Life's Good

OWNER'S MANUAL

Safety and Reference

LED TV*

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

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

MFL69446163

www.lg.com

P/NO : MFL69446163 (1701-REV00)

India region only. (Below sentence is not applicable for above 1920 X 1080 resolution TV models.)

ATTENTION:

This product is qualified for the BEE Star rating in the 'Home' Mode.

The Objectives of Star Labeling Program is designed to promote energy efficient products and practices.

When the television is initially set up, it is designed to meet the BEE Star Labeling requirements while maintaining optimum picture quality.

- Changes to certain functionalities of this television (TV Guide, Picture/sound etc) may change the power consumption.
- Depending upon such changed setting (eg., Retail mode), the power consumption may vary which possibly could exceed the stated energy consumption.

To reset the television to Star rating qualified settings, select 'Home' mode from the initial set-up procedure in 'factory settings' under the 'Set-up' menu.

Warning! Safety instructions



CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

- 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) into the end of power cable while the power plug is plugged into wall socket. Additionally, do not touch the power plug right after unplugging from the wall socket. You may be electrocuted.
- 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 damaged
  - Foreign objects have entered the product
  - The product produced smoke or a strange smell

  This may result in fire or electric shock.
- Unplug the TV from AC mains wall socket if you do not intend to use the TV for a long period of time. Accumulated dust can cause fire hazard and insulation deterioration can cause electric leakage/ shock/fire.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.
- If water enters or comes into contact with TV, AC adapter or power cord please disconnect the power cord and contact service centre immediately. Otherwise, this may result in electric shock or fire.
- Only use an authorized AC adapter and power cord approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction or product deformation.
- Never Disassemble the AC adapter or power cord. This may result in fire or electric shock.
- Be careful in handling the adapter to prevent any external shocks to it. An external shock may cause damage to the adapter.
- Make sure the power cord is connected securely to the power plug on the TV.

⚠ 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.
- 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.

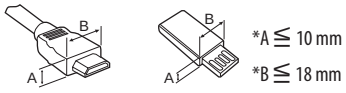
  This may result in fire.
- Take care not to touch the ventilation openings when watching the TV for long periods as the ventilation openings may become hot. This does not affect the operation or performance of the product.

- 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.
- 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.
- 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.
- Do not use high voltage electrical goods near the TV (e.g. electric mosquito-swatter). This may result in product malfunction.
- 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).

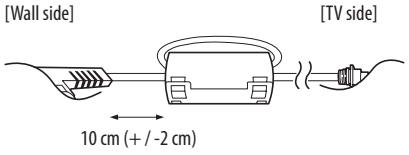
Preparing

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 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.



- Use a certified cable with the HDMI logo attached.
- If you do not use a certified HDMI cable, the screen may not display or a connection error may occur. (Recommended HDMI Cable Types)
  - High-Speed HDMI®/™ cable (3 m or less)
  - High-Speed HDMI®/™ cable with Ethernet (3 m or less)
- How to use the ferrite core (Depending on model)
  - Use the ferrite core to reduce the electromagnetic interference in the power cord. Wind the power cord on the ferrite core once.



CAUTION

- Do not use any unapproved items to ensure the safety and product life span.
- Any damage or injuries caused by using unapproved items are not covered by the manufacturer's warranty.
- Some models have a thin film attached on to the screen and this must not be removed.
- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.
- Make sure that the screws are inserted correctly and fastened securely. (If they are not fastened securely enough, the TV may tilt forward after being installed.) Do not use too much force and over tighten the screws; otherwise screw may be damaged and not tighten correctly.

- Make sure to wring any excess water or cleaner from the cloth.
- Do not spray water or cleaner directly onto the TV screen.
- Make sure to spray just enough of water or cleaner onto a dry cloth to wipe the screen.
- When cleaning the product, be careful not to allow any liquid or foreign objects to enter the gap between the upper, left or right side of the panel and the guide panel. (Depending on model)



Maintenance

Cleaning your TV

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

- 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.

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

Lifting and moving the TV

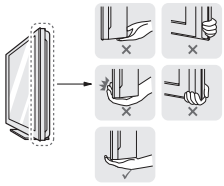
(Image may vary depending on models)

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

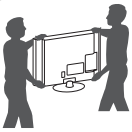
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



- 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 buttons.

