

Printing specification		Drawn	Checked	Approved
	Signature	Sungho. Jo	Mira.Woo	JongOk.Kim
	MMM/DD/YYYY	Mar/25/2014	Mar/25/2014	Mar/25/2014

1. Model Description

Model name	: 49UB850V-ZA	Brand name	: LG	Part number	: MFL6806606
2nd, 3rd Suffix	: EK	Product name	: 49UB850V-ZA	(Revision number)	: (1403-REV00)

2. Printing Specification

1. Trim size (Format)	: 148 mm x 210 mm (A5)
2. Printing colors	
• Cover	: 1 Color (Black)
• Inside	: 1 Color (Black)
3. Stock (Paper)	
• Cover	: Uncoated, wood-free paper 60 g/m ²
• Inside	: Uncoated, wood-free paper 60 g/m ²
4. Bindery	: Saddle stitching
5. Language	: ENG (1)
6. Number of pages	: 48

N O T E	<p>“This part contains Eco-hazardous substances (Pb, Cd, Hg, Cr6+, PBB, PBDE, etc.) within LG standard level, Details should be followed Eco-SCM management standard[LG(56)-A-2524]. Especially, Part should be followed and controlled the following specification. (1) Eco-hazardous substances test report should be submitted when Part certification test and First Mass Production. (2) Especially, Don't use or contain lead(Pb) and cadmium(Cd) in ink.</p>
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3. Origin Notification

LGEAK	: Printed in Kazakhstan	LGEKR	: Printed in Korea	LGERS	: Printed in Mexico
LGEAZ	: Printed in Brazil	LGEMA	: Printed in Poland	LGESY	: Printed in China
LGEEG	: Printed in Egypt	LGEMX	: Printed in Mexico	LGETH	: Printed in Thailand
LGEIL	: Printed in India	LGEND	: Printed in China	LGEVN	: Printed in Vietnam
LGEIN	: Printed in Indonesia	LGERA	: Printed in Russia	LGEWR	: Printed in Poland
LGEAS	: Printed in Algeria				

4. Changes

10				
9				
8				
7				
6				
5				
4				
3				
2				
1				
Rev. Number	MMM/DD/YYYY	Signature	ECO Number	Change Contents

Pagination sheet

Part number : **MFL6806606**
Total pages : **48 pages**

Front (ENG) P/No.

2	...
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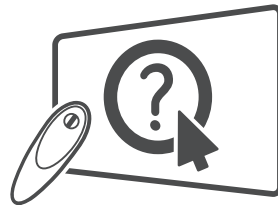
46	Blank
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Back Cover (ENG)



OWNER'S MANUAL LED TV

* LG LED TV applies LCD screen
with LED backlights.



Click! User Guide

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

UB85**

UB95**

UB98**



www.lg.com

P/NO : MFL68066606 (1403-REV00)

Printed in Korea

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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.

LICENSES

Supported licenses may differ by model. For more information about licenses, visit www.lg.com.



OPEN SOURCE SOFTWARE NOTICE

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

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

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to opensource@lge.com.

This offer is valid for three (3) years from the date on which you purchased the product.

EXTERNAL CONTROL DEVICE SETUP

To obtain the external control device setup information, please visit 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.



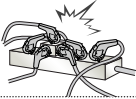
- Do not place a heavy object, or the product itself, on power cables.
Otherwise, this may result in fire or electric shock.



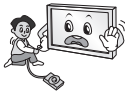
- Bend antenna cable between inside and outside building to prevent rain from flowing in. This may cause water damaged inside the Product and could give an electric shock.



- 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.

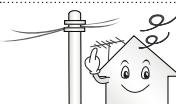


- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

- Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.


CAUTION

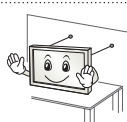

- Install the product where no radio wave occurs.



- 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.



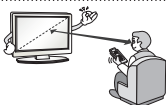
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.

- 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.

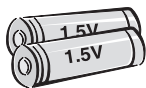
- Only use the attachments / accessories specified by the manufacturer.



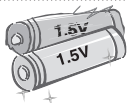
- When installing the antenna, consult with a qualified service technician. If not installed by a qualified technician, this may create a fire hazard or an electric shock hazard.



- 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.

- Batteries should not be exposed to excessive heat. For example, keep away from direct sunlight, open fireplace and electric heaters.

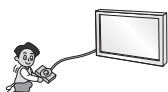
- Do not place non-rechargeable batteries in charging device.



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



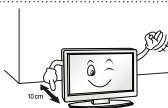
- Signal from Remote Control can be interrupted due to external/internal lighting eg Sunlight, fluorescent lighting.
If this occurs turn off lighting or darken viewing area.



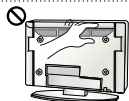
- When connecting external devices such as video game consoles, make sure the connecting cables are long enough.
Otherwise, the product may fall over, which may cause injury or damage the product.



- 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.

Viewing 3D Imaging (Only 3D models)



WARNING

Viewing Environment

- Viewing Time
 - When watching 3D contents, take 5 - 15 minute breaks every hour. Viewing 3D contents 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 contents.
- Do not watch 3D videos if you feel nausea, are pregnant and/ or have a chronic illness such as epilepsy, cardiac disorder, or blood pressure disease, etc.
- 3D Contents are not recommended to 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 frequent breaks than the average adult.
- If your eyesight varies between your right and left eye, revise your eyesight prior to watching 3D contents.

Symptoms which require discontinuation or refraining from watching 3D contents

- Do not watch 3D contents when you feel fatigue from lack of sleep, overwork or drinking.
- When these symptoms are experienced, stop using/watching 3D contents 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 contents. If you feel discomfort in viewing 3D contents, move further away from the TV.

Viewing Age

- Infants/Children
 - Usage/ Viewing 3D contents for children under the age of 6 are 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 contents.
 - 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
 - Teenagers under the age of 19 may react with sensitivity due to stimulation from light in 3D contents. Advise them to refrain from watching 3D contents for a long time when they are tired.
- Elderly
 - The elderly may perceive less 3D effect compared to 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 easily scratched. Always 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.

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.
- The TV can be placed in standby mode in order to reduce the power consumption. And the TV should be turned off if it will not be watched for some time, as this will reduce energy consumption.
- The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost.

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.

* If the TV is turned on for the first timer after it was shipped from the factory, initialization of the TV may take a few minutes.

ASSEMBLING AND PREPARING

Unpacking

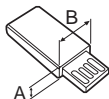
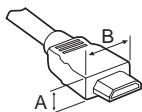
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.

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.
- Some models have a thin film attached on to the screen and this must not be removed.

NOTE

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



*A ≦ 10 mm

*B ≦ 18 mm

ENGLISH

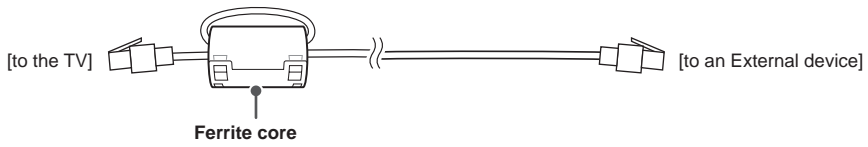
NOTE

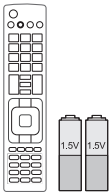
How to use the ferrite core (Depending on model)

- Use the ferrite core to reduce the electromagnetic interference in the LAN cable. Wind the LAN cable once on the ferrite core. Place the ferrite core close to the TV.

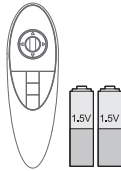


[Cross Section of Ferrite Core]





Remote Control, Batteries (AAA)
(Depending on model)
The remote control will not be included for all sales market.
(See p. 37, 38)



Magic remote, batteries (AA)
(Only UB85**, UB95**, UB98**)
(See p. 39)



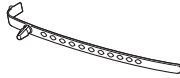
Owner's manual



Tag on
(Depending on model)



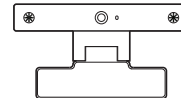
Power Cord



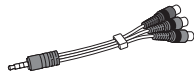
Cable holder
(Depending on model)
(See p. 27, 28)



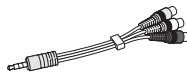
Cinema 3D Glasses
The number of 3D glasses may differ depending on the model or country.



