LG
Life's Good

OWNER'S MANUAL
LED TV

* LG LED TV applies LCD screen with LED backlights.

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

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Brand name:LG
FCC ID:BEJLG70LY390C

MFL68027111

P/NO : MFL68027111 (1312-REV00)
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www.lg.com

ENGLISH

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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.

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LICENSES

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SAFETY INSTRUCTIONS

Please read these safety precautions carefully before using the product.

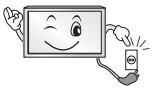
WARNING

- 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.

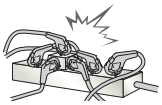
- Ensure the power cord does not come into contact with hot objects such as a heater. This may cause a fire or an electric shock hazard.

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

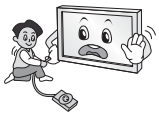
- Bend antenna cable between inside and outside building to prevent rain from flowing in.
  This may cause water damaged inside the Product and could give an electric shock.

- 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 causeit to fall.

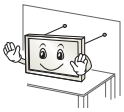
CAUTION

- 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.

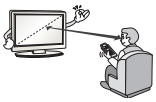
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.



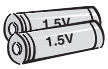
- If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.
- Only use the attachments / accessories specified by the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

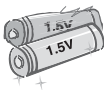
- We recommend that you maintain a distance of at least 2 to 7 times the diagonal screen size when watching TV.
  If you watch TV for a long period of time, this may cause blurred vision.



- 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.

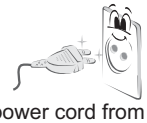
- Please follow the installation instructions below to prevent the product from overheating.
  - The distance between the product and the wall should be more than 10 cm.
  - Do not install the product in a place with no ventilation (e.g., on a bookshelf or in a cupboard).
  - Do not install the product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

  Otherwise, this may result in fire.

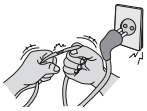
- Take care not to touch the ventilation openings when watching the TV for long periods as the ventilation openings may become hot. This does not affect the operation or performance of the product.

- 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.

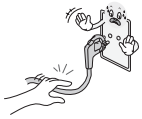


- Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it, as it may cause damage to screen.

- 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.

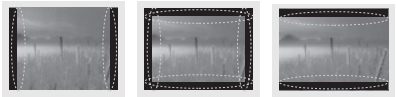
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate 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 tempera-ture 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 depend-ing 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 5 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 contens 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 easy to be 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 time after it was shipped from the factory, initialization of the TV may take up to one minute.

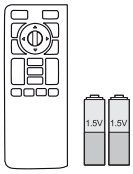
ASSEMBLING AND PREPARING

Unpacking

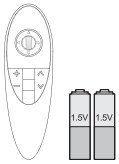
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.

CAUTION

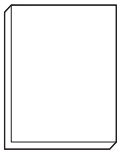
- Do not use any unapproved items to ensure the safety and product life span.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- Some models have a thin film attached on to the screen and this must not be removed.



QWERTY Remote Control, Batteries (AA)
(Only GB78**)
(See p.34, 35)

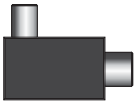


Magic Remote, Batteries (AA)
(Only GB58**, GB63**, GB65**, GB67**, GB72**)
(See p.37)



Owner's Manual

Tag on
(Depending on model)

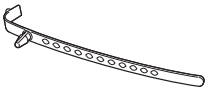


Antenna Isolator
1EA

Cinema 3D Glasses
The number of 3D glasses may differ depending on the model or country.
(Only GB65**, GB67**, GB72**, GB78**)

Power Cord
(Depending on model)

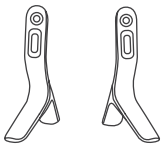
Wall Mount Spacers
2EA
(Only 42GB58**, 42GB63**, 42GB65**)
(See p.24)



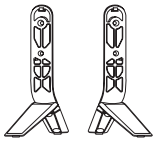
Cable Holder
(Depending on model)
(See p.25)

Cable Managements
2EA
(Only GB58**, GB63**, GB65**, GB67**, GB69**, GB72**)
(See p.25)

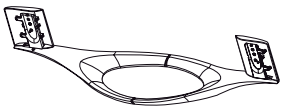
Stand Screws
4EA, M4 x L14
(See p.19, 20)



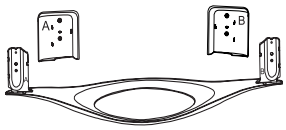
Stand Base
(Only GB58**, 42/47/55GB63**, GB65**)
(See p.19)



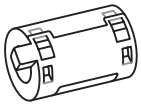
Stand Assy
(Stand Body/Stand Base)
(Only 65GB63**, GB67**, GB72**)
(See p.19)



Stand Base
(Only 47/55GB78**)
(See p.21)



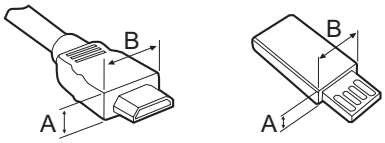
Stand Base/Stand Cover
(Only 60GB78**)
(See p.21)



Ferrite core
(Only 70GB72**)
(See p.15)

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.

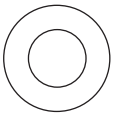


*A ≤ 10 mm

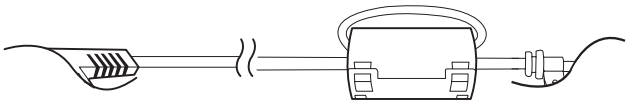
*B ≤ 18 mm

How to use the ferrite core (Only 70GB72**)

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



[Cross Section of Ferrite Core]



[to the TV]

[to a wall plug]

ENGLISH

Separate purchase

Separate purchase items can be changed or modified for quality improvement without any notification.
Contact your dealer to buy these items.
These devices only work with certain models.

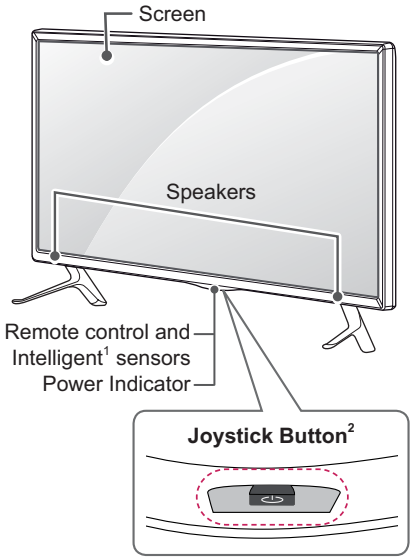
AG-F*DP** Dual Play Glasses	**AG-F**** Cinema 3D Glasses	**AN-GR500** QWERTY Remote Control
Tag on		

Compatibility	GB58**, GB63**	GB65**, GB67**, GB72**, GB78**
AG-F*DP** Dual Play Glasses		•
AG-F** Cinema 3D Glasses		•
Tag on	•	•
AN-GR500 QWERTY Remote Control	•	•

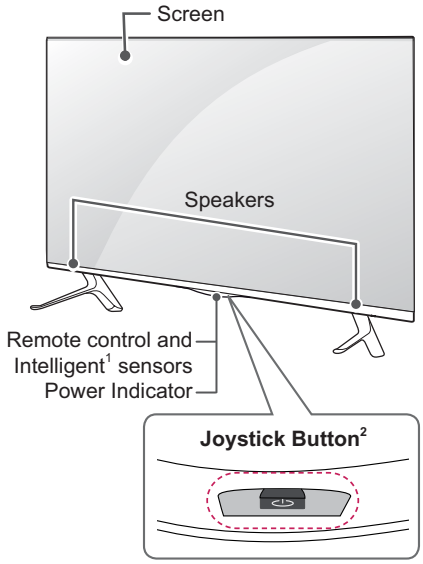
The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.

Parts and buttons

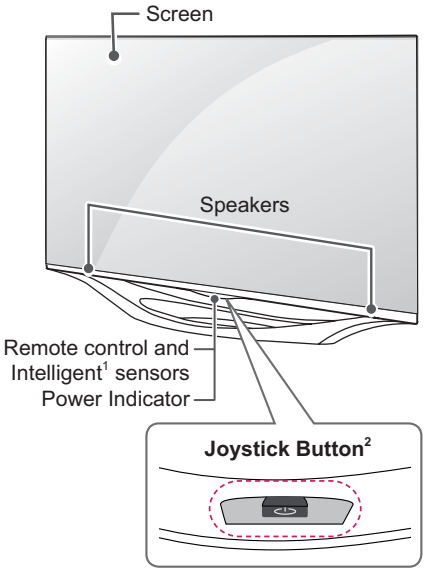
A type : GB58**, GB63**, GB65**



B type : GB67**, GB72**



C type : GB78**



1 Intelligent sensor - Adjusts the image quality and brightness based on the surrounding environment.

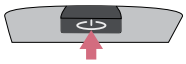
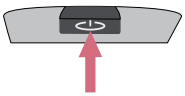
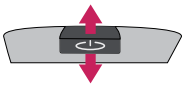
2 Joystick Button - This button is located below the TV screen.

ENGLISH

Using the Joystick button

You can simply operate the TV functions by pressing to turn On/Off or sliding your finger over joystick button moving up, down, left or right.

Basic Functions

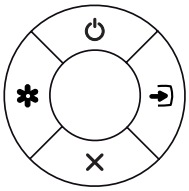
	Power On	When the TV is turned off, place your finger on the joystick button and press it once and release it.
	Power Off	When the TV is turned on, place your finger on the joystick button and press it once for a few seconds and release it.
	Volume Control	If you place your finger over the joystick button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

NOTE

- When your finger is over the joystick button and you are sliding finger forward/back, left or right, be careful not to press down to hard on joystick. If you press down hard on joystick button first then the adjustment of volume level and programme scroll action will not operate.

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 up, down, left or right.

	⏻	TV Off	Turns the power off.
	✽	Settings	Accesses the main menu.
	✕	Close	Closes Clears on-screen displays and returns to TV viewing.
	➔	Inputs	Changes the input source.

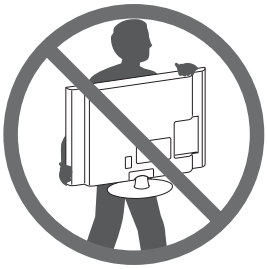
Lifting and moving the TV

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

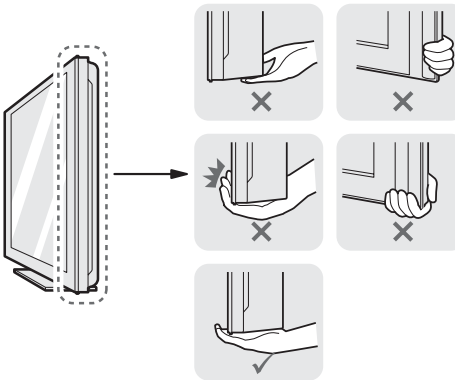
CAUTION

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

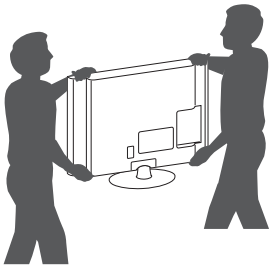
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



- 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.
- When handling the TV, be careful not to damage the protruding joystick button.