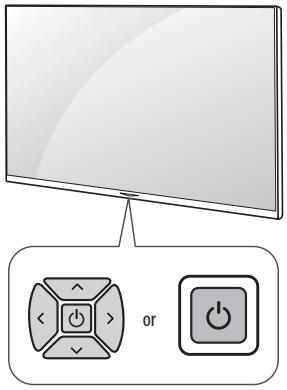
⚠ CAUTION

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not move the TV by holding the cable holders, as the cable holders may break, and injuries and damage to the TV may occur.

Using the button

(Depending on model)

You can simply operate the TV functions, using the button.



Basic functions

	Power On (Press)	When the TV is turned off, Place your finger on the Joystick button and Press it once and release it.
	Power Off[1] (Press and hold)	When the TV is turned on, place your finger on the joystick button and press it once for few seconds and release it. (However, if the Menu button is on the screen, pressing and holding the joystick button will let you exit the Menu.
	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 forward or backward, you can scrolls through the saved programmes you want.

	Power On (Press) Power Off (Press and hold) Menu Control (Press[2]) Menu Selection (Press and Hold[3])

1 If the Menu button is on the screen, pressing and holding the button will let you exit the Menu.
2 You can access and adjust the menu by pressing the button when TV is on.
3 You can use the function when you access menu control.

Adjusting the menu

(Depending on model)

When the TV is turned on, press the ⏻ button one time. You can adjust the Menu items using the button.

⏻	Turns the power off.
⚙	Accesses the settings menu.
✕	Clears on-screen displays and returns to TV viewing.
⇄	Changes the input source.
∧∨	Scrolls through the saved programmes.
+ −	Adjusts the volume level.

Mounting on a table

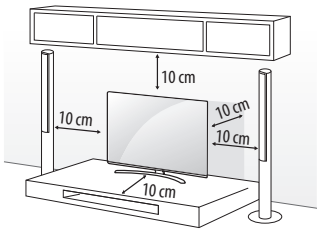
(*Image may vary depending on models)

NOTE

Size of the table should be sufficient enough to accommodate TV base stand.

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.

WARNING

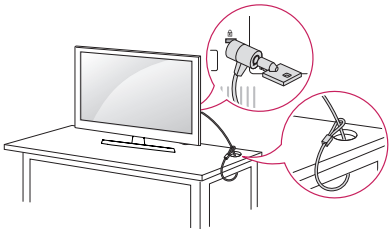
- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)
- If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
  - » Using cabinets or stands recommended by the manufacturer of the television.
  - » Only using furniture that can safely support the television. the television.
  - » Ensuring the television is not overhanging the edge of the supporting furniture.
  - » Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
  - » Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
  - » Educating children about the dangers of climbing on furniture to reach the television or its controls.

Using the kensington security system

This feature may vary depending on model.

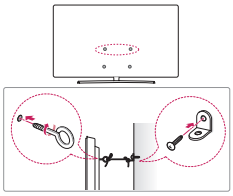
- Image shown may differ from your TV.

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

(Features may vary depending on 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.

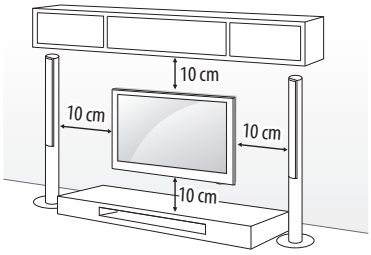
NOTE

- 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

(Image may vary depending on models)

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. LG's wall mount bracket is easy to move with cables connected. 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. It is advised to connect all the cables before installing fixed wall mounts.



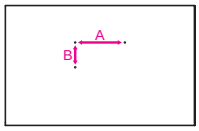
Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

⚠ CAUTION

- Disconnect the power cord first, and then move or install the TV. Otherwise electric shock may occur.
- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- The Screw Cover will protect the opening from accumulating dust and dirty.
- If you install the TV on a ceiling or slanted wall, it may fall and Result in severe injury. Use an authorized LG wall mount and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the TV And void your warranty.
- Use the screws and wall mounts that meet the VESA standard. Any Damages or injuries by misuse or using an improper accessory are Not covered by the manufacture's warranty.