Video call camera
(Depending on model)



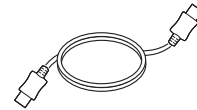
Component gender cable
(See p. 33)



Composite gender cable
(See p. 33)



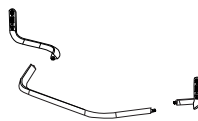
Scart gender cable
(Depending on model)
(See p. 36)



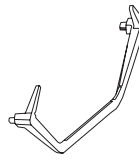
HDMI cable
(Depending on model)
(See p. 31)



Stand Body / Stand Base
(Only UB85**-ZA, UB95**-ZA)
(See p. 22)



Stand Body / Stand Base
(Only UB85**-ZD, UB95**-ZB)
(See p. 23)



Stand Base
(Only UB98**)
(See p. 24)



Stand Screws
8EA, M4 x L20
(Only UB85**-ZA, UB95**-ZA)
4EA, M4 x L20
(Only UB85**-ZD, UB95**-ZB)
(See p. 22, 23)



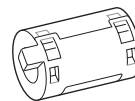
Stand Screws
4EA, M4 x L10
(Only UB85**-ZD,
UB95**-ZB)
(See p. 23)



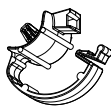
Stand Screws
4EA, M6 x L45
(Only 65UB98**)
(See p. 24)



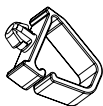
Stand Screws
4EA, M6 x L50
(Only 79/84UB98**)
(See p. 24)



Ferrite core
(Depending on model)



Cable Managements
2EA
(Only UB85**-ZA,
UB95**-ZA)
(See p. 27)



Cable Managements
2EA
(Only UB85**-ZD,
UB95**-ZB)
(See p. 27)



Wrench
(Only UB98**)
(See p. 24)

Separate purchase

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.

AG-F*DP**
Dual play glasses

AG-F***
Cinema 3D glasses

AN-MR500
Magic Remote

AN-VC5**
Video call camera

LG Audio Device

Tag on

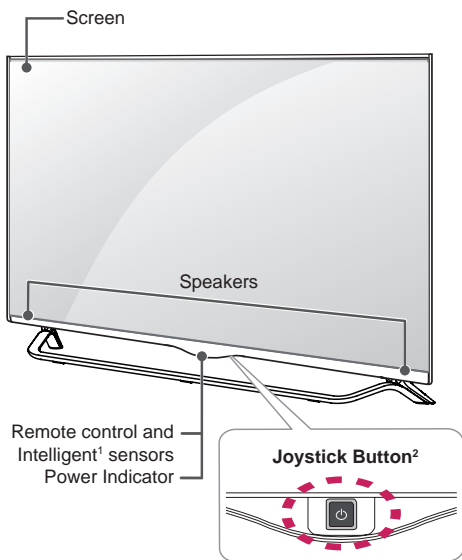
Compatibility	UB85**	UB95**	UB98**
AG-F***DP Dual play glasses	•	•	•
AG-F*** Cinema 3D glasses	•	•	•
AN-MR500 Magic Remote	•	•	•
AN-VC5** Video call camera	•	•	
LG Audio Device	•	•	•
Tag on	•	•	•

The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.

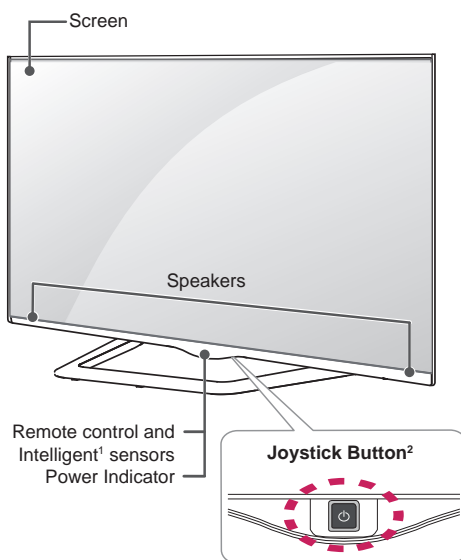
ENGLISH

Parts and buttons

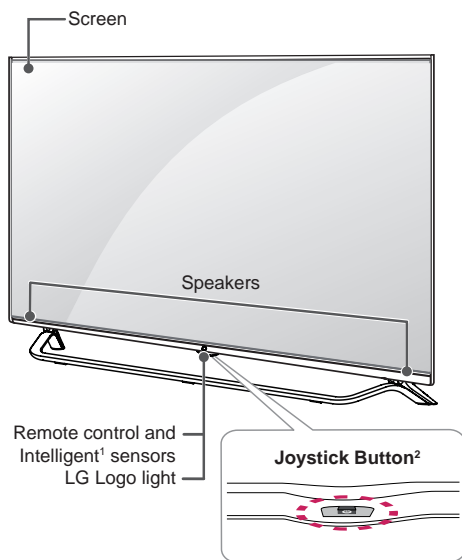
A type : UB85**-ZA



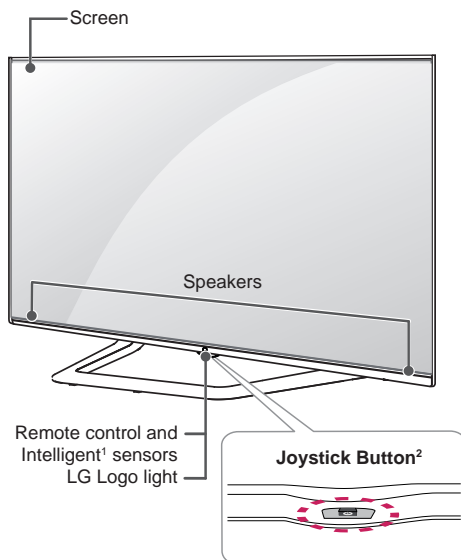
B type : UB85**-ZD



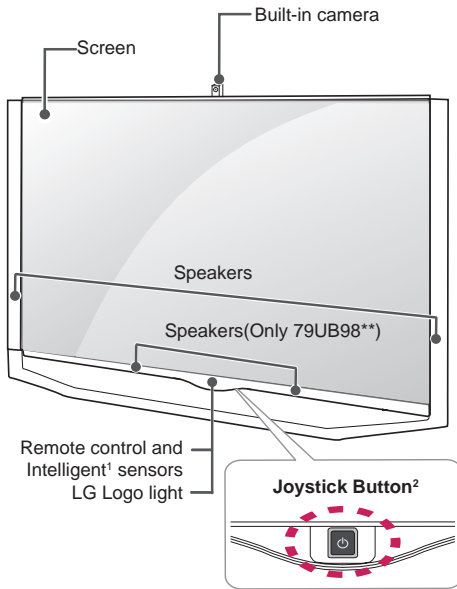
C type : UB95**-ZA



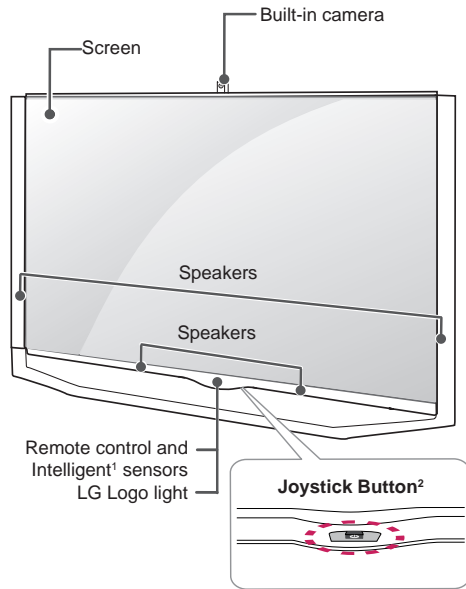
D type : UB95**-ZB



E type : 65/79UB98**



F type : 84UB98**



- 1 Intelligent sensor - Adjusts the image quality and brightness based on the surrounding environment.
- 2 Joystick Button - This button is located below or behind the TV screen.

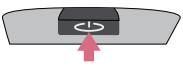
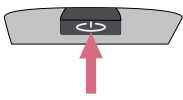

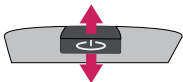
NOTE

- You can set the LG Logo Light or power indicator light to on or off by selecting **General** in the main menus. (Depending on model)

Using the joystick button

You can operate the TV by pressing the button or moving the joystick left, right, up, or down.

Basic Functions

	Power On	When the TV is turned off, place your finger on the joystick button and press it once and release it.
	Power Off	When the TV is turned on, place your finger on the joystick button and press it once for a few seconds and release it.
	Volume Control	If you place your finger over the joystick button and move it left or right, you can adjust the volume level you want.
	Programmes Control	If you place your finger over the joystick button and push it to the up or down, you can scrolls through the saved programmes what you want.





NOTE

- When your finger over the joystick button and push it to the up, down, left or right, be careful not to press the joystick button. If you press the joystick button first, you can not adjust the volume level and saved programmes.

Adjusting the Menu

When the TV is turned on, press the joystick button one time.

You can adjust the Menu items (⏻, ✕, 📶) moving the joystick button left or right.

		TV OFF	Turn the power off.
		CLOSE	Clears on-screen displays and return to TV viewing.
		INPUT	Changes the input source.

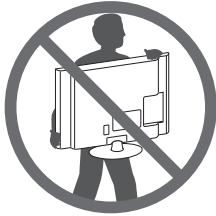
Lifting and moving the TV

Please note the following advice to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

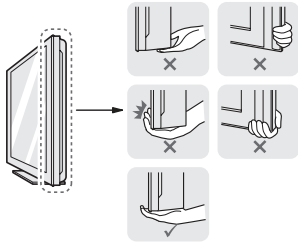
CAUTION

- Avoid touching the screen at all times, as this may result in damage to the screen.