ENGLISH

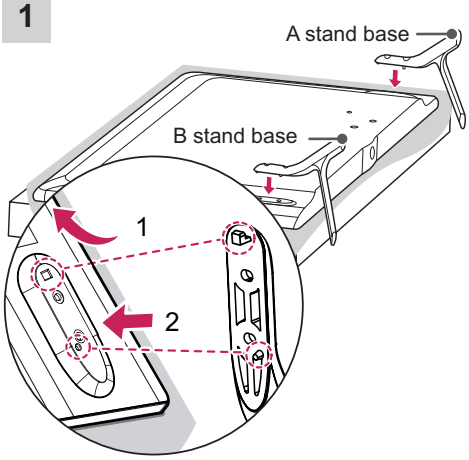
Setting up the TV

Image shown may differ from your TV.

Attaching the stand

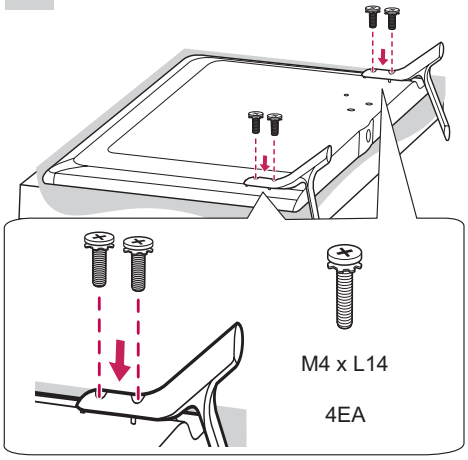
GB58**, 42/47/55GB63**, GB65**

1



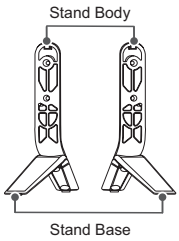
1 Attach the stand to the TV using the upper mounting hole on the back of the TV.
2 Attach the stand to the TV using the lower connection on the back of the TV.

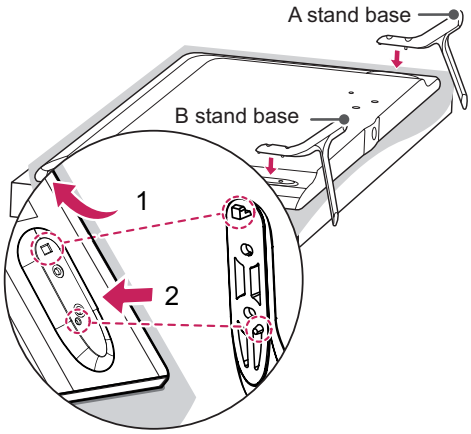
2



65GB63**, GB67**, GB72**

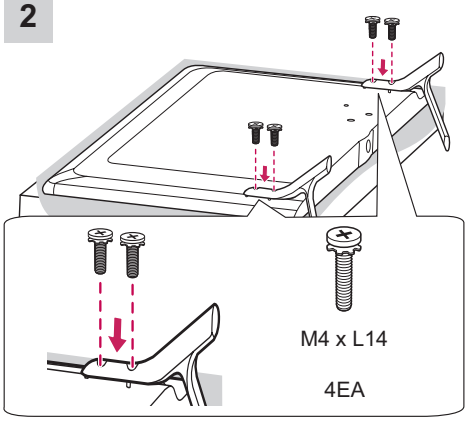
1





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.

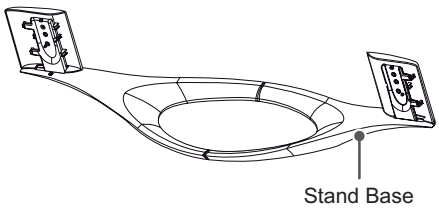
2



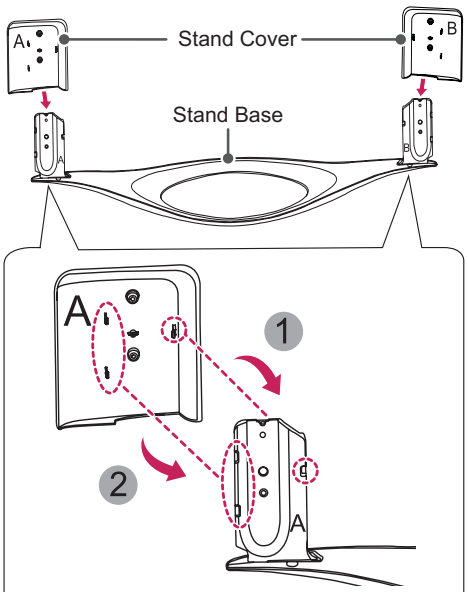
GB78**

1

(Only 47/55GB78**)

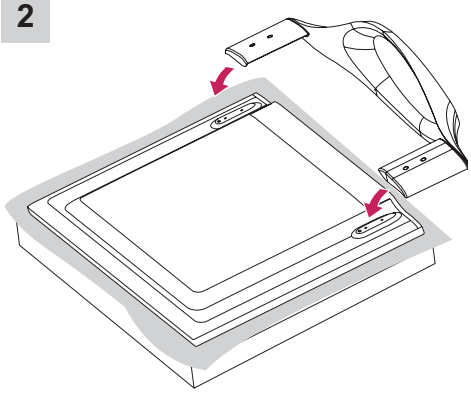


(Only 60GB78**)

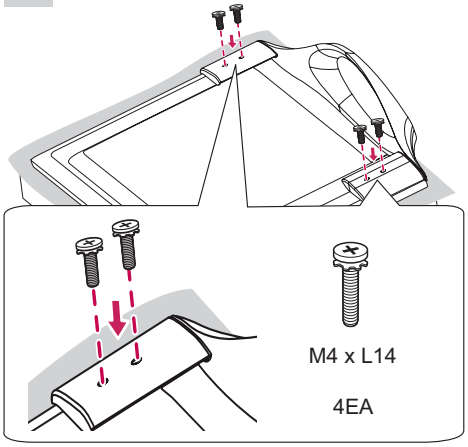


* Please attach the Stand and Stand Cover.

2



3



ENGLISH

CAUTION

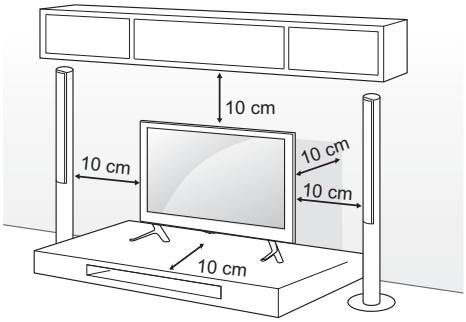
- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.
- Make sure that the screws are fastened completely. (If they are not fastened securely enough, the TV may tilt forward after being installed.)
  Do not use 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

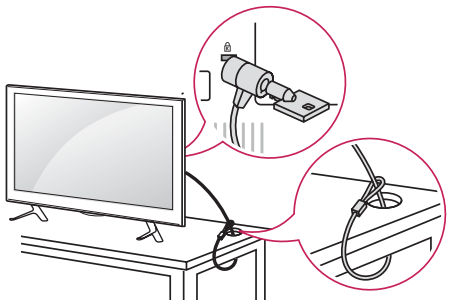
- Do not place the TV near or on sources of heat, as this may result in fire or other damage.

Using the Kensington security system

(This feature is not available for all models.)
- Image shown may differ from your TV.

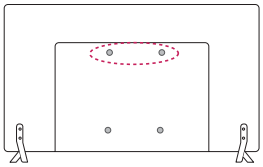
The Kensington security system connector is located at the rear of the TV. For more information of installation and using, refer to the manual provided with the Kensington security system or visit *http://www.kensington.com*.

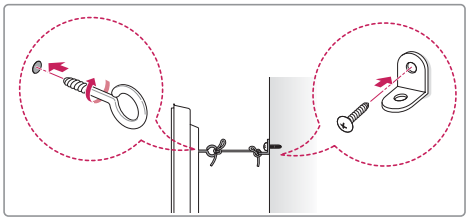
Connect the Kensington security system cable between the TV and a table.



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

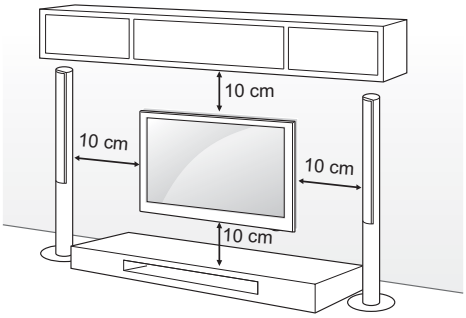
- Make sure that children do not climb on or hang on the TV.

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.

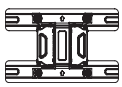
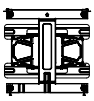
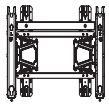
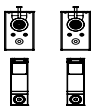


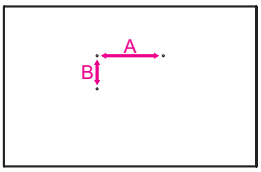
Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Separate purchase (Wall Mounting Bracket)

Model	42/47/50/55GB58** 42/47/55GB63** 42/47/55GB65**	65GB63** 60GB65** 47/55GB67** 65GB72** 47/55/60GB78**
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	70GB72**	
VESA (A x B)	600 x 400	
Standard screw	M8	
Number of screws	4	
Wall mount bracket	LSW640B	

ENGLISH

Wall mount bracket			
LSW240B	LSW440B	LSW640B	MSW240
			

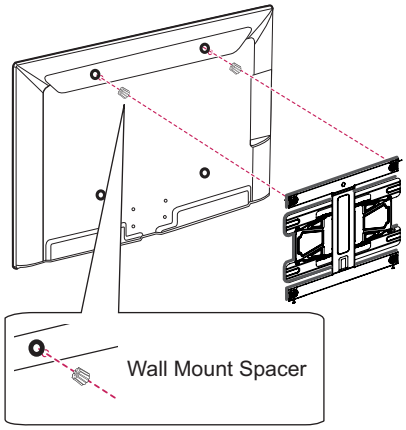


CAUTION

- 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 authorised 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 manufacturer's 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.
- When attaching a wall mounting bracket to the TV, insert the wall mount spacers into the TV wall mount holes to adjust the vertical angle of the TV. (Only 42GB58**, 42GB63**, 42GB65**)

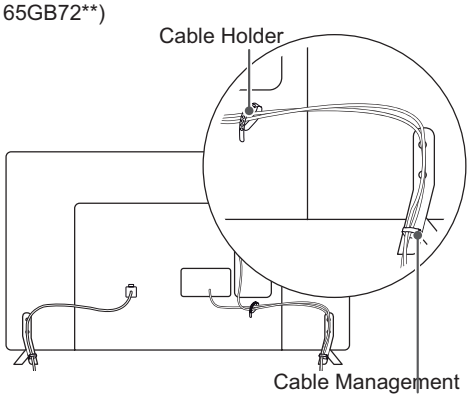


Tidying cables

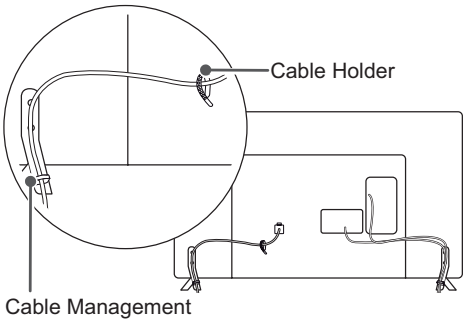
Image shown may differ from your TV.