Separate purchase (Wall mounting bracket)

Model	32/43LJ51** 32/43LJ52** 32/43LJ53** 32/43LJ54**	49LJ51** 49LJ52**
VESA (A x B) (mm)	200 x 200	300 x 300
Standard screw	M6	M6
Number of screws	4	4



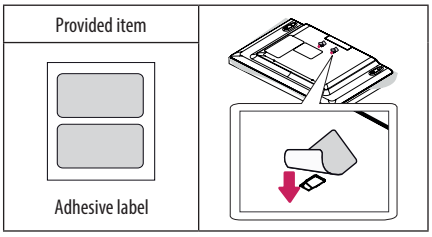
⚠ CAUTION

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

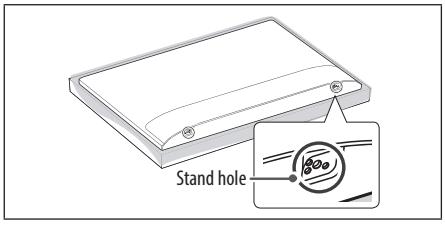
NOTE

- Do not use a sharp object when you detached the cable cover. This could damage the cable or the cabinet. It may also cause personal harm.
- 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 in not provided along with the TV set.
- 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 installing the wall mounting bracket, use the adhesive label provided. The adhesive label will protect the opening from accumulating dust and dirt. (Only when the item of the following form is provided)



- When installing the wall mounting bracket, it is recommended to cover the stand hole using tape, in order to prevent the influx of dust and insects. (Depending on model)



Connections (notifications)

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.

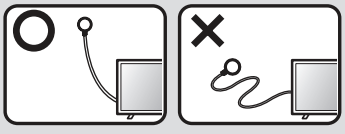
Antenna connection

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

- 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

(Only LJ523*)
Connect the terrestrial antenna to TV ANTENNA IN to listen to crisp radio without having to install a separate antenna.
Connect an FM antenna cable to the radio antenna port.

- When connecting the FM antenna cable, straighten the cable completely and set it in a position that delivers good reception.



- **Improving radio broadcast reception** : If the reception is poor in stereo mode, press the (Forced Mono) button on your remote control. This may improve the radio reception.

Adapter connection

(Depending on model)

- Please be sure to connect the TV to the AC-DC power adapter before connecting the TV's power plug to a wall power outlet.

Other connections

Connect your TV to external devices. For the best picture and audio quality, connect the external device and the TV with the HDMI cable. Some separate cable is not provided.

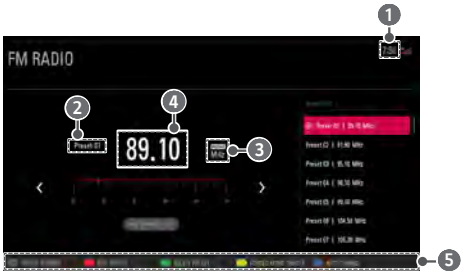
NOTE

- Supported HDMI Audio format :
  DTS (44.1kHz / 48kHz),
  Dolby Digital / Dolby Digital Plus (32 kHz, 44.1 kHz, 48 kHz),
  PCM (32 KHz, 44.1 KHz, 48 KHz, 96 KHz, 192 KHz)
  (Depending on model)

Listening to the Radio

(Only LJ523*)

1 Press **(HOME)** and select **FM Radio**.
2 Listen to the radio by using the following menus/buttons.



No.	Description
1	Current time.
2	Current preset number.
3	Audio mode. (Stereo, Mono, Forced Mono)
4	Current radio frequency.
5	Available buttons on the remote control.

Remote control

(Depending on model)

(Some buttons and services may not be provided depending on models or regions.)

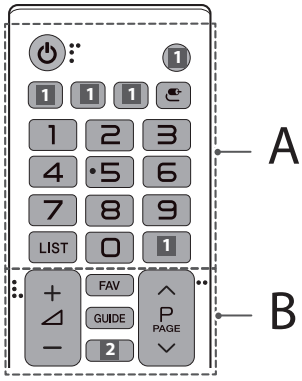
The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.