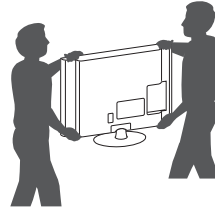
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



- 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.
- Do not apply excessive pressure to cause flexing / bending of frame chassis as it may damage screen.

ENGLISH

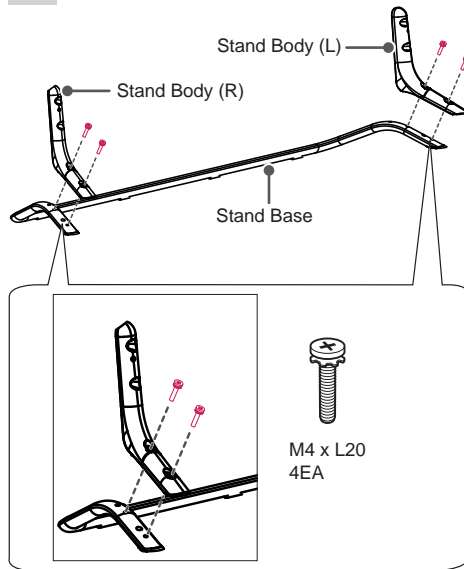
Setting up the TV

Image shown may differ from your TV.

Attaching the stand

UB85**-ZA, UB95**-ZA

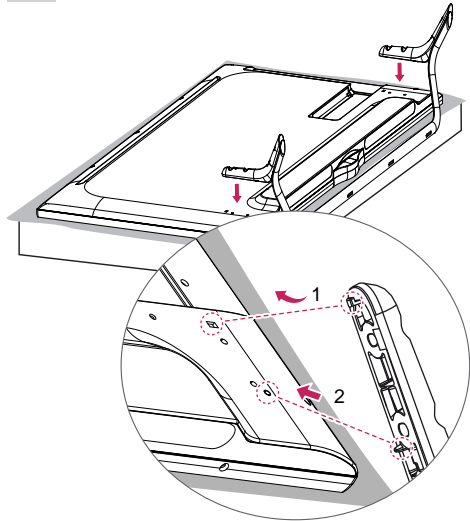
1



NOTE

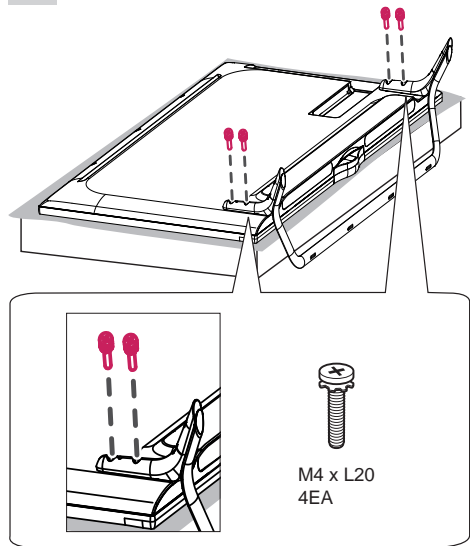
- Be sure to check the Stand Body (L), (R), when installing on the stand base.

2



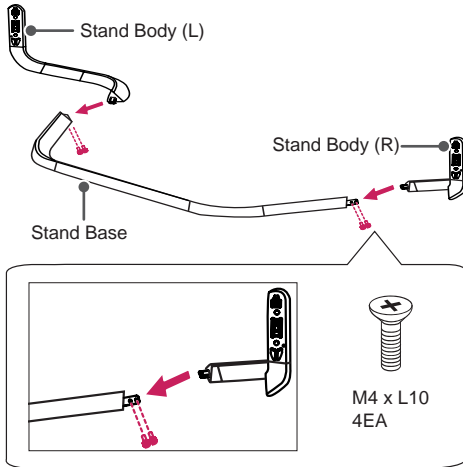
- 1 Attach the stand to the TV using the upper mounting hole on the back of the TV.
- 2 Attach the stand to the TV using the lower connection on the back of the TV.

3



UB85**-ZD, UB95**-ZB

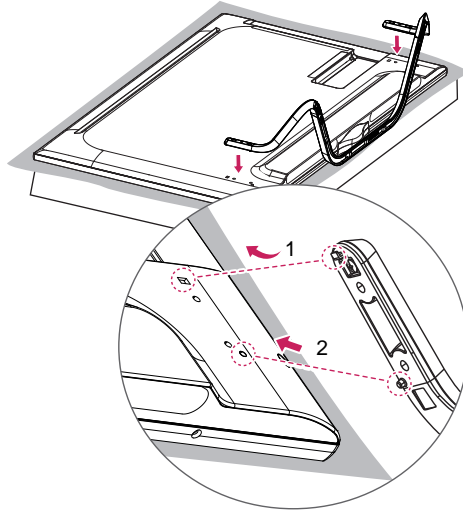
1



NOTE

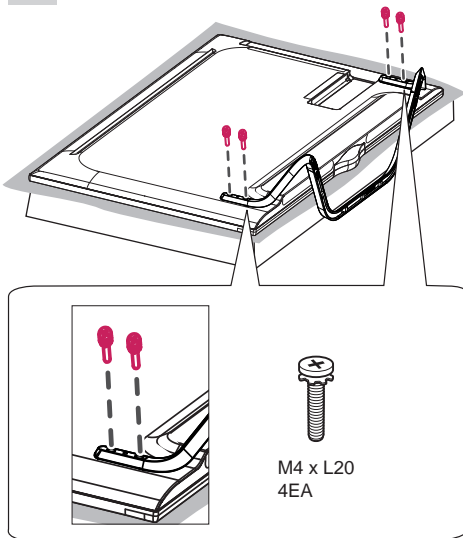
- Be sure to check the Stand Body (L), (R), when installing on the stand base.

2



- 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.

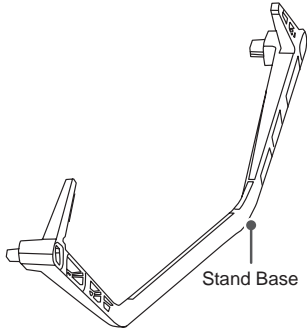
3



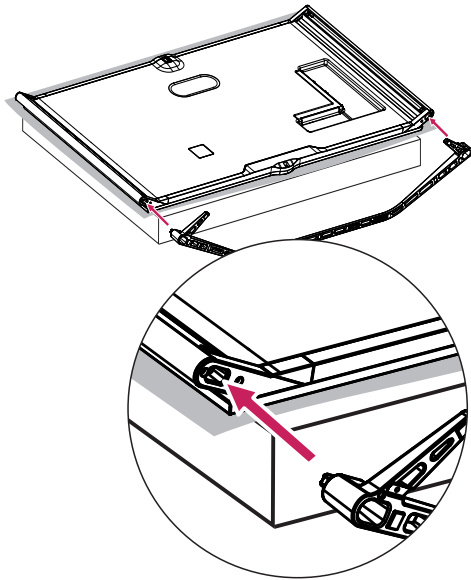
ENGLISH

UB98**

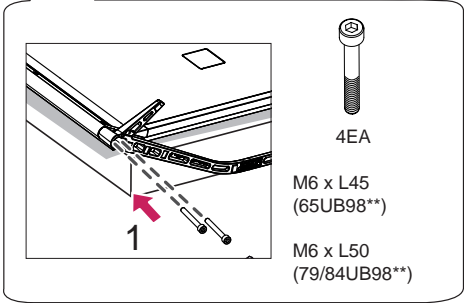
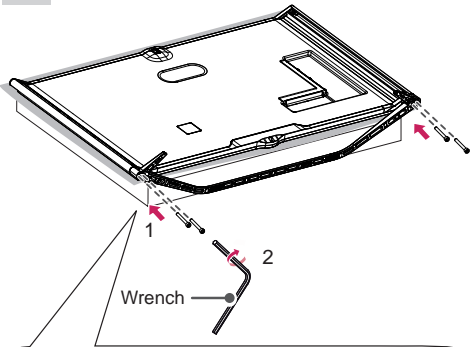
1



2

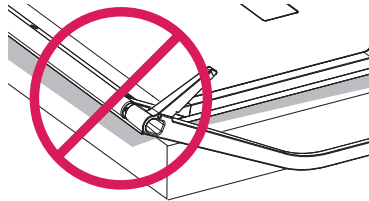
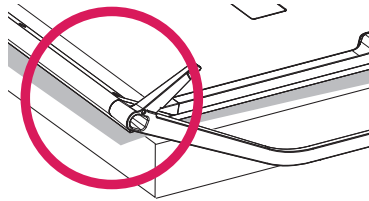


3



CAUTION

- Make sure that the screws are inserted correctly and fastened securely. (If they are not fastened securely enough, the TV may tilt forward after being installed.)