1 Gather and bind the cables with the cable holder. (Depending on model)
2 Fix the Cable Management firmly to the TV.

(Only GB58**, GB63** , GB65**, GB67**, 65GB72**)

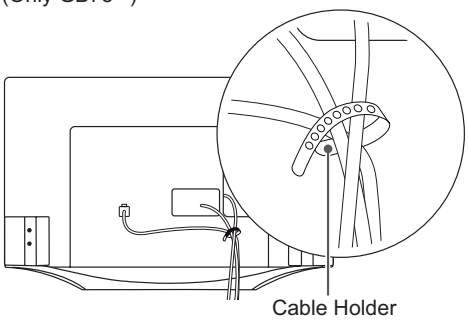


(Only 70LB72**)



1 Gather and bind the cables with the Cable Holder.

(Only GB78**)



CAUTION

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

ENGLISH

MAKING CONNECTIONS

This section on **MAKING CONNECTIONS** mainly uses diagrams for the 55GB65** models.

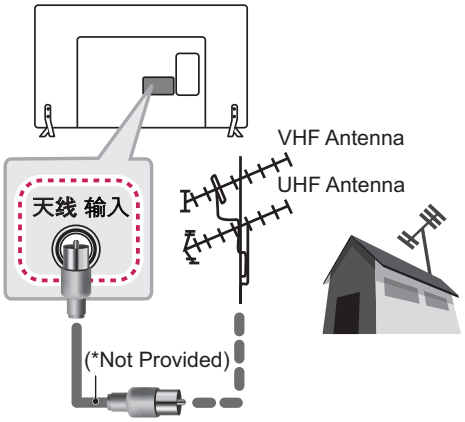
Connect various external devices to the TV and switch input modes to select an external device. For more information of external device's connection, refer to the manual provided with each device.
Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

NOTE

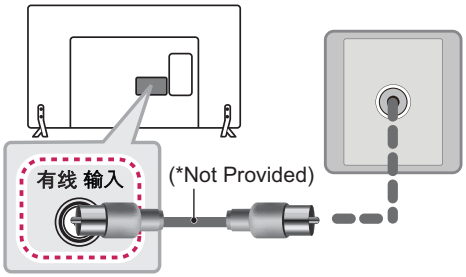
- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- If you record a TV programme on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information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

Antenna connection

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



or



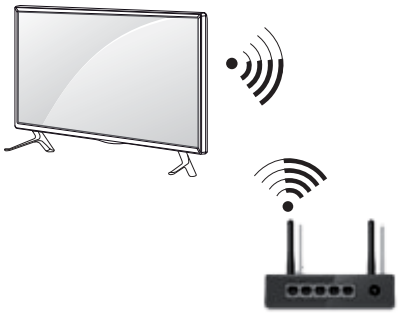
NOTE

- 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.
- This set can meet insulation requirement between PG and RF network system so you can connect RF cable directly.

Network connection

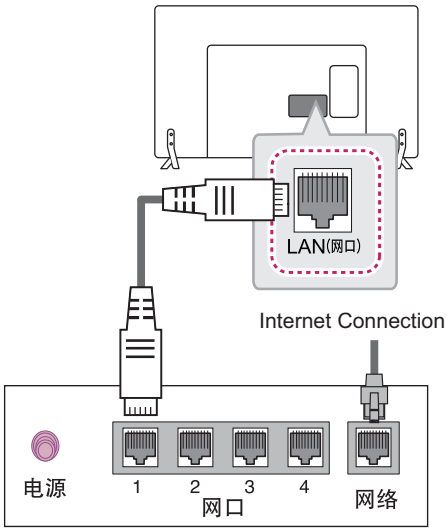
Connect the TV to a router with a LAN cable. Or connect with Wi-Fi by accessing Network Setup in the initial Setup Wizard. For seamless internet streaming, LG recommends a stable 4 Mbps broadband speed and 1.5 Mbps as a minimum.

Wireless network connection



Wireless Router

Wired network connection



Wired Router

NOTE

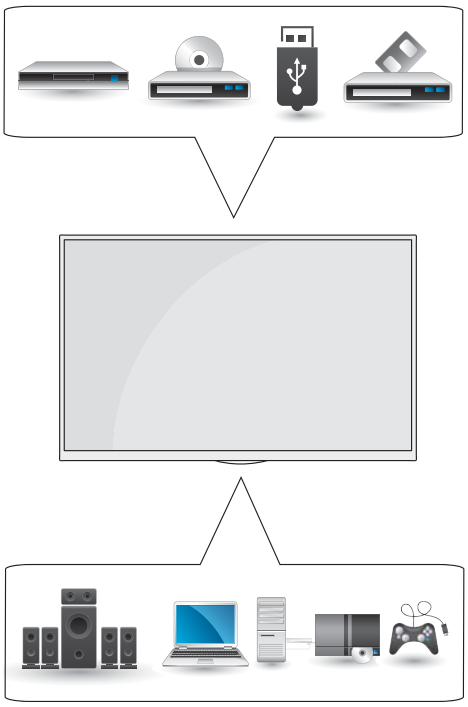
- When TV is connected at the same time both by wired and wireless modes, TV default connection will be Wired.

Connection overview

Connect various external devices to the ports on the TV back panel.

1 Find an external device you want to connect to your TV as shown.
2 Check the connection type of the external device.
3 Go to the appropriate illustration and check the connection details.

HD STB / HD Cable Box / DVD / USB / VCR

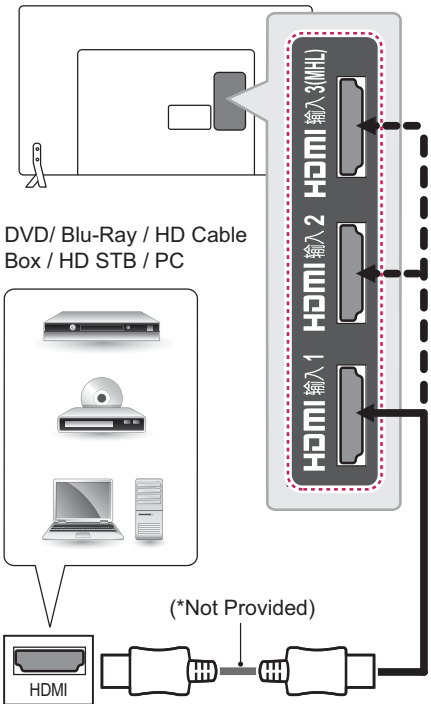


Speaker / PC / Game devices

ENGLISH

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.

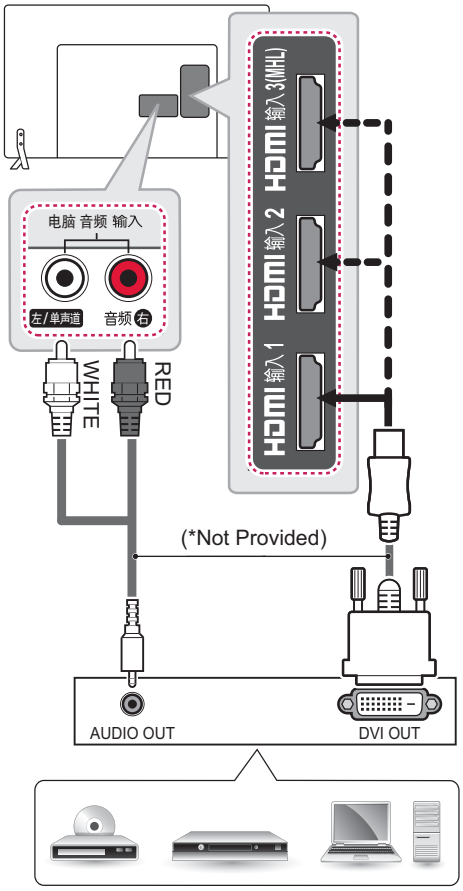


NOTE

- 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, 32 KHz/44.1 KHz/48 KHz/88 KHz/96 KHz/176 KHz/192 KHz).

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.



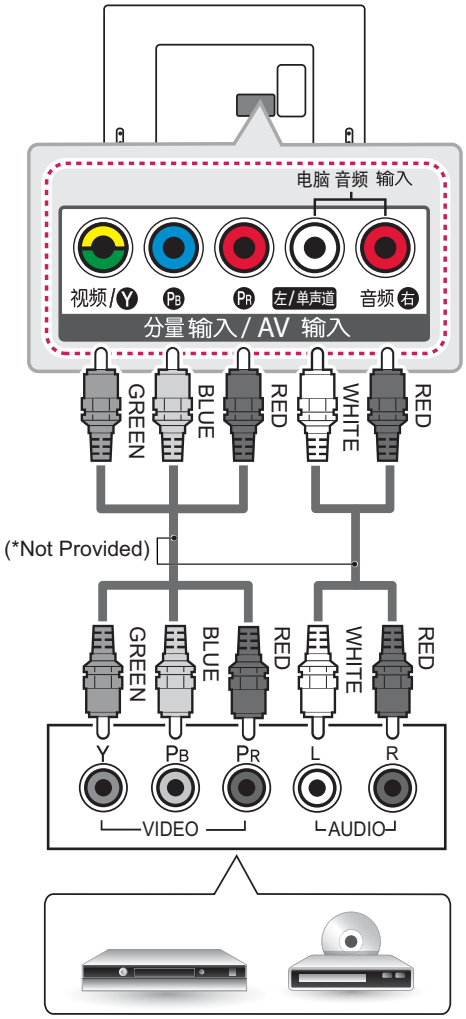
DVD / Blu-Ray / HD Cable Box / PC / HD STB

NOTE

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

Component connection

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.



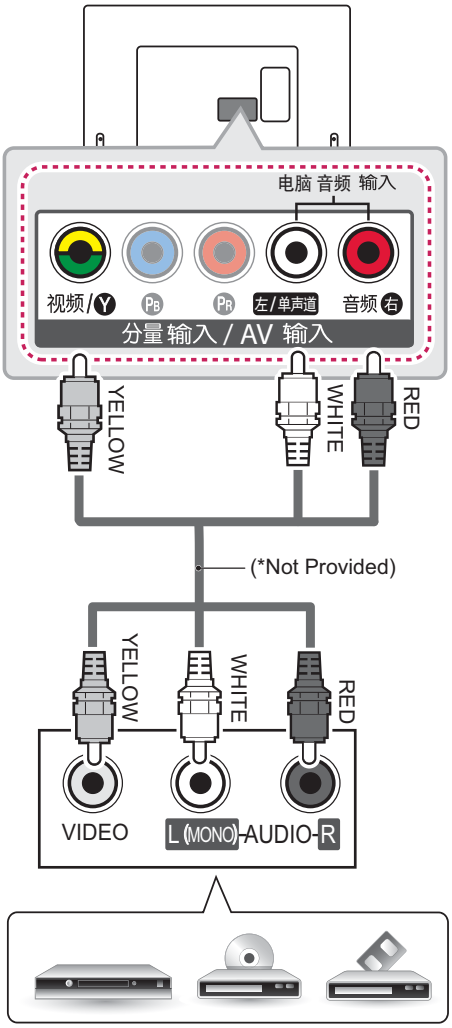
DVD / Blu-Ray / HD Cable Box

NOTE

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

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.