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

⚠ CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- In Analogue TV and some countries, some remote control buttons may not work.
- The remote control will not be included for all sales market.

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



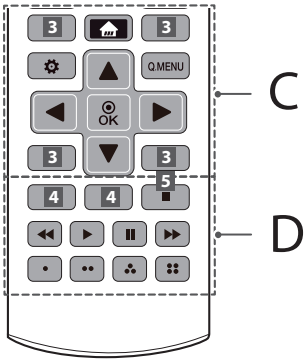
A

(POWER) Turns the TV on or off.
1 TV/RAD /, **TV/RAD** Selects Radio, TV and DTV programme.
1 SUBTITLE Recalls your preferred subtitle in digital mode. (Depending on model)
1 BOLLYWOOD Switches the BOLLYWOOD sound mode. (Depending on model)
1 AD Audio descriptions function will be enabled. (Depending on model)
1 RATIO Resizes an image. (Depending on model)
1 INFO Views the information of the current programme and screen. (Depending on model)
1 Q.VIEW Returns to the previously viewed programme. (Depending on model)
1 MOSQUITO AWAY Used to start or stop Mosquito Away operation.
* The Mosquito Away performance can be different depending on the customer's environment. For detail, refer Disclaimer. (See p. 23) (Depending on model)

1 FM/RAD Turns radio mode on or off. If radio mode is turned off, the screen switches to the previously viewed screen.
(INPUT) Changes the input source.
Number buttons Enters numbers.
LIST Accesses the saved programme list.

B

+ − Adjusts the volume level.
FAV Accesses your favourite programme list.
GUIDE Shows programme guide.
2 , (MUTE) Mutes all sounds.
P Scrolls through the saved programmes.
PAGE Moves to the previous or next screen.



C

3 Teletext buttons (TEXT, T.OPT) These buttons are used for teletext. (Depending on model)
(HOME) Accesses the Home menu.
(Settings) Accesses the Settings menu
Q.MENU Accesses the Quick menus.
Navigation buttons (up/down/left/right) Scrolls through menus or options.
OK Selects menus or options and confirms your input.
3 BACK Returns to the previous level.
3 EXIT Clears on-screen displays and returns to TV viewing. (Depending on model)

D

4 AD/ Audio descriptions function will be enabled.
4 INFO Views the information of the current programme and screen.
4 ●REC , ●REC/ Starts to record and displays record menu. (Only Time Machine[Ready] supported model)
5 LIVE TV Returns to LIVE TV.
Control buttons (■, ▶, ❚❚, ◀◀, ▶▶) Controls media contents.
Coloured buttons These access special functions in some menus.

ENGLISH

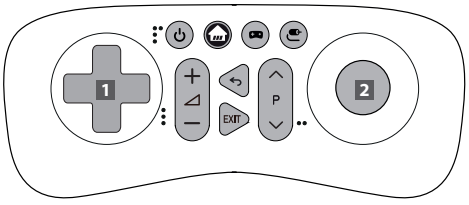
Game remote functions

(Depending on model)

(Image may vary depending on models)

(Some buttons and services may not be provided depending on models or regions.)

Game Hot Key works only in normal TV viewing mode. (Not in USB Playback)



(POWER) Turns TV on or off.
(HOME) Accesses the Home menu.
(Game) Opens Game menu.
(Input list) Changes the input source.
(Back) Returns to the previous level.
EXIT Clears on-screen displays and returns to TV viewing.
+ ⊿ − Adjusts the volume level.
∧ **P** ∨ Scrolls through the saved programmes.
1 Navigation buttons (up/down/left/right) Scrolls through menus or options.
2 OK Game selection / Game play

Licenses

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

DOLBY AUDIO™

Manufactured under license from Dolby Laboratories. Dolby, Dolby Vision, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

DIVX HD

This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video.

To play purchased DivX movies, first register your device at vod.divx.com. Find your registration code in the DivX VOD section of your device setup menu.

DivX Certified® to play DivX® video up to HD 1080p, including premium content.

DivX®, DivX Certified® and associated logos are trademarks of DivX, LLC and are used under license.

Covered by DivX Patents 7,295,673; 7,515,710; RE45,052; and others available at [*www.divx.com/patents*].