CAUTION

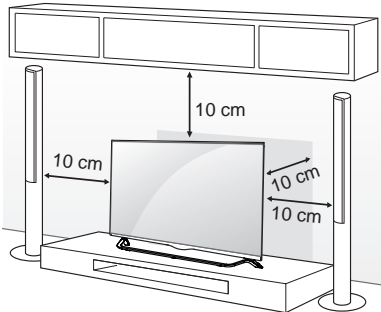
- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.
- Make sure that the screws are inserted correctly and fastened securely. (If they are not fastened securely enough, the TV may tilt forward after being installed.)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

NOTE

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

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.

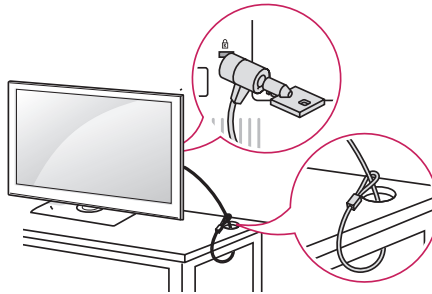
Using the Kensington security system

(This feature is not available for all models.)

- Image shown may differ from your TV.

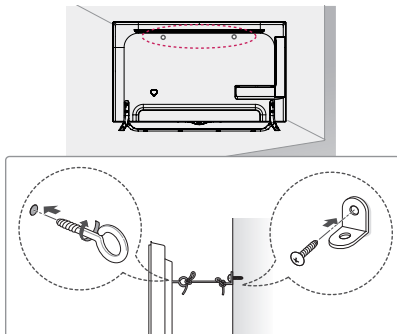
The Kensington security system connector is located at the rear of the TV. For more information of installation and using, refer to the manual provided with the Kensington security system or visit <http://www.kensington.com>.

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



Securing the TV to a wall

(This feature is not available for all models.)



- 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 not provided. You can obtain additional accessories from your local dealer.

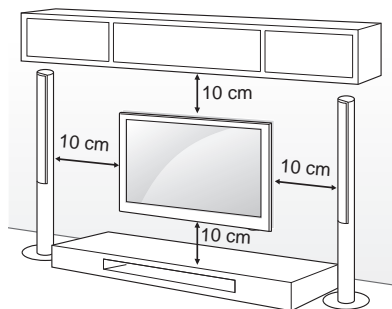
Mounting on a wall

Attach an optional wall mount bracket at the rear of the TV carefully and install the wall mount bracket on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel.

LG recommends that wall mounting be performed by a qualified professional installer.

We recommend the use of LG's wall mount bracket.

When you do not use LG's wall mount bracket, please use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices.



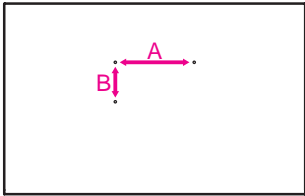
Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Separate purchase (Wall Mounting Bracket)

Model	49/55UB85** 55UB95**	65UB95** 65UB98**
VESA (A x B)	400 x 400	400 x 400
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket	LSW440B MSW240	LSW440B

Model	79/84UB98**
VESA (A x B)	600 x 400
Standard screw	M8
Number of screws	4
Wall mount bracket	LSW640B

Wall mount bracket		
LSW440B	MSW240	LSW640B



CAUTION

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

NOTE

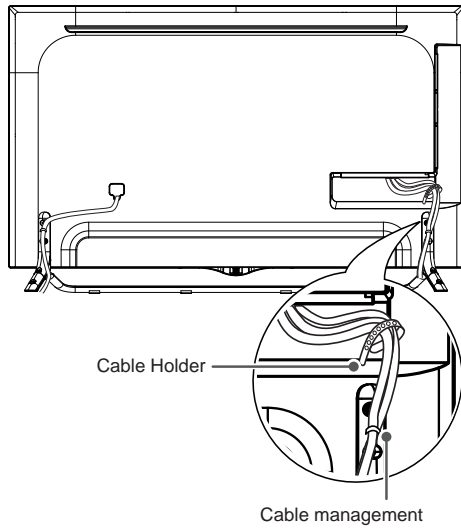
- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is not provided. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on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

Tidying cables

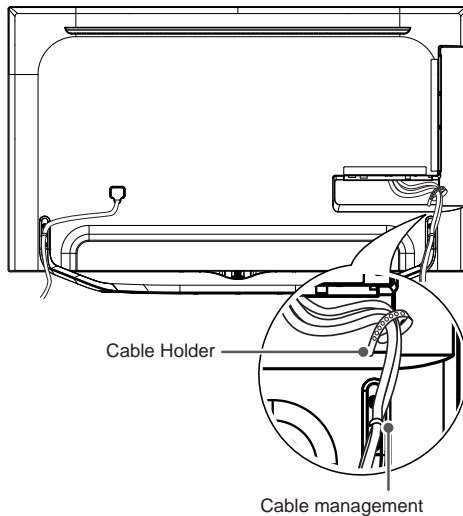
Image shown may differ from your TV.

- 1 Gather and bind the cables with the Cable Holder and the Cable Management.
- 2 Fix the Cable Management firmly to the TV.

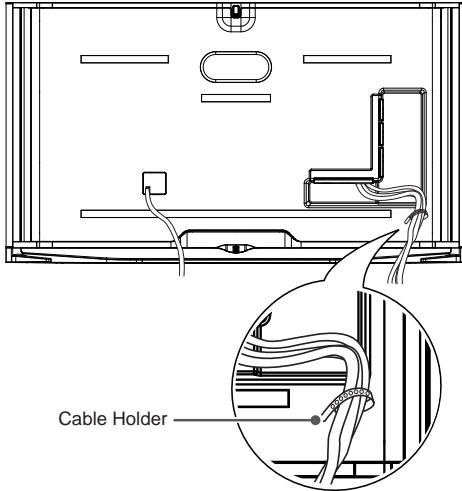
(Only UB85**-ZA, UB95**-ZA)



(Only UB85**-ZD, UB95**-ZB)



(Only UB98**)



Using Built-in Camera

(Only UB98**)

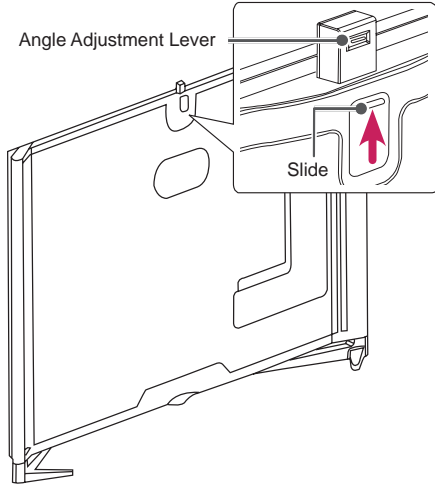
You can make a Skype video call or use the motion recognition function using the built-in camera of the TV. This TV does not support the use of an external camera.

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, avoid questionable, illegal, or immoral situations. Other than at public places or events, consent to be photographed may be required. 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

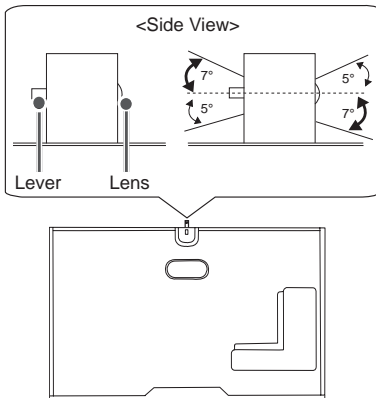
1 Pull up the slide at the back of the TV.



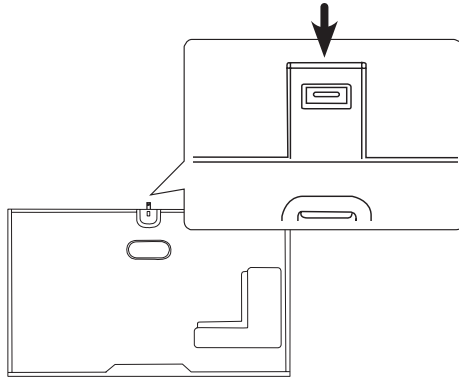
NOTE

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

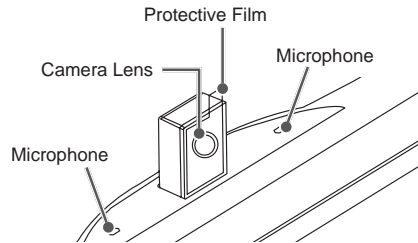
2 You can adjust the angle of the camera with the angle adjustment lever on the back of the built-in camera.



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



Name of Parts of Built-in Camera



Checking the Camera's Shooting Range

- Press the (Smart Home) button to access the Smart Home menu.
- Select Camera and then 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 on **MAKING CONNECTIONS** mainly uses diagrams for the UB85** models.

