n                                                                                                   |
| Frequency Range     | 2400 to 2483.5 MHz<br>5150 to 5250 MHz<br>5725 to 5850 MHz                                                          |
| Output Power (Max.) | 802.11a: 16.5 dBm<br>802.11b: 16 dBm<br>802.11g: 15.5 dBm<br>802.11n - 2.4GHz: 15.5 dBm<br>802.11n - 5GHz: 16.5 dBm |

## Bluetooth module (BM-LDS401) specification

|                     |                       |
|---------------------|-----------------------|
| Standard            | Bluetooth Version 3.0 |
| Frequency Range     | 2400 ~ 2483.5 MHz     |
| Output Power (Max.) | 10 dBm or lower       |

**[ULTRA HD] Video Supported Codec**

- Maximum : 3840 x 2160 @ 30p
- Maximum data transfer rate  
3840 x 2160 (H.264 L5.1) : 50Mbps (megabits per second)  
3840 x 2160 (H.265 L5.0) : 25Mbps (megabits per second)

| Extension         | Codec |                                                |
|-------------------|-------|------------------------------------------------|
| .mkv / .mp4 / .ts | Video | H.264 / AVC                                    |
|                   | Audio | Dolby Digital, Dolby Digital Plus, AAC, HE-AAC |
| .ts               | Video | H.265 (HEVC)                                   |
|                   | Audio | Dolby Digital, Dolby Digital Plus, AAC, HE-AAC |

**! NOTE**

- New codecs can be updated through SW upgrade.
- Video files created by some encoders may not be played back.
- LG's ULTRA HD is fully compatible with most of ULTRA HD contents encode in HEVC delivering stunning high resolution contents. However it may not support certain types of codec contents.
- Video files in formats other than the ones specified here may not be played back.
- Playback of video files stored on a USB device that does not support High Speed, may not work properly.
- Some subtitles created by users may not work properly.
- The video and subtitle files should be placed in the same folder. In this case, you must assign the same names for the video and subtitle files for proper display.
- It supports the playback through USB only.
- Some ULTRA HD models need connection with "ULTRA HD Upgrade Kit".

## 3D supported mode

| 3D supported mode manually |             |                                       |                                             |                                                                                                                     |
|----------------------------|-------------|---------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Input                      | Signal      |                                       |                                             | Playable 3D video format                                                                                            |
|                            | Resolution  | Horizontal Frequency (kHz)            | Vertical Frequency (Hz)                     |                                                                                                                     |
| DTV                        | HD / SD     | -                                     | -                                           | 2D to 3D, Side by Side (Half), Top & Bottom                                                                         |
| ATV (CVBS)                 | SD          | -                                     | -                                           |                                                                                                                     |
| Component                  | HD / SD     | -                                     | -                                           |                                                                                                                     |
| HDMI-PC                    | 1024 x 768  | 48.36                                 | 60                                          | 2D to 3D, Side by Side (Half), Top & Bottom, Checker Board, Frame Sequential, Row Interleaving, Column Interleaving |
|                            | 1360 x 768  | 47.71                                 |                                             |                                                                                                                     |
|                            | 1920 x 1080 | 67.5                                  |                                             |                                                                                                                     |
|                            | 3840 x 2160 | 54<br>56.25<br>67.5                   | 24.00<br>25.00<br>30.00                     | 2D to 3D, Top-and-Bottom (Half), Side-by-side (Half)                                                                |
|                            | Others      | -                                     | -                                           | 2D to 3D, Side by Side (Half), Top & Bottom                                                                         |
| HDMI-DTV                   | 480P        | 31.5                                  | 60                                          | 2D to 3D, Side by Side (Half), Top & Bottom, Checker Board, Frame Sequential, Row Interleaving, Column Interleaving |
|                            | 576P        | 31.25                                 | 50                                          |                                                                                                                     |
|                            | 720p        | 37.5                                  | 50                                          |                                                                                                                     |
|                            |             | 45                                    | 60                                          |                                                                                                                     |
|                            | 1080i       | 28.12                                 | 50                                          | 2D to 3D, Side by Side (Half), Top & Bottom                                                                         |
|                            |             | 33.75                                 | 60                                          |                                                                                                                     |
|                            | 1080p       | 27                                    | 24                                          | 2D to 3D, Side by Side (Half), Top & Bottom, Checker Board, Row Interleaving, Column Interleaving                   |
|                            |             | 28.12                                 | 25                                          |                                                                                                                     |
|                            |             | 33.75                                 | 30                                          |                                                                                                                     |
|                            |             | 56.25                                 | 50                                          | 2D to 3D, Side by Side (Half), Top & Bottom, Checker Board, Frame Sequential, Row Interleaving, Column Interleaving |
|                            |             | 67.5                                  | 60                                          |                                                                                                                     |
|                            | 2160p       | 53.95<br>54<br>56.25<br>61.43<br>67.5 | 23.976<br>24.00<br>25.00<br>29.970<br>30.00 | 2D to 3D, Top-and-Bottom (Half), Side-by-Side (Half)                                                                |