(Only LJ51*T, LJ52*T, LJ53*T, LJ54*T, LJ51*D, LJ52*D, LJ53*D, LJ54*D)

dts 2.0 Channel

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Open source software notice information

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

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

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

Settings

Automatically Setting Up Programme

⚙ (Settings) ⇨ Programmes ⇨ Auto Tuning

Automatically tunes the programmes.

- If Input Source is not connected properly, programme registration may not work.
- **Auto Tuning** only finds programmes that are currently broadcasting.
- If **Lock System** is turned on, a pop-up window will appear asking for password.

To select Picture Mode

⚙ (Settings) ⇨ Picture ⇨ Picture Mode Settings ⇨ Picture Mode

Select the picture mode optimized for the viewing environment or the programme.

- **Vivid** : Heightens contrast, brightness and sharpness to display vivid images.
- **Standard** : Displays images in standard levels of contrast, brightness and sharpness.
- **Eco/APS** : [Depending on model]
  The Energy Saver feature changes settings on the TV to reduce power consumption.
- **Cinema/Game** : Displays the optimum picture for movie, game.
- **Soccer/Cricket** : [Depending on model]
  Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.
- **Expert 1, 2** : Menu for adjusting picture quality that allows experts and amateurs to enjoy the best TV viewing. This is the adjustment menu provided for ISF-certified picture tuning professionals. (ISF logo can only be used on ISF-certified TVs.)
  ISFccc: Imaging Science Foundation Certified Calibration Control
- Depending on input signal, available range of picture modes may differ.
- Expert mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be dramatic.
- The ISF function is only available on some models.
- Changing **Picture Mode** may modify **Energy Saving** and **Motion Eye Care** settings, which can also affect energy consumption.

Fine-tuning Picture Mode

⚙ (Settings) ⇨ Picture ⇨ Picture Mode Settings

This feature allows you to adjust the selected picture mode in detail.

- **Backlight** : Controls the level of screen brightness by adjusting the backlight. The closer to 100, the brighter the screen.
- **Contrast** : Adjusts the contrast of the bright and dark areas of the picture. The closer to 100, the higher the contrast.
- **Brightness** : Adjusts the overall screen brightness. The closer to 100, the brighter the screen.
- **Sharpness** : Adjusts the sharpness of the image. The closer to 50, the sharper and clearer the image.
- **Colour** : Tones down or up the colours displayed on the screen. The closer to 100, the deeper the colour.
- **Tint** : Adjusts the colour balance between red and green displayed on the screen. The closer to Red 50, the more red the colour will be. The closer to Green 50, the more green the colour will be.
- **Colour Temperature** : Adjusts the colour temperature from cold to warm.
- Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

To set advanced controls

(Settings) ⇨ Picture ⇨ Picture Mode Settings ⇨ Advanced Controls / Expert Controls

Calibrates the screen for each picture mode; or adjusts picture settings for a special screen.

- **Dynamic Contrast** : Adjusts the contrast to the optimal level according to the brightness of the image.
- **Dynamic Colour** : Adjusts colours to make the image appear in more natural colours.
- **Preferred Colour** : Adjust the colours of skin, grass and sky to your personal preferences.
- **Gamma** : Sets the gradation curve according to the output of picture signal in relation to the input signal.
- **Colour Gamut** : Selects the range of colours that can be expressed.
- **Edge Enhancer** : Shows clearer and distinctive yet natural edges of the video.
- **Colour Filter** : Filters a specific colour spectrum in RGB colours to fine-tune colour saturation and hue accurately.
- **White Balance** : Adjusts the overall tone of the screen as desired.
- **Colour Management System** : This is a system that experts use when they adjust colour with a test pattern. They can select from six colour areas (Red / Green / Blue / Cyan / Magenta / Yellow) without affecting other colours. For normal images, adjustments may not result in noticeable colour changes.
- Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

To set additional picture options

(Settings) ⇨ Picture ⇨ Picture Mode Settings ⇨ Picture Options

Adjusts detailed setting for images.