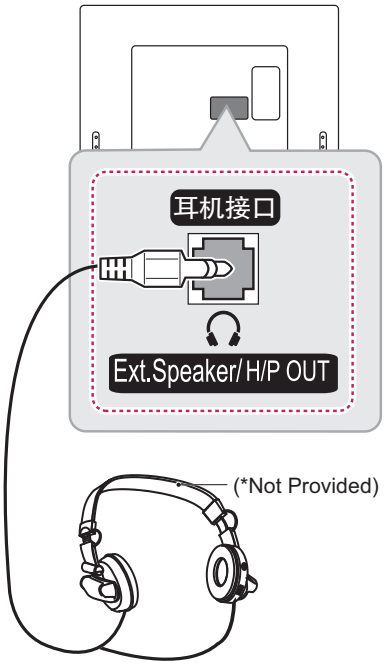


DVD / Blu-Ray / HD Cable Box / VCR

ENGLISH

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

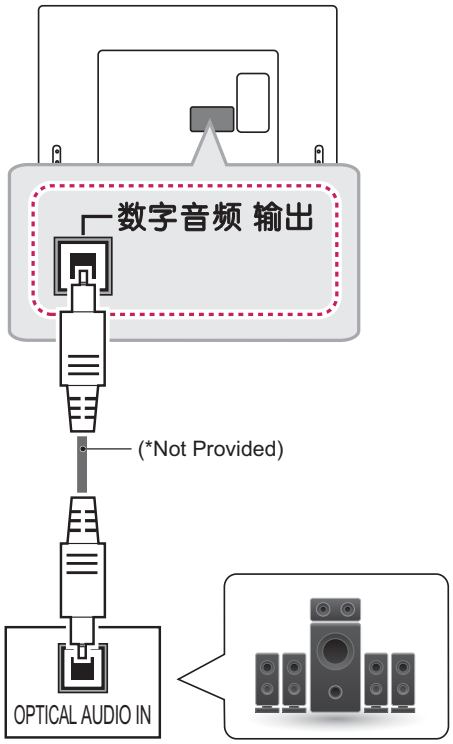
- AUDIO menu items are disabled when connecting a headphone.
- Optical Digital Audio Out is not available when connecting a headphone.
- Headphone impedance: 16 Ω
- Max audio output of headphone: 0.627 mW to 1.334 mW
- Headphone jack size: 0.35 cm

Audio connection

You may 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.



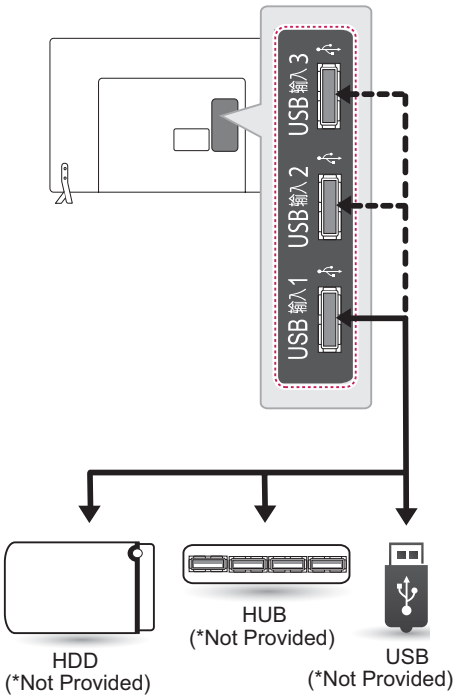
Digital Audio System

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.

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.

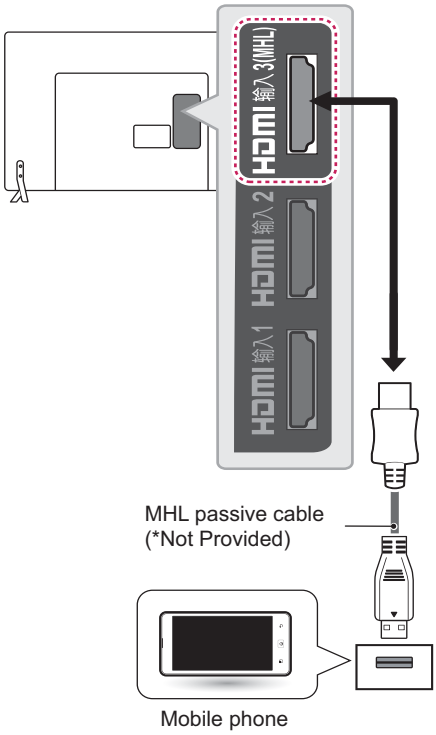


NOTE

- Some USB Hubs may not work. If a USB device connected using a USB Hub is not detected, connect it to the USB port on the TV directly.
- Connect the external power source if your USB is needed.

MHL connection

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



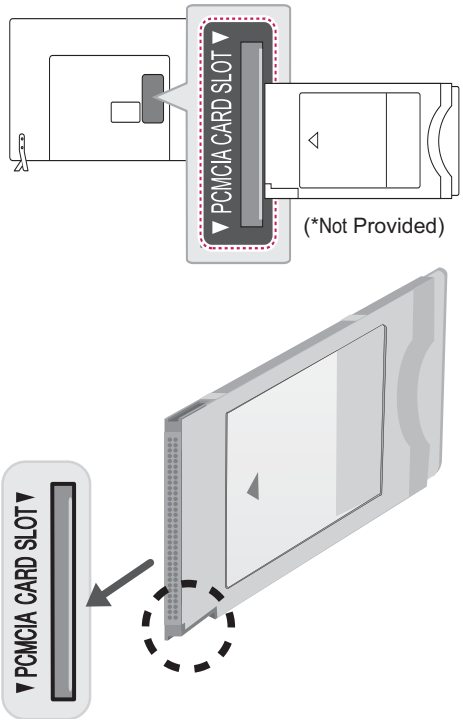
NOTE

- Connect the mobile phone to the HDMI 输入 3 (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.
- Remove the MHL passive cable from the TV when:
  - » the MHL function is disabled
  - » your mobile device is fully charged in standby mode

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.

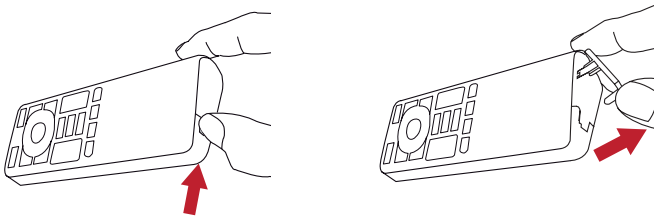
REMOTE CONTROL FUNCTIONS

(Only GB78**)

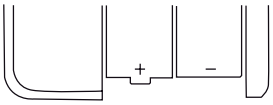
Inserting batteries

When you use the remote control for the first time, you should insert the batteries(1.5 V AA) to remote control.

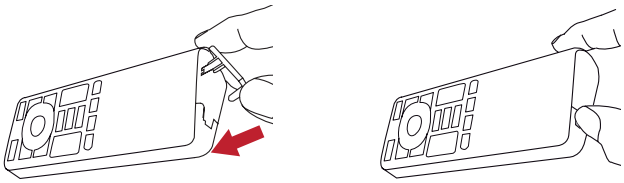
1 Open the battery cover as shown below.



2 Insert batteries into remote control observing correct polarity.



3 Close the battery cover as shown below.

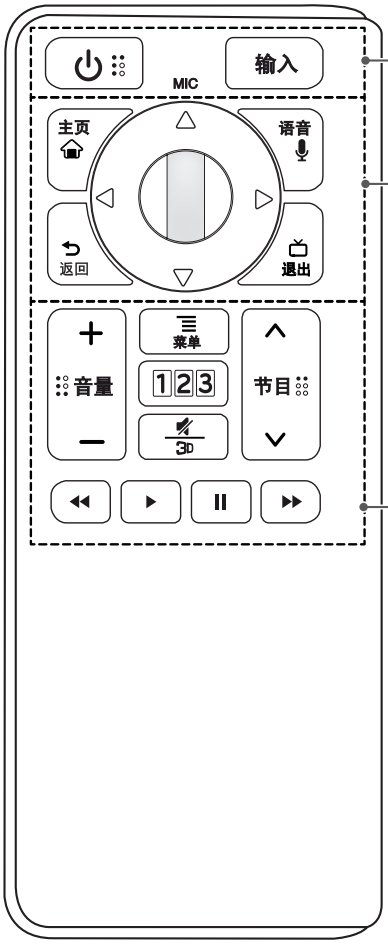


CAUTION

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

ENGLISH

QWERTY Remote Control - Front



⏻ **(POWER)** Turns the TV on or off.
输入 Selects input list.

主页 Access the Smarthome screen.
语音 Searching by voice.
返回 Move to previous or superior step.
退出 Closes a menu.
Navigation buttons (△ 向上, ▽ 向下, ◁ 向左, ▷ 向右)
Press the up, down, left or right button to scroll the menu.If you press △, ▽, ◁ or ▷ buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.
滚轮(确定) Select item by pushing key.
Wheel Spin the wheel up/down to scroll up/down.

+ 音量 − Adjusts the volume level.
菜单 Call option pop-up for activating app.
1 2 3 Displays the Screen Remote.
(MUTE) Mutes all sounds.
3D Change between 2D and 3D mode.(Press and Hold)
∧ 节目 ∨ Change TV programmes.
Trick play keys(◀◀, ▶, ❚❚, ▶▶) Rewind, play, pause, fast forward.

QWERTY Remote Control - Back

⌫
Delete text.

Enter
Finish text input.

Ⓐ
In the game state, this key will be achieved with the A key game on the same keyboard device operation.

.com
Press this button simultaneously with the Fn key, and then enter the URL, that is entered automatically .com.

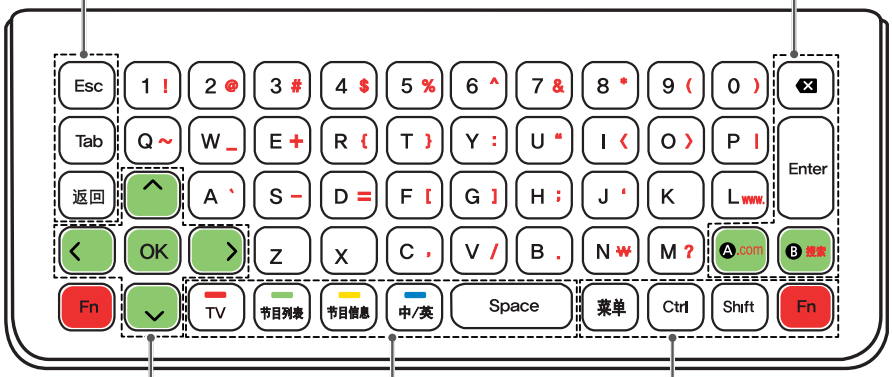
Ⓑ
In the game state, this key will be achieved with the B key games on the same keyboard device operation.