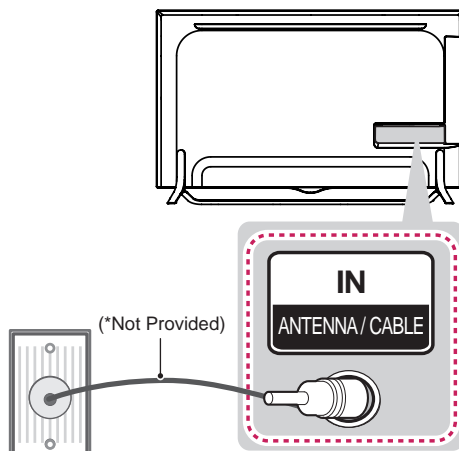
Connect various external devices to the TV and switch input modes to select an external device. For more information on external device's connection, refer to the manual provided with each device.

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

! NOTE

- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- 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.
- Refer to the external equipment's manual for operating instructions.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- 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.
- In PC mode, some resolution settings may not work properly depending on the graphics card.
- If Ultra HD content is played on your PC, video or audio may become disrupted intermittently depending on your PC's performance.

Antenna Connection



Wall Antenna Socket

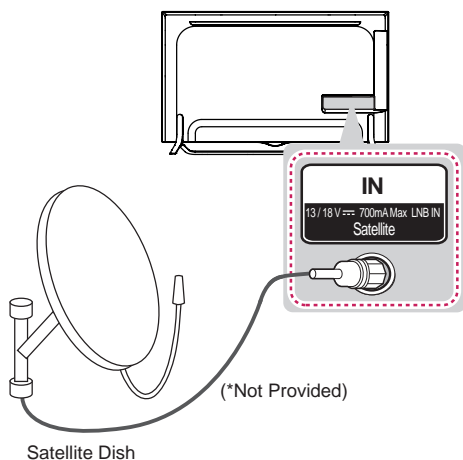
Connect the TV to a wall antenna socket with an RF cable (75 Ω).

! NOTE

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.
- An antenna cable and converter are not supplied.
- Supported DTV Audio: MPEG, Dolby Digital, Dolby Digital Plus, HE-AAC

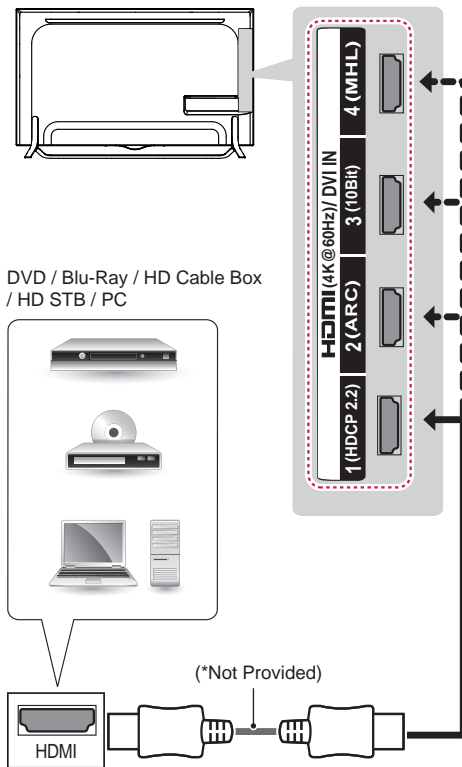
Satellite dish Connection

(Only satellite models)



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

HDMI Connection



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

NOTE

- It is recommended to use the TV with the HDMI connection for the best image quality.
- 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, DTS, PCM (Up to 192 KHz, 32KHz/44.1KHz/48KHz/88KHz/96KHz/176KHz/192KHz)
- When you use an HDMI cable(HDMI port3), it is recommended that you use the cable provided. If you use a regular HDMI cable, use a high-speed HDMI cable (3m or less).(Depending on model)

ENGLISH

- 1) HDMI specifications may be different for each input port, so make sure to check the device specifications before connecting.
- 2) Contact customer service for more information on the HDMI specifications of each input port.

4K@50/60Hz Support Format

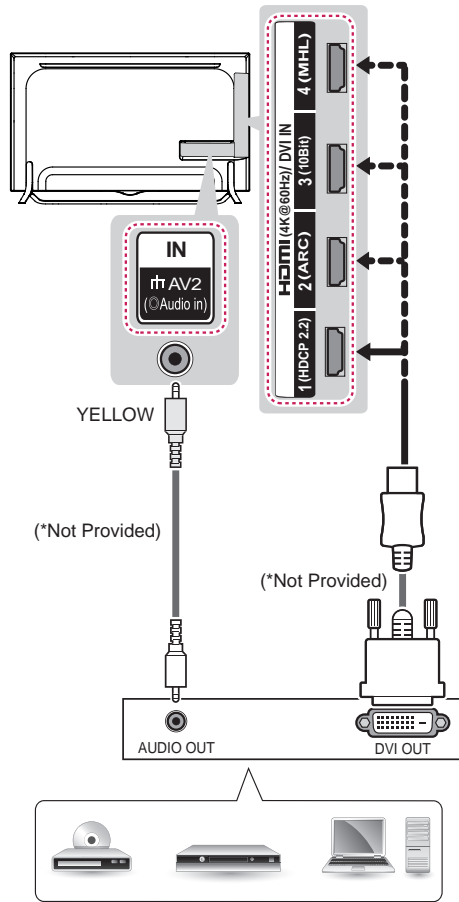
Resolution	Frame rate (Hz)	Colour Depth / Chroma Sampling		
		8bit	10bit	12bit
3840 x 2160p 4096 x 2160p	50.00 59.94 60.00	YCbCr 4:2:0	YCbCr 4:2:0 ¹	
		YCbCr 4:2:2 ¹		
	YCbCr 4:4:4 ¹	-	-	
	RGB 4:4:4 ¹	-	-	

1: Only Supported at HDMI3 Port

ARC (Audio Return Channel)

- An external audio device that supports SIMPLINK and ARC must be connected using **HDMI(4K@60Hz)/DVI IN 2 (ARC)** port.
- When connected with a high-speed HDMI cable, the external audio device that supports ARC outputs optical SPDIF without additional optical audio cable and supports the SIMPLINK function.

DVI to HDMI Connection

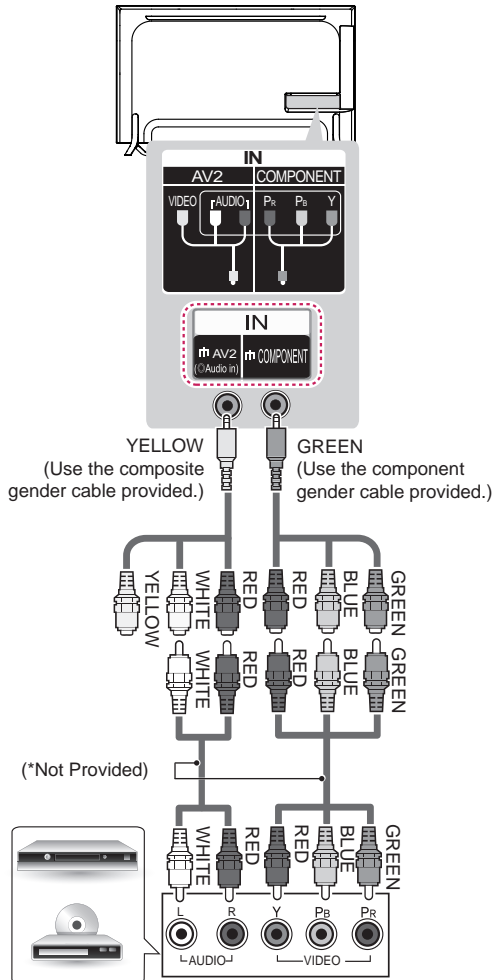


Transmits the digital video signal from an external device to the TV. Connect the external device and the TV with the DVI-HDMI cable as shown. To transmit an audio signal, connect an audio cable. Choose any HDMI input port to connect. It does not matter which port you use.

NOTE

- Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- When using the DVI/HDMI cable, single link is supported.

Component Connection



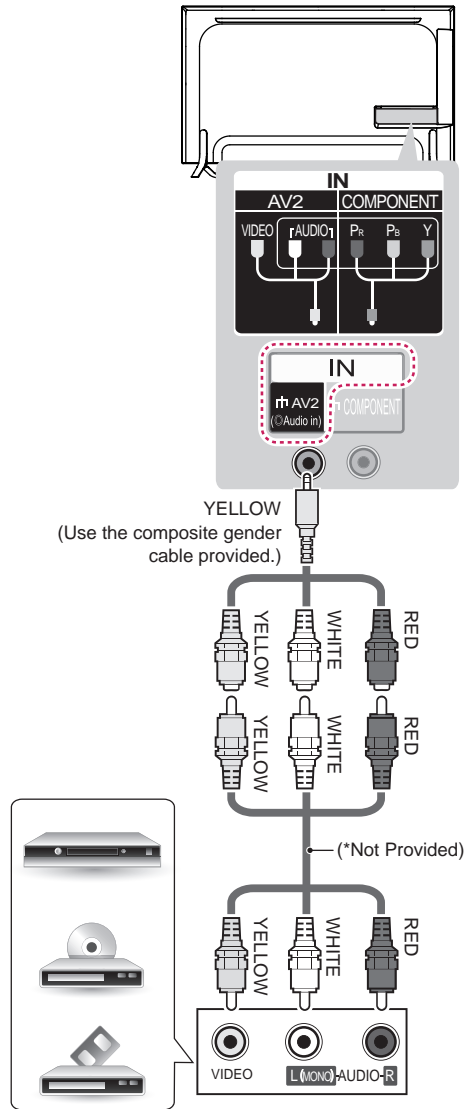
DVD / Blu-Ray / HD Cable Box

Transmits analogue video and audio signals from an external device to the TV. Connect the external device and the TV with a component cable(or component gender cable) as shown.