- **Noise Reduction** : Eliminates noise in the picture.
- **MPEG Noise Reduction** : Eliminates noise generated while creating digital picture signals.
- **Black Level** : Adjusts the brightness and contrast of the screen to suit the black level of the input picture by using the blackness (black level) of the screen.
- **Real Cinema** : Optimizes the screen for movie viewing.
- **Motion Eye Care** : Automatically adjusts brightness and reduces image blur based on image data to reduce eyestrain.
- Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

Resetting picture settings

(Settings) ⇨ Picture ⇨ Picture Mode Settings ⇨ Picture Reset

Resets picture settings that the user customizes. Each picture mode is reset. Select the picture mode you wish to reset.

To use Energy Saving feature

(Settings) ⇨ Picture ⇨ Energy Saving

Reduces power consumption by adjusting screen brightness.

- **Auto** : [Depending on model]
  The TV sensor detects the ambient lighting and automatically adjusts the screen brightness.
- **Off** : Turns off the Energy Saving mode.
- **Minimum / Medium / Maximum** : Applies the pre-set Energy Saving mode.
- **Screen Off** : Screen is turned off and only sound is played. Press any button except Power button on the remote control to turn the screen back on.
- Depending on the **Energy Saving** (**Auto**/**Maximum**), you may not be able to adjust the **Backlight**.
  In this case, navigate to **(Settings) ⇨ Picture ⇨ Energy Saving** and set to **Off** or **Minimum**.

To use Eye Comfort Mode feature

(Settings) ⇨ Picture ⇨ Eye Comfort Mode

If you turn this option on, colour temperature will be automatically adjusted to reduce eye strain.

- **On** : Automatically adjusts the screen color temperature.
- **Off** : Turns off the **Eye Comfort Mode**.

Capturing the TV screen

(Depending on model)

You can capture your TV screen.

1 Connect the USB device to the USB port on the side or back of the TV.
2 During watch the live broadcast, press the **OK** button. (Only DTV)
3 Press the **SCREEN CAPTURE** button left corner of the screen. (or press the (Red) button on the Remote Control.)
4 Screen-captured image will be saved in connected USB device.
- Applies to digital broadcasting.
- You can view screen-captured images in the **My Media** ⇨ 'Screen Capture' Folder.
- The captured image is saved in the same size as the original image.

Selecting Sound Mode

(Settings) ⇨ Sound ⇨ Sound Mode Settings ⇨ Sound Mode

Adjusts TV audio to an optimal level based on a selected sound mode.

- **Standard** : Optimizes the sound for all types of content.
- **Clear Voice** : Boosts voice clarity from the TV.
- **Music/Bollywood** : [Depending on model] Optimizes the sound for music.
- **Cinema** : Optimizes the sound for cinemas.
- **Soccer/Cricket** : [Depending on model] Optimizes the sound for sports.
- **Game** : Optimizes the sound for gameplay.

Adjusting audio balance

(Settings) ⇨ Sound ⇨ Sound Mode Settings ⇨ Balance

Adjust the volume of the left and right speakers.

Using the Sound Effect function

(Settings) ⇨ Sound ⇨ Sound Mode Settings

The user can select various sound effects.

- **Virtual Surround** : Enjoy an immersive soundscape with the virtual multi-channel surround sound effect.
- **Equalizer** : Set the desired sound by adjusting the equalizer directly.
- **Reset** : Reset the sound effect settings.
- This is only available if **Sound Mode** is set to **Standard**.

To use TV Speaker

(Settings) ⇨ Sound ⇨ Sound Out ⇨ Internal TV Speaker

[Depending on model]

Sound is output through the TV speaker.

To use Headphone

(Settings) ⇨ Sound ⇨ Sound Out ⇨ Wired Headphones

[Depending on model]

Sound is output through the headphone connected to the earphone/ headphone port.

To synchronize audio and video

(Settings) ⇨ Sound ⇨ AV Sync Adjustment

[Depending on model]

Synchronizes video and audio directly when they do not match. If you set **AV Sync Adjustment** to **On**, you can adjust the sound output (TV speakers or External Speaker) to the screen image.

- If you select the **Bypass**, Outputs the broadcast signals or the sound from external devices without any audio delay. The audio may be output before the video because of the time the TV takes to process the video input.

Using Music Catch

[Depending on model]

It is a function you can use to record the music from the TV any time.