搜索
Press the key with the Fn key simultaneously, that is to run the search.

Esc
Cancel state or command.

Tab
Move focus to the next step.

返回
Move to previous or superior step.



Navigation Buttons
(∧ 向上, ∨ 向下, < 向左, > 向右)
Scrolls through menus or options.
Selects item by pushing key.

TV
Activate TV player app.

节目列表
Activate/Deactivate 节目列表.

节目信息
Show programme information.
(Only on Live TV)

中/英
Enter 中/英 menu.

Space
Enter a space.

菜单
Composition key combination with other keys together.

Ctrl
Combine key with other keys.

Shift
Combine key for upper letter.

Fn
Combine key with other keys.

ENGLISH

Voice recognition (Depending on model)

voice search function can support web searching.

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 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 the remote control

The Remote Control operates by pairing with your TV. When turning the TV on for the first time, please pair the remote to the TV.

How to register the remote control

语音	Press the 语音 button to pair the remote control.

How to deregister the Magic Remote

返回 主页	Press the 返回 and 主页 buttons at the same time, for five seconds, to unpair the QWERTY Remote with your TV.

How to re-register the remote control after registration failure

返回	Reset the remote control by pressing and holding the 返回 button for 3 seconds. (Once the reset is complete, the light on the Pointer blinks.) Then repeat the above procedure to register the remote control.

How to use remote control

- Shake the Magic Remote slightly to the right and left or press , 123 buttons to make the pointer appear on the screen.
- 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.

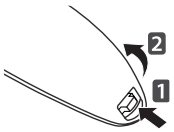
Precautions to take when using the remote control

- Use the 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 Remote Control.
- The Remote Control may be damaged or may malfunction if it is dropped or receives a heavy impact.
- 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 remote control may not perform as expected due to frequency interference.
- The TV only supports the included LG QWERTY remote control. It may be compatible with a keyboard that meets HID specifications.
- The cursor automatically stays still when the QWERTY keyboard is facing up in order to prevent any wobbling cursor.
- Magic remote and QWERTY remote can not be used at the same time. If you want to change the remote control, please re-register the new remote control.

MAGIC REMOTE FUNCTIONS

This item is not included for all models.

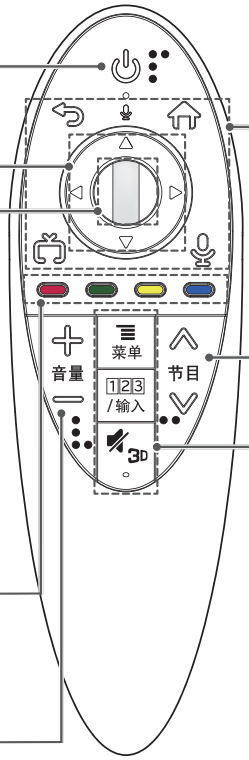
When the message “Magic Remote battery is low. Change the battery.” is displayed, replace the battery. To replace batteries, open the battery cover, replace batteries (1.5 V AA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Be sure to point the remote control 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.
- In Analogue TV and some countries, some remote control buttons may not work.

(Only GB58**, GB63**, GB65**, GB67**, GB72**)



(POWER)
Turns the TV on or off.

导航按钮 (△ 向上, ▽ 向下, ◁ 向左, ▷ 向右)
Press the up, down, left or right button to scroll the menu.If you press △, ▽, ◁ or ▷ buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.

Wheel(OK)
Press the center of the Wheel button to select a menu. You can change programmes or channels and scroll the menu by using the Wheel button.

Coloured buttons
These access special functions in some menus.
(: Red, : Green, : Yellow, : Blue)

音量
Adjusts the volume level.

(BACK)
Returns to the previous level.

(Smarthome)
Accesses the Smarthome menu.

(EXIT to LIVE)
Switches among broadcast (antenna) and various inputs.

(Voice)
(Depending on model)

节目
Scrolls through the saved programmes or channels.

菜单
Call option pop-up for activating app.

123 / 输入
Displays the Screen Remote.
* Accesses the Universal Control Menu. (Depending on model)
* Pressing and holding the 123 / 输入 button will display a menu to select an external device that is connected to the TV.

(MUTE)
Mutes all sounds.

3D
By pressing and holding the button, Used for viewing 3D video. (Depending on model)

ENGLISH

Voice recognition (Depending on model)

voice search function can support web searching.

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 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

(Voice)	To use the Magic Remote, first pair it with your TV. 1 Put batteries into the Magic Remote and turn the TV on. 2 Point the Magic Remote at your TV and press the **(Voice)** on the remote control. » If the TV fails to register the Magic Remote, try again after turning the TV off and back on.

How to deregister the Magic Remote

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

How to use Magic Remote

	• Shake the Magic Remote slightly to the right and left or press , buttons to make the pointer appear on the screen. » The pointer will appear when you turn the Wheel button. (Depending on model) • 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 remote control within the specified range (within 10 m). You may experience communication failures when using the device outside the coverage area or if there are obstacles within the coverage area.
- You may experience communication failures depending on the accessories. Devices such as a microwave oven and wireless LAN operate in the same frequency band (2.4 GHz) as the Magic Remote. This may cause communication failures.
- The Magic Remote may not work properly if a wireless router (AP) is within 1 meter of the TV. Your wireless router should be more than 1 m away from the TV.
- Do not disassemble or heat the battery.
- Do not drop the battery. Avoid avoid extreme shocks to the battery.
- Inserting the battery the wrong way may result in explosion.
- Magic remote and Qwerty remote can not be used at the same time. If you want to change the remote control, please re-register the new remote control.

USING (BASIC)

Turning the TV on for the first time

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

1 Connect the power cord to a power outlet.
The Power indicator turns on and the TV switches to Standby mode.
2 In Standby mode, press the power button on the remote control to turn the TV on.
The Initial setting screen appears when you turn the TV on for the first time.

* If the TV is turned on for the first time after it was shipped from the factory, initialization of the TV may take up to one minute.

NOTE

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

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

使用您的动感应遥控器	Pairing the remote control
⇩	
环境选择	Selecting 家庭 or 商场. and please read the relevant 法律声明.
⇩	
连接互联网	Connecting to the Internet to 以太网线 or 无线.
⇩	
设置电视服务	Select the video input you use to connect your TV service to your TV.
⇩	
设置完成	The initial settings are completed.

4 When the initial settings are completed, select 完成.

5 To turn the TV off, press the ⏻ **(POWER)** button on the remote control.

Setting the Mode

1 Press 主页 to access the Smarthome menu.

2 Go to 应用 > 设置 > 选项 > 环境选择.

3 Select 商场 for in-store display. For use in-home, select 家庭.

NOTE

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

NOTE

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

ENGLISH

Setting up programmes

Storing programmes

To store programmes automatically,

1 Press 主页 to access the Smarthome menu.
2 Go to 应用 > 设置 > 节目 > 自动搜台.
3 Select 开始 to start automatic tuning. The TV scans and saves available programmes automatically.
4 When you return to the previous menu, press 返回.

To store programmes manually,

1 Press 主页 to access the Smarthome menu.
2 Go to 应用 > 设置 > 节目 > 手动搜台.
3 Scroll through the programme types, and then add or delete programmes.
4 When you return to the previous menu, press 返回.

To show programme list,

1 Press 主页 to access the Smarthome menu.
2 Go to 应用 > 设置 > 节目 > 节目列表.
3 Show programme list.

NOTE

- You can store up to 1000 programmes. The number of programmes that you can store differs depending on the broadcasting signal environment.

To use Quick Setting function

(The configurable items differ depending on model.)

You can set the menus that are related with programme and frequent functions.

1 Press 菜单 to access the Quick setting.

画面比率	Depending on the input signal, you can select the screen size that you want.
画面模式	Select the picture mode that is best suited to your viewing environment, preferences or video type.
声音模式	Select the sound mode that is best suited to your viewing environment, preferences or video type.
睡眠设置	Sets the TV to turn off at a specified time.
音频语言/音频	You can select various languages based on the Multi Audio signals from a broadcasting station. The Main Language will be selected if the broadcast does not support multiple languages.

Accessing Home Menu

Press the 主页 to access the Smarthome menu.

NOTE

- Pressing and holding the 主页 button will display a Recent menu to the TV.
- Depending on the version of the software, icon position can be changed.
- If the TV is turned on for the first time after software update, initialization of the TV may take up to one minute.

ENGLISH

Checking current programme info

Press ⏀ 滚轮(确定) and select 详细信息 to view the information of the current programme while you are watching. The following information appears on the screen.

Icon		Description
Multilingual		The programme contains two or more audio language services. You can change the audio language on settings.
MPEG	MPEG	This program is a video compression coding technology.
Caption	CC	The programme contains one or more language caption services. You can select a closed caption you want on settings.
Aspect ratio	4:3 14:9 16:9	The original aspect ratio of the video is 4:3. The original aspect ratio of the video is 14:9. The original aspect ratio of the video is 16:9 (wide).
Resolution	480i 480p 720p 1080i 1080p	The video resolution is 720 x 480i. The video resolution is 720 x 480p. The video resolution is 1280 x 720p. The video resolution is 1920 x 1080i. The video resolution is 1920 x 1080p.

Adjusting aspect ratio

Resize an image to view its optimal size while you are watching TV.

1 Press 主页 to access the Smarthome menu.
2 Go to 应用 > 设置 > 图像 > 画面比率.
3 press 滚轮(确定).
4 Select a display method.

NOTE

- The available ratio varies depending on the input source.
» The input sources : HDMI-PC support 4:3 and 16:9.

- 16:9 : Resizes images to fit the screen width.

- 点对点扫描 : No any resize images. It is available the input signal is up to 720P resolution.

- 自动 : When your TV receives a wide screen signal it will automatically change to the picture format broadcast.

- 全宽屏 : When TV receives the wide screen signal, it will let you adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully.

- 4:3, 14:9 : Resizes images to the previous standard 4:3 or 14:9.

- 放大 : You can move or select the aspect ratio by pressing up or down button.

- 影院模式 : Formats an image to the cinemascope ratio, 2.35:1.
  - To change the ratio of the cinema zoom, press left or right and its range is from 1 to 16.
  - To move the zoom focus up or down, press up or down.

NOTE

- If you enlarge or reduce an image, the image may be distorted.

ENGLISH

Using the input list

Selecting an input source

1 Press 主页 to access the Smarthome menu.

2 Go to 应用 > 设置 > 视频输入 > 选择视频输入. The connected device displays on each input source.

NOTE

- You can also access the input source list by selecting 配置视频输入 in the 设置 menu.

3 Press the Navigation buttons to scroll to one of the input sources and press **滚轮(确定)**.

Input source	Description
内置调谐器	Watch TV over the air, cable, and digital cable broadcast.
AV	Watch video from a VCR or other external devices.
分量	Watch video from a DVD or other external devices, or through a digital set-top box.
HDMI 1/2/3	Watch video from a HTS or other high definition devices.

Editing input name

Edit the input name so that you can easily identify a device connected to each input source.