NOTE

- If cables are not installed correctly, it could cause this image to display in black and white or with distorted colours.

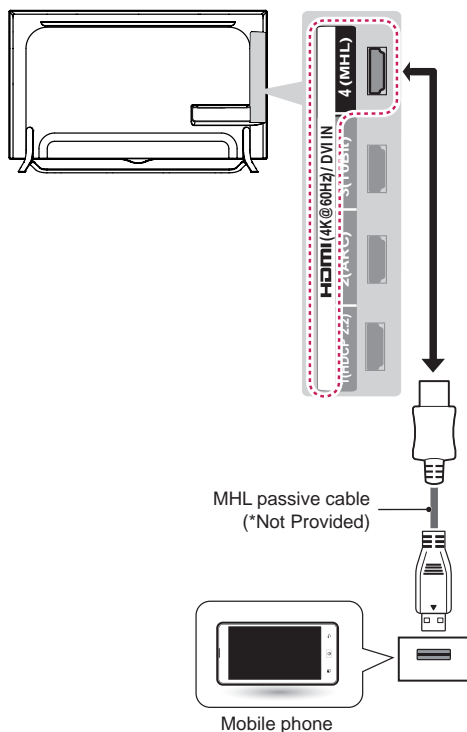
Composite Connection



VCR / DVD / Blu-Ray / HD Cable Box

Transmits analogue video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable(or composite gender cable) as shown.

MHL Connection

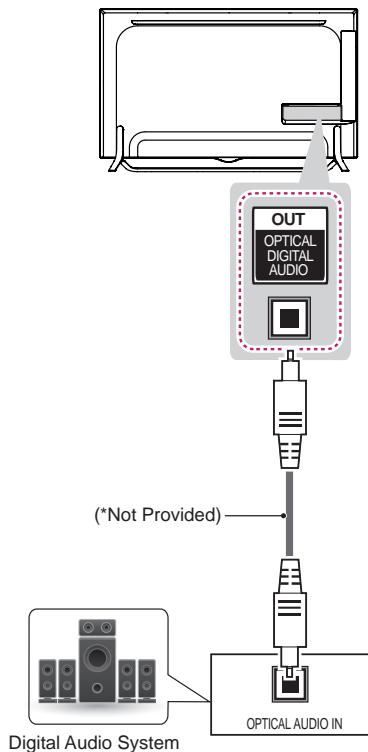


Mobile High-definition Link (MHL) is an interface for transmitting digital audiovisual signals from mobile phones to television sets.

NOTE

- Connect the mobile phone to the **HDMI(4K@60Hz)/DVI IN 4(MHL)** port to view the phone screen on the TV.
- The MHL passive cable is needed to connect the TV and a mobile phone.
- This only works for the MHL-enabled phone.
- Some applications can be operated by the remote control.
- For some mobile phones supporting MHL, you can control with the magic remote control.
- Remove the MHL passive cable from the TV when:
 - » the MHL function is disabled
 - » your mobile device is fully charged in standby mode

Audio Connection



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

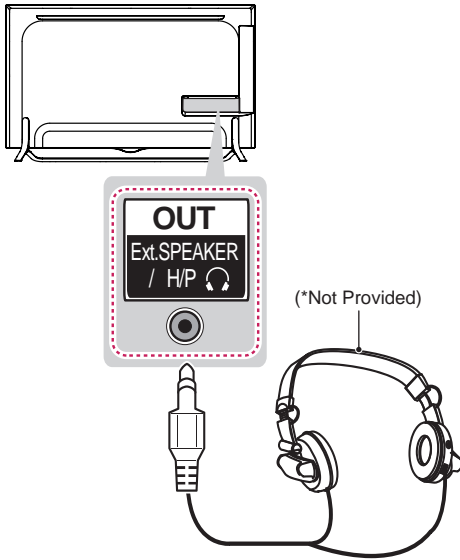
Digital optical audio Connection

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.

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.

Headphone Connection

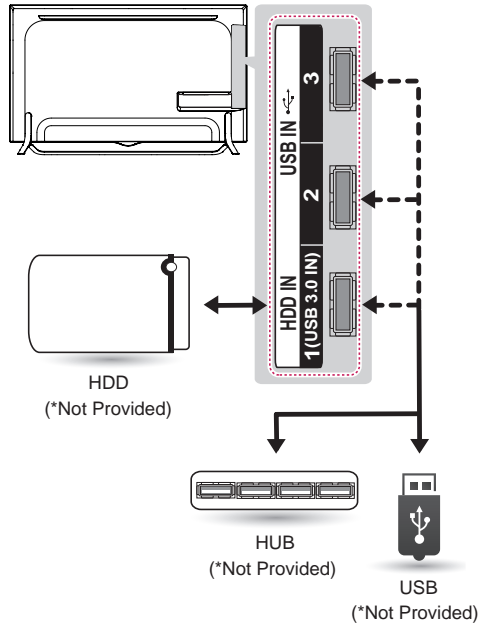


Transmits the headphone signal from the TV to an external device. Connect the external device and the TV with the headphone as shown.

NOTE

- **AUDIO** menu items are disabled when connecting a headphone.
- **OPTICAL DIGITAL AUDIO OUT** is not available when connecting a headphone.
- Headphone impedance: 16 Ω
- Max audio output of headphone : 0.627 mW to 1.334 mW
- Headphone jack size: 0.35 cm

USB Connection



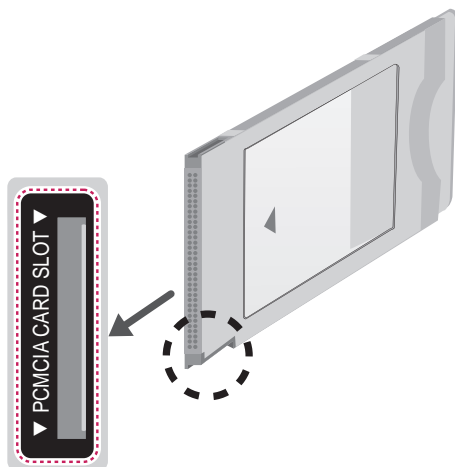
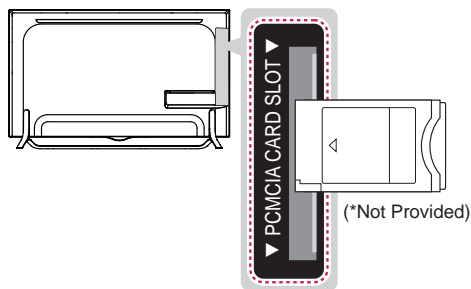
Connect a USB storage device such as a USB flash memory, external hard drive or a USB memory card reader to the TV and access the SmartShare menu to use various multimedia files.

NOTE

- Some USB Hubs may not work. If a USB device connected using a USB Hub is not detected, connect it to the USB IN port on the TV directly.
- Connect the external power source if your USB is needed.
- Connecting via USB 3.0 : Some USB device may not work if it does not meet USB 3.0 standard. In case, connect it to **USB IN 2** or **USB IN 3** port.

ENGLISH

CI module Connection

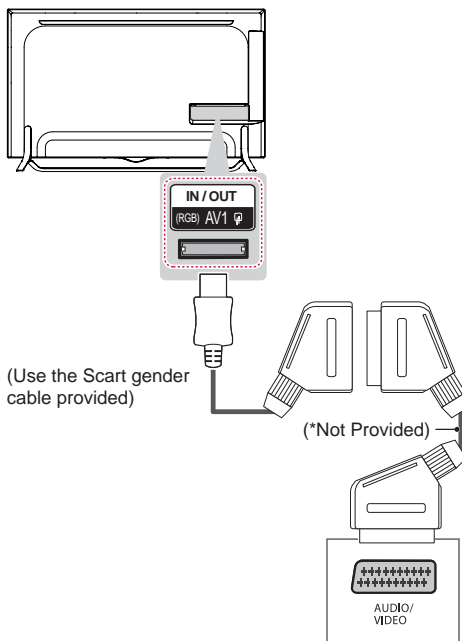


View the encrypted (pay) services in digital TV mode. This feature is not available in all countries.