1 Connect the USB device to the USB port on the side or back of the TV.
2 During watch the Live broadcast, press the ⦿ **OK** button.
3 Press the **START MUSIC RECORDING** button right corner of the screen.
4 If you want to stop the music recording, press the **STOP MUSIC RECORDING** button.

- If there is not enough remaining space in the USB device, Music Catch may not work properly. To use Music Catch function, you need the USB device which has at least 100 MB.
- Stored files can be viewed in the **My Media** ⇨ 'Music Catch' Folder, and you can open them on your PC or portable devices.
- Recorded files are stored in .wav format.
- If you switch apps or input during recording, recording automatically ends and the recorded files will be saved.
- With the Music Catch function, you can play a music for up to two hours.
- If the USB device is removed by force while music recording, the music recording will not complete properly.

To use SIMPLINK

[Depending on model]

SIMPLINK is a feature that enables you to control and manage various multimedia devices conveniently via the SIMPLINK menu.

1 Connect the TV's **HDMI IN** terminal and the SIMPLINK device's HDMI output terminal using an HDMI cable.
   - [Depending on model]
     For home theatre units with a SIMPLINK function, connect HDMI terminals as above, and use an optical cable to connect Optical Digital Audio Out from the TV to Optical Digital Audio In of the SIMPLINK device.
2 Select ⚙ **(Settings)** ⇨ **General** ⇨ **SIMPLINK**.
   SIMPLINK menu window appears.
3 In SIMPLINK Setting window, set SIMPLINK function to **On**.
4 Configure the **Auto Power Sync** settings to **On** or **Off**.
   - You can also set the SIMPLINK in ⌂ **(HOME)** ⇨ **Inputs** ⇨ **SIMPLINK**. In SIMPLINK menu window, selects the device you want to control.
   - This function is only compatible with devices with the SIMPLINK logo.
   - To use the SIMPLINK function, you need to use a high-speed HDMI® cable (with CEC (Consumer Electronics Control) feature added). High-speed HDMI® cables have the No. 13 pin connected for information exchange between devices.
   - If you switch to another input, the SIMPLINK device will stop.
   - If a third-party device with the HDMI-CEC function is also used, the SIMPLINK device may not work normally.
   - [Depending on model]
     If you select or play media from a the device with a home theatre function, the **HT Speaker(Speaker)** is automatically connected. Be sure to connect with an optical cable (sold separately) to use the **HT Speaker(Speaker)** function.

SIMPLINK function description

- **Direct Play** : Plays the multimedia device on the TV instantly.
- **Controlling devices with the TV remote control** : Manages the multimedia device with the TV remote control.
- **Main Power Off** : If **Auto Power Sync** is set to **On** in the SIMPLINK settings and turn off your TV, the devices connected to your TV via SIMPLINK will also be turned off.
- **Main Power On** : If **Auto Power Sync** is set to **On** in the SIMPLINK settings, turning on a SIMPLINK-linked device will turn the TV on. (Behavior may vary depending on connected device.)
- **Speaker** : [Depending on model]
  Select speaker either on the home theatre unit or the TV.

To set password

⚙ **(Settings)** ⇨ **Safety** ⇨ **Set Password**

Sets or changes the TV password.

The initial password is set to '0000'.

To use Mosquito Away

⚙ **(Settings)** ⇨ **General** ⇨ **Mosquito Away**

[Depending on model]

Mosquito Away makes a sound only mosquitos can hear to make them go away.

Connect the Mosquito Away speaker to your TV to enable this feature. You must use the Mosquito Away speaker to enable this feature.

- Make sure the Mosquito Away jack is connected securely to the port on the TV.

To return Reset to Initial Settings

⚙ **(Settings)** ⇨ **General** ⇨ **Reset to Initial Settings**

All stored information is deleted and TV settings are reset.

The TV turns itself off and back on, and all settings are reset.

- When **Lock System** is in place, a pop-up window appears and asks for password.
- Do not turn off the power during initialization.

To remove the USB device

Select the connected USB HDD from ⌂ **(HOME)** ⇨ **Inputs** and select the **Eject** button to disconnect the USB HDD storage device.

When you see a message that the USB device has been removed, separate the device from the TV.

- Once a USB device has been selected for removal, it can no longer be read. Remove the USB storage device and then re-connect it.