1 Press 主页 to access the Smarthome menu.

2 Go to 应用 > 设置 > 视频输入 > 选择视频输入 > 编辑输入设备名称.

3 Select the 输入设备名称 and 新输入设备名称 to change the input name.

4 Select 设置 to save.

5 When you return to the previous menu, press 返回.

Viewing 3D Imaging (Only 3D models)

1 Play the video produced in 3D.

2 Wear the 3D glasses.

3 Select the thumbnail matching the screen.

4 Press 3D button.

- Change Format : Change the video thumbnails match.

2D 转 3D	Changed from 2D imaging to 3D imaging. 2D-to-3D converted videos may appear less realistic than titles originally produced as 3D videos.
并排	
上下	
棋盘格	
单帧连续	
竖直交错	
水平交错	

- 3D 设置 : Adjusts 3D settings.
- Picture adjustment : Adjusts the Picture adjustment.
- 3D 转 2D : Changes the 3D to 2D.
- 3D off : Turn off the 3D.This TV can display in 3D via 3D broadcasting or when the TV is connected to a compatible device, such as a Blu-ray 3D Player. The viewer must wear compatible 3D glasses in order to see these images in 3D format.

- This TV can be connected to display in 3D mode via 3D broadcasting or with a compatible device (eg Blu-ray 3D player). The viewer must wear compatible 3D glasses to watch these images in 3D format.
- To watch the TV in 3D, you must put on your 3D glasses. For best results, you should wear LG Brand 3D glasses. The 3D imaging may not display properly when using another brand of 3D glasses. Please see the 3D glasses manual for instructions on how to use the 3D glasses.
- When watching 2D images, it is recommended to take off the 3D glasses. If you watch 2D images with the 3D glasses on, you may see distorted images.
- We recommend that you maintain a distance of at least twice the screen diagonal length when watching 3D videos.

NOTE

- If 3D TV broadcast standard changes in the future and it is not supported by this TV set, you may need a separate device, such as a set-top-box.

Using 3D Glasses

- Do not use the 3D glasses to replace your corrective glasses, sunglasses or protective goggles.
- Do not store the 3D glasses in hot or cold locations.
- Do not drop objects onto the 3D glasses. Do not drop or bend the glasses.
- Since the lenses of the 3D glasses are easily scratched, make sure to clean only with a soft cloth. Please shake off any dust before using the cloth since the glasses are easily scratched.

Using the customer support

Testing the Picture / Sound

To execute picture and sound tests.

1 Press 主页 to access the Smarthome menu.
2 Go to 应用 > 设置 > 客户支持.
3 Select 图像测试 or 声音测试.
4 If you have any problem, select 是. LG customer service center and product information appears. Contact LG customer service center for help.
5 When you are finished, select 关闭. When you return to the previous menu, press 返回.

Using the product or service information

To check the product or service information

1 Press 主页 to access the Smarthome menu.
2 Go to 应用 > 设置 > 客户支持 > 产品/服务信息.
3 You can check the various Product/Service infomation based on your model.
4 When you are finished, select 关闭. When you return to the previous menu, press 返回.

ENGLISH

APPLICATIONS

Android Browser

Getting started

1 Select the 浏览器 in Smarthome or in 应用.

2 While using Android Browser, select ⋮ to manage your browser windows, bookmarks, history, and more. Select 设置 to configure your browser settings.

Browser windows

- To open a new window,
  Select the icon left of ⋮ and select + to create new window, or press **Ctrl + T** on your controller.
- To view all open windows,
  Select the icon left of ⋮ and select windows.
- To reload a browser window,
  select ⋮ and then 刷新 or press **Ctrl + R** on your controller.

Android Browser shortcuts

(Only Qwerty remote)

- The shortcuts are valid only in English input mode.

Ctrl + R	Reloads the current tab.
Ctrl + T	Opens a new tab.
Ctrl + W	Closes the current tab.
Ctrl + D	Adds to Bookmarks or Home Screen.
Ctrl + F	Opens the find on page bar.
Space bar	Scrolls down the current web page.

NOTE

- Android Browser only works with pre-installed plug-ins.
- Android Browser is forcibly closed when memory is insufficient.
- For Android Browser, fonts installed on the TV are used and may not be displayed normally depending on the content played.
- Android Browser does not support file and font download.
- Android Browser is made for TV so it may function differently from PC browsers.
- Android browser does not support the Flash plug-in.
- After the user downloads Flash Player on the Market and installs it, it is possible to use it.

Browsing history

- To access your Android Browser browsing history, select ⋮ and select 书签 and select 历史记录. To clear your history, select ⋮ ,设置, 隐私和安全 and 清除历史记录.
- To clear all browsing data, including clearing your cache, history and cookie data, select ⋮ and select 设置.
- Privacy and security, clear the cache, and clear the cache, clear history, clear all cookie data

Advanced

Select ⋮ and select 设置, then 高级 to configure several advanced options, including :

- Open in background
- Enable javascript
- Allow multiple tabs per app
- Enable plug-ins
- website setting
- Default zoom
- open pages in overview
- auto-fit pages
- block pop-ups
- Text encoding
- Reset to default

AnZhi TV

Getting started

The AnZhi offers easy access to Android applications available on android TV.

Start AnZhi TV from launcher bar or 应用.
All items downloaded to your android TV will be accessible under 应用 (press 主页 and select 应用).

How to download or remove apps

Downloading Apps

* System storage capacity of 500MB or less if, There is a possibility that the malfunction of a serious system occurs. Please ensure sufficient storage space on the system.

1 Navigate to an item you want to install and select it. The item details screen will appear and you can read more about the item and its developer.
2 If you want to install the item, select the 安装. After selecting 安装 to download, the download is finished, you will be prompted to set the security installation.
3 Select 安装 to accept the permissions for the app, the item will start downloading immediately.

Removing Applications

1 From the home page select “安智市场TV”, and select “管理”.
2 Select the item you’d like to uninstall.
3 select the 卸载.

SmartShare

You can enjoy contents of smart phone, PC, USB, and camera directly in TV through SmartShare.

Connect mobile device

1 Connect mobile device to TV network.
2 Execute share feature or application in mobile device.
3 Check the mobile device list connected to TV.

Connect PC

1 Setup the SmartShare programme in PC.
2 After completion of programme setup, put files in the share folder.
3 Connect PC to TV network.
4 Check the PC list connected to TV.

Connect USB

1 Insert USB storage device into USB port behind TV.
2 Check the USB storage device list connected to TV.

Movie, Photo, and Music

Browse movie, photos, and music on a sharing website. You can also browse movie, photos, and music in the connected devices.

Keys available during playback

▶	Starts or re-starts playback (video/music playback). Starts Slideshow or starts moving a panoramic photo (photo playback).
❚❚	Pauses playback (video/music playback).
■	Stops playback. Stop playing video or music playback, and return to the file list.
◀◀ ▶▶	Fast rewinds/Fast forwards the title/track.
⏮ ⏭	Skips to the previous/next title (video playback).

Various settings and playback operations are available by pressing ☰ 菜单 during playback. The available items differ depending on the situation.

Photo playback

Slide show	You can start a slideshow.
Rotate	You can rotate photo files clockwise (Right) by 90 degrees.
Slide show setting	You can adjust the speed or random play of the slide show.

NOTE

- USB devices must be less than 2TB.

Dual Play

To enjoy the game with dual-display, use the DualPlay application. You can select the mode between Top-bottom and Side By Side.

NOTE

- It is available only for Game console mode.
- It is available only when connected with HDMI supporting the DualPlay feature.

OSS

(This feature is not available on all models. also this feature is only supported in some areas.)

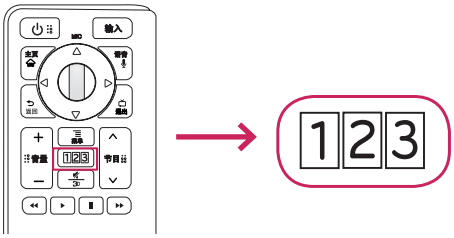
To use the Universal Control function

With the Magic Remote, you can easily control your set-top box, Blu-ray player, home theater system, and Sound Bar.

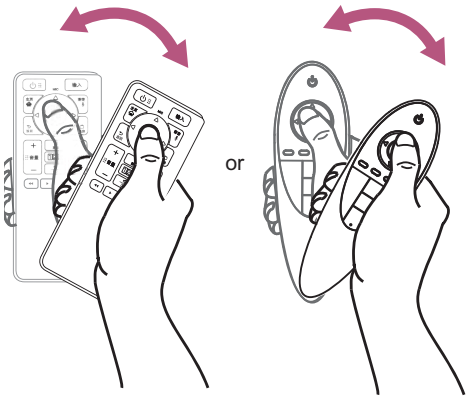
1 Check if the device is connected to the TV.

2 After pressing the 1 2 3 / 输入 or 1 2 3 buttons on the Magic Remote, select the device you want to control in the Change Device tab. The Screen Remote that can control the device appears.

or



3 You can control external devices using the Screen Remote on the screen.
(This may not work with the 1 2 3 / 输入 or 1 2 3 buttons on for some models.)



» a : Change Device tab.
» b : Device control buttons.

Tag On

(This feature is not available for all models.)

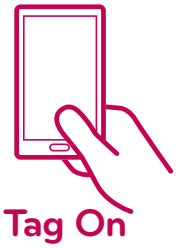
This application is only compatible with LG Android TVs which provide Tag On stickers. Simply tap an NFC-equipped smartphone against a Tag On sticker to use the game remote control app which is provided by LG Electronics and is exclusively for Android TVs.
In order to use this application, enable NFC on your smartphone.

NOTE

- To ensure Tag On sticker registers properly with NFC Smartphone , Do Not attach Tag On sticker to a metal surface.
- To ensure Tag On sticker registers properly with NFC Smartphone , Do Not fold , crush or cut Tag On sticker.

Key Features and Instructions

- You can share content between your LG Android TV and smartphone by using the Tag On app. You can also enjoy playing games on the TV by using the LG TV Gamepad app.
- Touching the smartphone to the Tag On sticker, packaged together with the LG Android TV, will take you to the LG Android Tag On app download page to download the app.
- Run the LG Android TV Tag On app to immediately use the LG TV Gamepad app which is provided by LG Electronics and is exclusively for Android TV.
- Now with the Tag On sticker, all the smart features of the LG Android TV are just one touch away!



ENGLISH

On now

(This feature is not available on all models. also this feature is only supported in some areas.)

On Now allows you to select and watch recommended programs currently available on your TV. On Now allows you to select and watch recommended content related to the program you are watching.

To see in Mini view

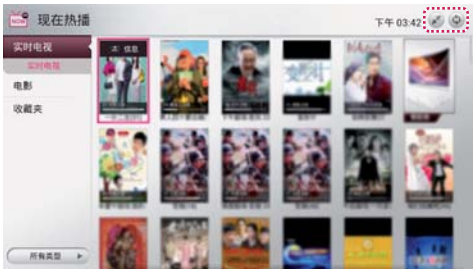
1 Home > Apps > On Now app

2 Press the **Wheel(OK)** button while watching to select the On Now on the activated channel banner area.

	Moves to Full View.
	Refreshes all list items and moves to the beginning of the screen simultaneously.