NOTE

- Check if the CI module is inserted into the PCMCIA CARD SLOT in the right direction. If the module is not inserted properly, this can cause damage to the TV and the PCMCIA CARD SLOT.
- If the TV does not display any video and audio when CI+ CAM is connected, please contact to the Antenna/Cable/Satellite Service Operator.

Euro Scart Connection



(Use the Scart gender cable provided)

(*Not Provided)

Transmits the video and audio signals from an external device to the TV set. Connect the external device and the TV set with the euro scart cable (or Scart gender cable) as shown.

Output Type	AV1 (TV Out ¹)
Current input mode	
Digital TV	Digital TV
Analogue TV, AV	Analogue TV
Component	
HDMI	

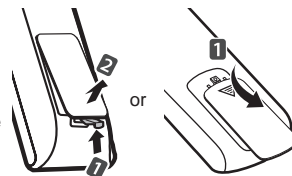
1 TV Out : Outputs Analogue TV or Digital TV signals.

NOTE

- Any Euro scart cable used must be signal shielded.
- When watching digital TV in 3D imaging mode, only 2D out signals can be output through the SCART cable. (Only 3D models)

REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.
 To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching the \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.
- The remote control will not be included for all sales market.

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

(Depending on model)

	<p>⏻ (POWER) Turns the TV on or off.</p> <p>↔ INPUT Changes the input source.</p> <p>Q. MENU Accesses the quick menus.</p> <p>SETTINGS Accesses the main menus.</p> <p>INFO Views the information of the current programme and screen.</p> <p>📖 (User Guide) Sees User Guide.</p>
	<p>GUIDE Shows programme guide.</p> <p>␣ (Space) Opens an empty space on the screen keyboard.</p> <p>Q.VIEW Returns to the previously viewed programme.</p> <p>FAV Accesses your favourite programme list.</p> <p>3D Uses for viewing 3D video.</p> <p>MUTE Mutes all sounds.</p> <p>+ / - Adjusts the volume level.</p> <p>^ / v Scrolls through the saved programmes.</p> <p>← PAGE → Moves to the previous or next screen.</p>
	<p>RECENT Shows the previous history.</p> <p>🏠 SMART Accesses the Smart Home menus.</p> <p>📺 MY APPS Shows the list of Apps.</p> <p>Navigation buttons (up/down/left/right) Scrolls through menus or options.</p> <p>OK Selects menus or options and confirms your input.</p> <p>↶ BACK Returns to the previous level.</p> <p>LIVE MENU Shows the list of Recommended, Programmes, Search and Recorded.</p> <p>EXIT Clears all on-screen display and returns to TV viewing.</p>
	<p>1 Coloured buttons These access special functions in some menus.</p> <p>(●): Red, (●): Green, (●): Yellow, (●): Blue</p>
	<p>2 TELETEXT BUTTONS These buttons are used for teletext.</p> <p>APP/* Selects the MHP TV menu source. (Only Italy) (Depending on model)</p> <p>LIVE TV Returns to LIVE TV.</p> <p>Control buttons (■, ▶, II, ◀, ▶▶) Controls the Premium contents, Time Machine^{Ready} or SmartShare menus or the SIMPLINK compatible devices (USB or SIMPLINK or Time Machine^{Ready}).</p> <p>II (FREEZE) Freezes the current frame while using the TV, AV, Component, or HDMI input source.</p> <p>REC/* Starts to record and displays record menu. (only Time Machine^{Ready} support model)</p> <p>SUBTITLE Recalls your preferred subtitle in digital mode.</p> <p>AD By pressing the AD button, audio descriptions function will be enabled.</p> <p>TV/RAD Selects Radio, TV and DTV programme.</p>

(Depending on model)

⏻ (POWER) Turns the TV on or off.

TV/RAD Selects Radio, TV and DTV programme.

INPUT Changes the input source.

SETTINGS Accesses the main menus.

Q. MENU Accesses the quick menus.

INFO Views the information of the current programme and screen.

SUBTITLE Recalls your preferred subtitle in digital mode.

GUIDE Shows programme guide.

Q.VIEW Returns to the previously viewed programme.

FAV Accesses your favourite programme list.

3D Uses for viewing 3D video.

MUTE Mutes all sounds.

+ / - Adjusts the volume level.

^ P v Scrolls through the saved programmes.

^ PAGE v Moves to the previous or next screen.

RECENT Shows the previous history.

SMART Accesses the Smart Home menus.

LIVE MENU Shows the list of Recommended, Programmes, Search and Recorded.

1 TELETEXT BUTTONS These buttons are used for teletext.

Navigation buttons (up/down/left/right) Scrolls through menus or options.

OK Selects menus or options and confirms your input.

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II (FREEZE) Freezes the current frame while using the TV, AV, Component, or HDMI input source.

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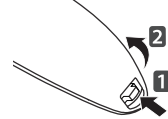
●: Red, ●●: Green, ●●●: Yellow, ●●●●: Blue

MAGIC REMOTE FUNCTIONS

When the message "Magic Remote battery is low. Change the battery." is displayed, replace the battery.

To replace batteries, open the battery cover, replace batteries (1.5 V AA) matching \oplus and \ominus ends to the label inside the compartment, and close the battery cover. Be sure to point the remote control toward the remote control sensor on the TV.

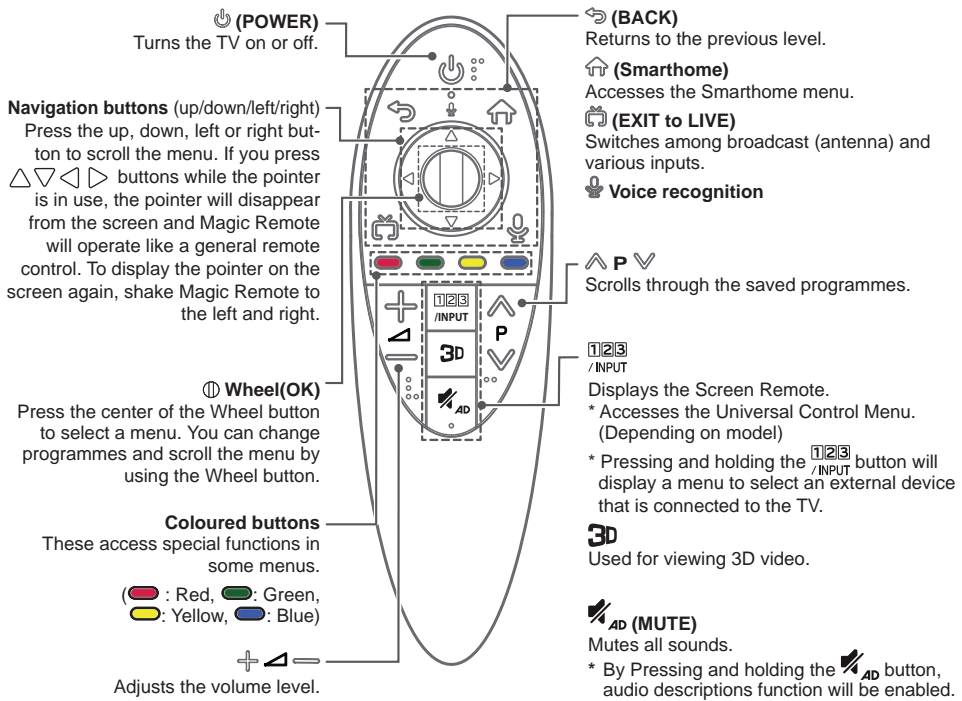
To remove the batteries, perform the installation actions in reverse.



CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- The remote control will not be included for all sales market.

(Only UB85**, UB95**, UB98**)




Voice recognition



Network connection is required to use the voice recognition function.

1. Press the Voice recognition button.
2. Speak when the voice display window appears on the left of the TV screen.
 - The voice recognition may fail when you speak too fast or too slow.
 - Use the Magic remote control no further than 10 cm from your face.
 - The recognition rate may vary depending on the user's characteristics (voice, pronunciation, intonation and speed) and the environment (noise and TV volume).

Registering Magic Remote**How to register the Magic Remote**

 <p>(Wheel)</p>	<p>To use the Magic Remote, first pair it with your TV.</p> <ol style="list-style-type: none"> 1 Put batteries into the Magic Remote and turn the TV on. 2 Point the Magic Remote at your TV and press the Wheel (OK) on the remote control. <p>* If the TV fails to register the Magic Remote, try again after turning the TV off and back on.</p>
---	--

How to de-register the Magic Remote

 <p>(BACK)</p>  <p>(Smart-home)</p>	<p>Press the (BACK) and (Smart-home) buttons at the same time, for five seconds, to unpair the Magic Remote with your TV.</p> <p>* Pressing and holding the (EXIT to LIVE) button will let you cancel and re-register Magic Remote at once.</p>
--	--

How to use Magic Remote


- Shake the Magic Remote slightly to the right and left or press **(Smart-home)** **3D** buttons to make the pointer appear on the screen.
(In some TV models, The pointer will appear when you turn the Wheel button.)
- If the pointer has not been used for a certain period of time or Magic Remote is placed on a flat surface, then the pointer will disappear.
- If the pointer is not responding smoothly, you can reset the pointer by moving it to the edge of the screen.
- The Magic Remote depletes batteries faster than a normal remote due to the additional features.