| 3D supported mode manually |                            |                            |                         |                                                                                                                     |
|----------------------------|----------------------------|----------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| Input                      | Signal                     |                            |                         | Playable 3D video format                                                                                            |
|                            | Resolution                 | Horizontal Frequency (kHz) | Vertical Frequency (Hz) |                                                                                                                     |
| USB ,DLNA (Movie)          | Under 704 x 480            | -                          | -                       | 2D to 3D                                                                                                            |
|                            | Over 704 x 480 interlaced  | -                          | -                       | 2D to 3D, Side by Side (Half), Top & Bottom                                                                         |
|                            | Over 704 x 480 progressive | -                          | 50 / 60                 | 2D to 3D, Side by Side (Half), Top & Bottom, Checker Board, Frame Sequential, Row Interleaving, Column Interleaving |
|                            |                            | -                          | others                  | 2D to 3D, Side by Side (Half), Top & Bottom, Checker Board, Row Interleaving, Column Interleaving                   |
| USB, DLNA (Photo)          | Under 320 x 240            | -                          | -                       | 2D to 3D                                                                                                            |
|                            | Over 320 x 240             | -                          | -                       | 2D to 3D, Side by Side (Half), Top & Bottom                                                                         |
| Miracast/ Widi             | 1024 x 768p                | -                          | 30 / 60                 | 2D to 3D, Side by Side (Half), Top & Bottom                                                                         |
|                            | 1280 x 720p                | -                          | 30 / 60                 |                                                                                                                     |
|                            | 1920 x 1080p               | -                          | 30 / 60                 |                                                                                                                     |
|                            | Others                     | -                          | -                       | 2D to 3D                                                                                                            |

- Video, which is input as below media contents is switched into the 3D screen automatically.

| 3D supported mode automatically |           |                            |                         |                                                                         |
|---------------------------------|-----------|----------------------------|-------------------------|-------------------------------------------------------------------------|
| Input                           | Signal    | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Playable 3D video format                                                |
| HDMI                            | 640 x 480 | 31.469 / 31.5              | 59.94 / 60              | Top & Bottom, Side by Side(Half), Side by Side(Full)                    |
|                                 |           | 62.938 / 63                |                         | Frame Packing, Line Alternative                                         |
|                                 | 480p      | 31.469 / 31.5              |                         | Top & Bottom, Side by Side(Half), Side by Side(Full)                    |
|                                 |           | 62.938 / 63                |                         | Frame Packing, Line Alternative                                         |
|                                 | 576p      | 31.25                      | 50                      | Top & Bottom, Side by Side(Half), Side by Side(Full)                    |
|                                 |           | 62.5                       |                         | Frame Packing, Line Alternative                                         |
|                                 | 720p      | 37.50                      | 50                      | Top & Bottom, Side by Side(Half), Side by Side(Full)                    |
|                                 |           | 44.96 / 45                 | 59.94 / 60              |                                                                         |
|                                 |           | 75                         | 50                      | Frame Packing, Line Alternative                                         |
|                                 |           | 89.91 / 90                 | 59.94 / 60              |                                                                         |
|                                 | 1080i     | 28.125                     | 50                      | Top & Bottom, Side by Side(Half), Side by Side(Full)                    |
|                                 |           | 33.72 / 33.75              | 59.94 / 60              |                                                                         |
|                                 |           | 56.25                      | 50                      | Frame Packing, Field Alternative                                        |
|                                 |           | 67.432 / 67.5              | 59.94 / 60              |                                                                         |
|                                 | 1080p     | 26.97 / 27                 | 23.97 / 24              | Top & Bottom, Side by Side(Half), Side by Side(Full)                    |
|                                 |           | 28.125                     | 25                      |                                                                         |
|                                 |           | 33.716 / 33.75             | 29.976 / 30             |                                                                         |
|                                 |           | 43.94 / 54                 | 23.97 / 24              | Frame Packing, Line Alternative                                         |
|                                 |           | 56.25                      | 25                      |                                                                         |
|                                 |           | 67.432 / 67.5              | 29.976 / 30             |                                                                         |
|                                 |           | 56.25                      | 50                      | Top & Bottom, Side by Side(Half)                                        |
|                                 |           | 67.432 / 67.5              | 59.94 / 60              |                                                                         |
| USB                             | 1080p     | 33.75                      | 30                      | Side by Side(Half), Top & Bottom, Checker Board, MPO(Photo), JPS(Photo) |
| DLNA                            | 1080p     | 33.75                      | 30                      |                                                                         |

## EXTERNAL CONTROL DEVICE SETUP

To obtain the external control device setup information, please visit [www.lg.com](http://www.lg.com).

## MAINTENANCE

### Cleaning Your TV

Clean your TV regularly to keep it at peak performance and to extend the product 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 or unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

### Screen, Frame, Cabinet and Stand

To remove dust or light dirt, wipe the surface with a dry, clean, 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 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, or lubricants, as these may damage the screen's finish and cause discoloration.
- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.

### Power Cord

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

ENGLISH

## TROUBLESHOOTING

| Problem                                        | Solution                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cannot control the TV with the remote control. | <ul style="list-style-type: none"> <li>• Check the remote control sensor on the product and try again.</li> <li>• Check if there is any obstacle between the product and the remote control.</li> <li>• Check if the batteries are still working and properly installed (+ to +, - to -).</li> </ul>                             |
| No image display and no sound is produced.     | <ul style="list-style-type: none"> <li>• Check if the product is turned on.</li> <li>• Check if the power cord is connected to a wall outlet.</li> <li>• Check if there is a problem in the wall outlet by connecting other products.</li> </ul>                                                                                 |
| The TV turns off suddenly.                     | <ul style="list-style-type: none"> <li>• Check the power control settings. The power supply may be interrupted.</li> <li>• Check if the Auto sleep feature is activated in the Time settings.</li> <li>• If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.</li> </ul> |



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 \_\_\_\_\_