To see in Full View

1 On Now miniView click full view button.



	Move to Mini view.
	Refreshes all the list items and moves the screen up simultaneously.

To use On Now

- For TV channels, you need to complete Auto Tuning to use this service properly.
- If you move to a different region, you need to Auto Tuning again to your current location in order to use this service.
- The digital EPG (Electronic Program Guide) information which the TV receives may be different from the programs on the On Now TV list which uses an external EPG (Electronic Program Guide).
- You can control a connected set-top box tuner with the Magic Remote Control.
- An internet connection is required to use On Now.
- The channels in the On Now TV list are provided from the Service Operator. If the Service Operator changes them without notice, the actual TV channels may differ.
- The channel names of Service Operator on the On Now TV list are provided from an external EPG (Electronic Program Guide), so each name refers a Service Operator but may not match.
- The program thumbnail image on the On Now TV list is the representative image of the program, and it may be different from the image of the actual TV program schedule.
- A scrambled channel may be displayed occasionally, depending on the TV signal type.
- On Now function may not work with some set-top box models.

SETTINGS

The Main Menus

You can choose to set up or navigate to the settings in the application home page to view or edit your television set. You will be able to review or update the TV settings including:

网络	Manage internet connection.
图像	Adjust the Picture.
声音	Adjust the Sound.
节目	Set up and edit programmes.
视频输入	Select an input source.
日期和时间	Set date, time, time zone and formats.
应用	Manage applications and development options.
隐私和安全	Manage privacy, safety and lock settings.
访问性	Manage accessibility options.
选项	Manage system option.
客户支持	Check the customer information.

网络 (Network)

Manage Internet connection.

以太网	You can set up the status of the wired network connection.
Wi-Fi	You can select an available Wi-Fi network from the list of Wi-Fi networks found in your area or set up a new Wi-Fi network.
网络诊断工具	Launch network diagnostic tool.
我的电视名称	You can see the your TV name.

图像 (Picture)

Adjust the energy saving mode, 3D settings, Picture mode, aspect ratio and sound effects.

节能模式	Adjust the TV backlight to save power energy
3D设置	Adjust the 3D settings.
画面模式	Adjust the Picture mode.
画面比率	Adjust the aspect ratio.
画质魔法师 III	Adjust the image quality and calibrate the screen

声音 (Sound)

Adjusts sound effects.

声音模式	Adjusting the sound mode
虚拟环绕音效	Set the Virtural surround.
炫亮人声	Set the Clear voice.
扬声器	Select TV or external speaker.
声像同步	Set the AV Sync.
音量	Adjust the volume level.
声音优化器	Adjust the sound quality, effect or volume level.
默认通知提示音	Select Silent if you want to silence the notification sounds.

ENGLISH

节目 (Programme)

Set up and edit programmes.

自动搜台	Tune and Store all available programmes through antennas or cable inputs.
手动搜台	Manual station search and save programmes.
节目列表	View the Programme list.
CI信息	Read and set CI information.
数字有线运营商	Select digital cable operators.

视频输入 (Video Input)

Select an input source.

配置视频输入	Edit configured devices. (You can select the device to control or to set as the tuner.)
选择视频输入	Select available source. (To add a device, select it from the list.)

日期和时间 (Date & time)

自动确定日期和时间	Use provided network time.
设置日期	Set the date manually.
设置时间	Set the time manually.
选择时区	Select time zone
使用24小时格式	Select the 24-hour format.
选择日期格式	Choose date format.
定时关机	Set the time to turn Off the TV automatically.
定时开机	Set the time to turn On the TV automatically.
睡眠设置	Set the length of time before the TV turns off.

应用 (Application)

Manage applications and development options.

未知源	Allow installation of Unknown sources.
验证应用	Verify apps.
管理应用	Manage and remove installed applications.

隐私和安全 (Privacy & safety)

Manage privacy, safety and lock settings.

家长锁	Lock or Unlock channels and programmes.
设备管理器	View or deactivate device administrators.

访问性 (Accessibility)

Manage accessibility options.

大号字体	Allow applications to download accessibility scripts from Google.

选项 (Options)

Manage system option.

音频语言	Select the audio language.
语言	Select a language.
字体大小	Set the font size.
环境选择	Select your environment.
存储	Unmount USB storage, view available storage.
启用FTP访问	Set the FTP server to be disabled or enabled.
输入设备	Manage input devices
初始化设置	Factory Reset. All user settings and programme settings will be reset.
显示语音助手	See avatar.

客户支持 (Customer Support)

Views the system information.

图像测试	Select Picture test.
声音测试	Select Sound test.
产品/服务信息	Show the Product or Service information.
开放源代码许可	Open source licenses.
用户协议	Users agree.
型号	View the model name.
安卓版本	View the android version.
内核版本	View the kernel version.
版本号	View the build number.

APPENDIX

Updating the TV system

Download and install the latest system through network signal to enhance or change the product function, or add new features.
To check the current firmware version or update the firmware,

1 Go to 应用 > 系统更新.

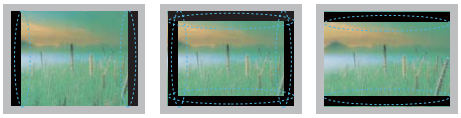
2 Press the navigation button to open the 系统更新.

3 The current firmware version displays.
If new update exists, the download is started automaticaly on background. When downloading is completed, a Pop-up appears. Then update your system.

NOTE

- You cannot downgrade back to an older system version.
- The period of time for the firmware update may be different depending on the firmware size and network bandwidth.

Preventing “Image burn” or “Burn-in” on your TV screen



- If a fixed image displays on the TV screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is “image burn” or “burn-in” and not covered by the warranty.
- If the aspect ratio of the TV is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.
- Avoid displaying a fixed image on the TV screen for a long period of time (1 or more hours for the Plasma TV) to prevent image burn.

ENGLISH

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.

废弃处理

不要与一般的家庭废弃物一起丢弃。
根据当地职能部门的规定处理该产品。

TROUBLESHOOTING

General

Problem	Solution
Cannot control the TV with the remote control.	• Check the remote control sensor on the product and try again. • Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖).
No image display and no sound is produced.	• Check if the product is turned on. • Check if the power cord is connected to a wall outlet. • Check if there is a problem in the wall outlet by connecting other products.
Image appears slowly when the TV turns on.	• The image is muted during the product startup process. This is normal. If the image does not appear in a few minutes, unplug the TV for 30 seconds and try again. If the image still does not appear, contact the authorized service center in your local area.
Cannot connect external devices.	• Refer to the "Connection Overview" and connect an external device.
The TV turns off suddenly.	• Check the power control settings. The power supply may be interrupted. • Check if the 睡眠设置 or 定时关机 feature is activated in the 日期和时间 settings. • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

Audio

Problem	Solution
No sound is produced while images are displaying.	• Press ✚ 音量 button. • Check if the sound is muted by pressing 🔇(MUTE). • Scroll to other programmes. Individual programs may be broadcast signal problems. • Check if the TV Speaker feature is activated in the settings.
No output from one of the speakers	• Adjust Balance in the settings.
Unusual sound from inside the TV is produced.	• A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off. There is no problem with your product.

Browser

Problem	Solution
While using internet features, there is space that does not appear in some web sites.	• Do not support flash and may not replay any file format other than the following : JPEG, PNG, GIF, BMP, WMV (ASF), WMA, MP3, MP4.
Internet closes automatically when visiting website.	• If memory is insufficient because of large volume of image information in the web page, internet may be forced to close.
exception for Internet downloading application runtime	• Can not ensure that the application can be used normally on TV, it is recommended to download APP from ING markets.

Video

Problem	Solution
An image displays in black and white or the color quality is poor.	• Adjust the color setting in the menu option. • Keep a sufficient distance between this product and other electronic products. • Scroll to other programmes. There may a problem with the broadcast.
Horizontal or vertical bars appears or images blur	• Check if there are local interferences such as an electrical appliance or power tool.
Lines or streaks appear on images	• Check the antenna or aim the antenna to the proper direction.
Afterimages (ghosts) appear when the product turns off	• Pixels may have been damaged from a fixed image displayed for a long time (image burn). Use a screen saver to prevent the pixel damage on the screen.
The power is on but the screen appears extremely dark.	• Adjust the brightness and contrast in the menu option.
“No Signal” appears on the screen.	• Check if the signal cable is connected between the TV and products properly.
Black spots appear on the screen.	• Several pixels in red, green, white, or black may appear on the screen that can attribute to the characteristics of the panel. This is normal.
The display offset is wrong.	• Adjust the position setting in the settings. • Check if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution using the display settings on the external device.
Thin lines appear in the background of the screen.	• Check the video cable connections.
The reception on some programmes is poor.	• Scroll to other programmes. There may a problem with the broadcast. • The station signal may be weak. Aim the antenna to the proper direction. • Check if there is local interferences such as an electrical appliance or power tool.

Movie

Problem	Solution
Message is displayed saying “This file is invalid” or the audio is working normally but the video is not working normally.	• Check whether the file is playing normally on a PC. (Check whether the file is damaged.) • Check whether the resolution is supported. • Check whether the video/audio codec is supported. • Check whether the frame rate is supported.
Message is displayed saying “Unsupported Audio” or the video is working normally but the audio is not working normally.	• Check whether the file is playing normally on a PC. (Check whether the file is damaged.) • Check whether the audio codec is supported. • Check whether the bit rate is supported. • Check whether the sample rate is supported.
Subtitle is not working.	• Check whether the file is playing normally on a PC. (Check whether the file is damaged.) • Check whether the video file and subtitle file name are the same. • Check whether the video file and subtitle file are located in the same folder. • Check whether the subtitle file is supported. • Check whether the language is supported. (When you open the subtitle file in Memo Pad, you can check the language of the subtitle file.)