Precautions to Take when Using the Magic Remote

- Use the Magic Remote within the maximum communication distance (10 m). Using the Magic Remote 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.
- The Magic Remote 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.
- 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 may not perform as expected due to frequency interference.


USING THE USER GUIDE

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

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



! NOTE

- You can also access the User Guide by pressing  (**User Guide**) in the remote control. (Depending on model)

MAINTENANCE

Cleaning your TV

Clean your TV regularly to keep the best 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 and 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

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not push, rub, or hit the screen surface with your fingernail or a sharp object, as this may result in scratches and image distortions.
- Do not use any chemicals as this may damage the product.
- 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.

TROUBLESHOOTING


Problem	Solution
Cannot control the TV with the remote control.	<ul style="list-style-type: none"> • Check the remote control sensor on the product and try again. • Check if there is any obstacle between the product and the remote control. • Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖).
No image display and no sound is produced.	<ul style="list-style-type: none"> • Check if the product is turned on. • Check if the power cord is connected to a wall outlet. • Check if there is a problem in the wall outlet by connecting other products.
The TV turns off suddenly.	<ul style="list-style-type: none"> • Check the power control settings. The power supply may be interrupted. • Check if the Automatic Standby (Depending on model) / Sleep Timer / Timer Power Off feature is activated in the Timers settings. • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.
When connecting to the PC (HDMI/DVI), 'No signal' or 'Invalid Format' is displayed.	<ul style="list-style-type: none"> • Turn the TV off/on using the remote control. • Reconnect the HDMI cable. • Restart the PC with the TV on.

SPECIFICATIONS

(Only UB85**, UB95**)

Wireless module (LGSBW41) specification			
Wireless LAN		Bluetooth	
Standard	IEEE 802.11a/b/g/n	Standard	Bluetooth Version 3.0
Frequency Range	2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz (for Non EU)	Frequency Range	2400 to 2483.5 MHz
Output Power (Max.)	802.11a: 13 dBm 802.11b: 15 dBm 802.11g: 14 dBm 802.11n - 2.4GHz: 16 dBm 802.11n - 5GHz: 16 dBm	Output Power (Max.)	10 dBm or lower
<ul style="list-style-type: none"> • Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table. • This device should be installed and operated with minimum distance 20 cm between the device and your body. And this phrase is for the general statement for consideration of user environment. 			
			

(Only UB98**)

Wireless LAN module (LGSWF41) specification	
Standard	IEEE 802.11a/b/g/n/ac
Frequency Range	2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz (for Non EU)
Output Power (Max.)	802.11a: 14.5 dBm 802.11b: 16 dBm 802.11g: 13.5 dBm 802.11n - 2.4GHz: 14 dBm 802.11n - 5GHz: 15.5 dBm 802.11ac - 5GHz : 16 dBm
<ul style="list-style-type: none"> • Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table. • This device should be installed and operated with minimum distance 20 cm between the device and your body. And this phrase is for the general statement for consideration of user environment. 	
	
Bluetooth module (BM-LDS401) specification	
Standard	Bluetooth Version 3.0
Frequency Range	2400 to 2483.5 MHz
Output Power (Max.)	10 dBm or lower

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

MODELS		49UB85**	
		49UB850V-ZA	49UB850V-ZD
Dimensions (W x H x D)	With stand (mm)	1093 x 689 x 242	1093 x 681 x 237
	Without stand (mm)	1093 x 646 x 38.2	1093 x 646 x 38.2
Weight	With stand (kg)	18.2	18.5
	Without stand (kg)	17.5	17.5
Power requirement		AC 100-240 V ~ 50/60 Hz	AC 100-240 V ~ 50/60 Hz
Power consumption		180W	180W
MODELS		55UB85**	
		55UB850V-ZA	55UB850V-ZD
Dimensions (W x H x D)	With stand (mm)	1233 x 766 x 260	1233 x 760 x 242
	Without stand (mm)	1233 x 727 x 37.8	1233 x 727 x 37.8
Weight	With stand (kg)	21.2	21.6
	Without stand (kg)	20.5	20.5
Power requirement		AC 100-240 V ~ 50/60 Hz	AC 100-240 V ~ 50/60 Hz
Power consumption		190W	190W
MODELS		55UB95**	
		55UB950V-ZA	55UB950V-ZB
Dimensions (W x H x D)	With stand (mm)	1232 x 782 x 260	1232 x 780 x 260
	Without stand (mm)	1232 x 734 x 37.0 (Spk : 60)	1232 x 734 x 37.0 (Spk : 60)
Weight	With stand (kg)	23.8	24.2
	Without stand (kg)	23.1	23.1
Power requirement		AC 100-240 V ~ 50/60 Hz	AC 100-240 V ~ 50/60 Hz
Power consumption		210W	210W
MODELS		65UB95**	
		65UB950V-ZA	65UB950V-ZB
Dimensions (W x H x D)	With stand (mm)	1452 x 914 x 300	1452 x 914 x 300
	Without stand (mm)	1452 x 858 x 37.0 (Spk : 60)	1452 x 858 x 37.0 (Spk : 60)
Weight	With stand (kg)	34.8	34.8
	Without stand (kg)	33.7	33.7
Power requirement		AC 100-240 V ~ 50/60 Hz	AC 100-240 V ~ 50/60 Hz
Power consumption		230W	230W

MODELS		65UB98**	79UB98**
		65UB980V-ZA	79UB980V-ZA
Dimensions (W x H x D)	With stand (mm)	1560 x 884 x 264	1874 x 1075 x 331
	Without stand (mm)	1560 x 832 x 75.0	1874 x 1014 x 86.8
Weight	With stand (kg)	39.9	60.6
	Without stand (kg)	37.6	57.1
Power requirement		AC 100-240 V ~ 50/60 Hz	AC 100-240 V ~ 50/60 Hz
Power consumption		250W	290W
MODELS		84UB98**	
		84UB980V-ZA	
Dimensions (W x H x D)	With stand (mm)	2024 x 1172 x 342	
	Without stand (mm)	2024 x 1113 x 85.8	
Weight	With stand (kg)	77.7	
	Without stand (kg)	73.7	
Power requirement		AC 100-240 V ~ 50/60 Hz	
Power consumption		520W	
CI Module Size (W x H x D)		100.0 mm x 55.0 mm x 5.0 mm	
Environment condition	Operating Temperature	0 °C to 40 °C	
	Operating Humidity	Less than 80 %	
	Storage Temperature	-20 °C to 60 °C	
	Storage Humidity	Less than 85 %	
		Digital TV	Analogue TV
Television system		DVB-T/T2 DVB-C DVB-S/S2	PAL/SECAM B/G/I/D/K SECAM L/L'
Programme coverage		VHF, UHF C-Band, Ku-Band	VHF: E2 to E12, UHF : E21 to E69, CATV: S1 to S20, HYPER: S21 to S47
Maximum number of storable programmes		DVB-S/S2 : 6,000 DVB-T/T2/C & Analogue TV : 1,500	
External antenna impedance		75 Ω	





Record the model number and serial number of the TV.

Refer to the label on the back cover and quote this information to your dealer when requiring any service.

MODEL _____

SERIAL _____



Please contact LG First.

If you have any inquiries or comments, please contact LG customer information centre.

LG Customer Information Centre			
Country	LG Service ☎	Country	LG Service ☎
Österreich	0 810 144 131	Nederland	0900 543 5454
België	015 200 255	Norge	800 187 40
Luxembourg	0032 15 200255	Polska	801 54 54 54
България	07001 54 54	Portugal	808 78 54 54
Česká Rep.	810 555 810	România	031 228 3542
Danmark	8088 5758	Slovensko	0850 111 154
Suomi	0800 0 54 54	España	902 500 234
France	3220 diffes LG ou tapez 54	Sverige	0770 54 54 54
Deutschland	01806 11 54 11 (0,20€ pro Anruf aus dem Festnetz der DTAG; Mobifunk: max. 0,60€ pro Anruf)	Schweiz	0848 543 543
Ελλάδα	801 11 200 900, 210 4800 564	United Kingdom	0844 847 5454
Magyarország	06 40 54 54 54	Россия	8 800 200 7676
Éire	0818 27 6955	Eesti	800 9990
Italia	199600099	Украина	0 800 303 000
Беларусь	8 820 0071 1111	Казахстан	8 8000 805 805, 2255(GSM)
Latvija	80200201	Ўзбекистан	8 800 120 2222
Lietuva	880008081	Кыргызстан	8 0000 710 005

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