ENGLISH

SPECIFICATIONS

Product specifications may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

MODELS		42GB58**	47GB58**	50GB58**
		42GB5800-CB	47GB5800-CB	50GB5800-CB
Dimensions (W x H x D)	With stand (mm)	961 x 610 x 218	1073 x 676 x 255	1128 x 708 x 255
	Without stand(mm)	961 x 567 x 55.5	1073 x 629 x 55.8	1128 x 660 x 55.8
Weight	With stand (kg)	9.5	12.7	14.2
	Without stand (kg)	9.2	12.3	13.8
Power requirement		AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz
MODELS		**55GB58****	**42GB63****	**47GB63****
		55GB5800-CB	42GB6310-CC	47GB6310-CC
Dimensions (W x H x D)	With stand (mm)	1243 x 772 x 255	960 x 610 x 218	1072 x 677 x 247
	Without stand(mm)	1243 x 725 x 56.8	960 x 567 x 54.5	1072 x 629 x 54.5
Weight	With stand (kg)	17.7	9.9	13.4
	Without stand (kg)	17.3	9.6	13.0
Power requirement		AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz
MODELS		**55GB63****	**65GB63****	**42GB65****
		55GB6310-CC	65GB6310-CC	42GB6500-CA
Dimensions (W x H x D)	With stand (mm)	1241 x 772 x 247	1462 x 898 x 314	960 x 610 x 218
	Without stand(mm)	1241 x 725 x 55.5	1462 x 850 x 59.2	960 x 567 x 54.5
Weight	With stand (kg)	18.7	30.5	9.9
	Without stand (kg)	18.3	29.0	9.6
Power requirement		AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz
MODELS		**47GB65****	**55GB65****	**60GB65****
		47GB6500-CA	55GB6500-CA	60GB6500-CA
Dimensions (W x H x D)	With stand (mm)	1072 x 677 x 247	1241 x 772 x 247	1351 x 834 x 271
	Without stand(mm)	1072 x 629 x 54.5	1241 x 725 x 55.5	1351 x 788 x 57.5
Weight	With stand (kg)	13.4	18.7	22.4
	Without stand (kg)	13.0	18.3	21.8
Power requirement		AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz

MODELS		47GB67**	55GB67**	65GB72**
		47GB6780-CD	55GB6780-CD	65GB7200-CA
Dimensions (W x H x D)	With stand (mm)	960 x 629 x 238	1229.8 x 767.5 x 247.5	1449.5 x 883.7 x 313.9
	Without stand(mm)	960 x 567 x 54.5	1229.8 x 708.6 x 55.1	1449.5 x 840.8 x 58.1
Weight	With stand (kg)	10.1	18.5	27.9
	Without stand (kg)	9.6	17.9	26.5
Power requirement		AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz
MODELS		70GB72**	47GB78**	55GB78**
		70GB7200-CA	47GB7800-CC	55GB7800-CC
Dimensions (W x H x D)	With stand (mm)	1574 x 970 x 314	1061 x 702 x 268	1231 x 797 x 327.5
	Without stand(mm)	1574 x 919 x 60.2	1061 x 623 x 55.1	1231 x 718 x 55.1
Weight	With stand (kg)	31.6	15.1	21.6
	Without stand (kg)	30.1	12.8	18.5
Power requirement		AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz	AC 100-220 V ~ 50 Hz
MODELS		60GB78**		
		60GB7800-CC		
Dimensions (W x H x D)	With stand (mm)	1338.4 x 857 x 327.5		
	Without stand(mm)	1338.4 x 778.8 x 58.1		
Weight	With stand (kg)	24.8		
	Without stand (kg)	21.3		
Power requirement		AC 100-220 V ~ 50 Hz		

	Digital TV	Analogue TV
Television System	DTMB, DVB-C	PAL D/K, PAL I, NTSC M
Program Coverage	DTMB : 1 ~ 62 DVB-C : 52.5 MHz ~ 866 Mhz	PAL D/K : VHF/UHF 1 ~ 62, CATV 1 ~ 41 PAL I : VHF/UHF 1 ~ 69, CATV 1 ~ 47 NTSC M : VHF/UHF 2 ~ 78, CATV 1 ~ 71
External Antenna Impedance	75 Ω	75 Ω

Environment condition	Operating Temperature	0°C ~ 40°C
	Operating Humidity	Less than 80 %
	Storage Temperature	-20°C ~ 60°C
	Storage Humidity	Less than 85 %

HDMI-DTV supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480	31.469 / 31.5	59.94 / 60
720 x 480	31.469 / 31.5	59.94 / 60
720 x 576	31.25 15.625	50 50
1280 x 720	37.5 44.96 / 45	50 59.94 / 60
1920 x 1080	33.72 / 33.75 28.125 28.125 26.973 / 27 33.716 / 33.75 56.25 67.432 / 67.5	59.94 / 60 25 50 23.976 / 24 29.97 / 30.00 50 59.94 / 60

HDMI-PC supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.468	70.09
720 x 400	31.469	70.08
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	67.5	60.00

Component port connecting information

Component ports on the TV	Y	P_B	P_R

Video output ports on DVD player	Y	P_B	P_R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

Signal	Component
480i/576i	O
480p/576p	O
720p/1080i	O
1080p	O (50 Hz / 60 Hz only)

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3D supported mode (Only 3D models)

- 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	480p	31.469 / 31.5	59.94 / 60	Side by Side(Half), Top & Bottom, Side by Side(Full)
		62.938 / 63		Frame Packing, Line Alternative
	576p	31.25	50	Side by Side(Half), Top & Bottom, Side by Side(Full)
		62.5		Frame Packing, Line Alternative
	720p	37.50	50	Side by Side(Half), Top & Bottom, 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	Side by Side(Half), Top & Bottom, Side by Side(Full)
		33.72 / 33.75	59.94 / 60	
		56.25	50	Frame packing, Line Alternative
		67.432 / 67.5	59.94 / 60	
	1080p	26.97 / 27	23.97 / 24	Side by Side(Half), Top & Bottom, 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	Side by Side(Half), Top & Bottom
		67.432 / 67.5	59.94 / 60	

Input	Signal	Playable 3D video format
DTV	Frame Compatible	Side by Side(Half), Top & Bottom

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	-	-	
	1280 x 720p	37.5	50	
		45	60	
		44.96	59.94	
	1920 x 1080i	33.75	60	
		33.72	59.94	
		28.12	50	
		67.5	60	
		67.432	59.94	
		27	24	
		28.12	25	
		56.25	50	
		26.97	23.976	
		33.75	30	
		33.71	29.97	
HDMI-PC	1024 x 768p	48.36	60	
	1360 x 768p	47.71		
	1920 x 1080p	67.5		2D to 3D, Side by Side(Half), Top & Bottom, Checker Board, Single Frame Sequential, Row Interleaving, Column Interleaving
	3840 x 2160p	54	24	2D to 3D, Top & Bottom(Half), Side by Side(Half)
		56.25	24	
		67.5	30	
	Others	-	-	2D to 3D, Side by Side(Half), Top & Bottom

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3D supported mode manually				
Input	Signal			Playable 3D video format
	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	
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 Sied(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	
USB(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, Row Interleaving, Column Interleaving, Frame Sequential
	Over 704 x 480 progressive	-	others	2D to 3D, Side by Side(Half), Top & Bottom,Checker Board, Row Interleaving, Column Interleaving
USB	Under 320 x 240	-	-	2D to 3D
	Over 320 x 240	-	-	2D to 3D, Side by Side(Half), Top & Bottom

Video Supported Formats

File Extension	Video Codec	Audio Codec	Max Resolution
mpg, mpeg	MPEG1,2	MP3, Dolby Digital, PCM	1920 x 1080 @ 30p
ts, trp, tp, mts, m2ts	MPEG1,2 H.264	MP3, Dolby Digital, AAC, HE-AAC,	
vob	MPEG1, 2	MP2, Dolby Digital	
mp4, mov	MPEG4, DivX 3.11, DivX 4, DivX 5, H.264, H.263	Dolby Digital, AAC, HE-AAC, MP3	
mkv	H.264, VC1, VP8, MPEG2, MPEG4	MP3, Dolby Digital, AAC, HE-AAC	
avi, divx	MPEG4, DivX 3.11, DivX 4, DivX 5, DivX 6, H.264, VC-1, XVID	MP3, Dolby Digital, PCM, AAC, HE-AAC, WMA(standard)	
asf, wmv	VC1	WMA(standard)	
flv	Sorenson H.263, H264	MP3, AAC, PCM	

Subtitle Supported Formats

File Extension	Language	Measurement	Remark
smi, srt	Mandarin	Support UTF-8 encoded file.	Adjust : - 10 ~ + 10
	Cantonese		
	English		

Photo Supported Formats

File Extension	Item	Profile
JPEG, JPG, JPE	Support File type	SOF0 : baseline SOF1 : Extend Sequential SOF2 : Progressive
	Picture Size	Min : 64 * 64 Max : - Normal type : 15360(W)*8640(H), - Progressive type : 1920(W) * 1440(H)
PNG, GIF, BMP	Picture Size	Min 64x64 Max 8000 x 6000

ENGLISH

有毒有害物质成份及含量表

为满足中国电子信息产品污染控制管理办法要求，以下提供的是电子信息产品部件名称以及可能含有的有毒有害物质信息。液晶电视机

电视机

部件名称	有毒有害物质成分及含量					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB组装板	×	○	○	○	○	○
金属支架	×	○	○	○	○	○
PDP显示屏	×	○	○	○	○	○
LCD显示屏 (CCFL背光)	×	×	○	○	○	○
LCD显示屏 (LED 背光)	×	○	○	○	○	○
OLED显示屏	×	○	○	○	○	○
遥控器	×	○	○	○	○	○
喇叭组件	×	○	○	○	○	○
适配器*	×	○	○	○	○	○
附件	×	○	○	○	○	○

“○”：表示有毒有害物质在该部品（均质材料）中的含量低于SJ/T11363-2006的限量要求。

“×”：表示有毒有害物质在该部品（均质材料） 中的含量高于SJ/T11363-2006的限量要求。

在上述表格中，标注”X”的部品满足欧洲共体的ROHS法令--欧盟议会制定的在电子电器产品中限制使用某些有害物质的2002/95/EC 指令。

“*”表示仅适用于须要使用该部品的产品。

注意：所有在中国销售的电子信息产品必须标有环保使用期限的标识。该标识的环保使用期限是指在正常使用条件如温度、湿度，并且不包括电池等耗材情况下的使用期限。

此标识适用于产品中使用的电池，由于电池表面积太小，特在此说明。

ENGLISH

警告

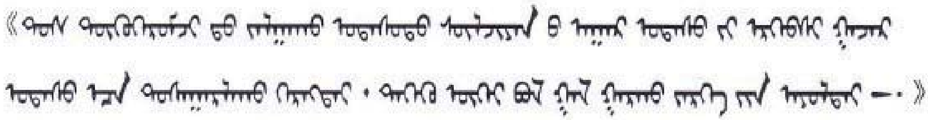
汉语

“接入本设备的有线网络天线必须与保护接地隔离，不然可能会引起着火等危险！”

壮语

“Gij mizsienq vangjloz densen ciephaeuj bonj sezbi daeuj haenx itdingh aeu caeuq gij ciepdieg baujhoh doxliz, mboujne aiq miz gij yungyiemj dawzfeiz daengj！”

蒙古语



藏语

“སྒྲིག་ཆས་འདིའི་སྐུད་ཡོད་འཕྲིན་བྲའི་གནམ་སྐུད་དང་འབྲེལ་མཐུད་བྱེད་སྐབས་ངེས་པར་དུ་ཉེན་འགོག་ས་སྐུད་དང་ལོགས་སུ་དགར་དགོས། དེ་ལྟར་མ་བྱས་ན་མེ་འབར་བ་ལ་སོགས་པའི་ཉེན་ཁ་ཡོད་སྲིད། ”

维吾尔语

بۇ ئۈسكۈنىگە ئۇلايدىغان سىملىق تور ئانتېننىسىنى يەرگە ئۇلاپ بىخەتەرلەشتۈرۈش بىلەن ئايرىۋېتىڭ، بولمىسا ئوت كېتىشتەك خەۋپلەر كېلىپ چىقىدۇ

备注：有线网络天线接口与保护接地的隔离装置，已经内置在本设备内，用户可以直接连接有线网络天线，无需再进行隔离。

Life's Good

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 _____

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

In order to comply with RF exposure requirements,a minium distance of 20cm must be maintained between the antenna and all persons.