Using a USB storage device - warning

- If the USB storage device has a built-in auto recognition programme or uses its own driver, it may not work.
- Some USB storage devices may not work or may work incorrectly.
- Use only USB storage devices formatted with the Windows FAT32 or NTFS File System.
- For external USB HDDs, it is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 500 mA.
- It is recommended that you use USB memory sticks of 32 GB or less and USB HDDs of 2 TB or less.
- If a USB HDD with power-saving function does not work properly, turn the power off and on. For more information, refer to the user manual of the USB HDD.
- Data in the USB storage device can be damaged, so be sure to back up important files to other devices. Data maintenance is the user's responsibility and the manufacturer is not responsible for data loss.

My Media supporting file

- Maximum data transfer rate: 20 Mbps (Mega bit per second)
- External supported subtitle formats : *.smi, *.srt, *.sub (MicroDVD, SubViewer1.0/2.0), *.ass, *.ssa, *.txt (TMplayer), *.psb (PowerDivX)
- Internal supported subtitle formats: XSUB (Supports internal subtitles generated from DivX6)

Supported Video Formats

- Maximum : 1920 x 1080 @ 30p (Only Motion JPEG 640 x 480 @ 30p)
- .asf, .wmv
  [Video] MPEG-4 Part2, XViD, H.264/AVC, VC1(WMV3, WVC1), MP43
  [Audio] WMA Standard, WMA9(Pro), MP3, AAC, AC3
- .divx, .avi
  [Video] MPEG-2, MPEG-4 Part2, DivX3.11, DivX4, DivX5, DivX6, XViD, H.264/AVC
  [Audio] HE-AAC, LPCM, ADPCM, MPEG- 1 Layer I, MPEG-1 Layer II, Dolby Digital, MPEG-1 Layer III (MP3), *DTS
- .ts, .trp, .tp, .mts, .m2ts
  [Video] H.264/AVC, MPEG-2, H.265/HEVC
  [Audio] MPEG-1 Layer I, MPEG-1 Layer II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, HE-AAC, *DTS
- .vob
  [Video] MPEG-1, MPEG-2
  [Audio] Dolby Digital, MPEG-1 Layer I, MPEG- 1 Layer II, DVD-LPCM
- .mp4, .m4v, .mov
  [Video] MPEG-2, MPEG-4 Part2, DivX3.11, DivX4, DivX5, DivX6, XVID, H.264/AVC
  [Audio] AAC, MPEG-1 Layer III (MP3), *DTS
- .mkv
  [Video] MPEG-2, MPEG-4 Part2, XVID, H.264/AVC
  [Audio] HE-AAC, Dolby Digital, MPEG-1 Layer III (MP3), LPCM, *DTS
- motion JPEG
  [Video] MJPEG
  [Audio] LPCM, ADPCM
- .mpg, .mpeg, .mpe
  [Video] MPEG-1, MPEG-2
  [Audio] MPEG-1 Layer I, MPEG-1 Layer II, Dolby Digital, LPCM
- .dat
  [Video] MPEG-1, MPEG-2
  [Audio] MP2
- .flv
  [Video] Sorenson H.263, H.264/AVC
  [Audio] MP3, AAC, HE-AAC
- *.rm, *.rmvb
  [Video] RV30, RV40
  [Audio] AAC, HE-AAC, RA6(Cook)
- .3gp
  [Video] H.264/AVC, MPEG-4 Part2
  [Audio] AAC, AMR(NB/WB)
- *DTS *.rm / *.rmvb : Depending on model

Supported Audio Formats

- File type : MP3
  [Bit rate] 32 Kbps - 320 Kbps
  [Sample freq.] 16 kHz - 48 kHz
  [Support] MPEG1, MPEG2, Layer2, Layer3
- File Type : AAC
  [Bit rate] Free Format
  [Sample freq.] 8 kHz ~ 48 kHz
  [Support] ADIF, ADTS
- File Type : M4A
  [Bit rate] Free Format
  [Sample freq.] 8 kHz ~ 48 kHz
  [Support] MPEG-4
- File Type : WMA
  [Bit rate] 128 Kbps ~ 320 Kbps
  [Sample freq.] 8 kHz ~ 48 kHz
  [Support] WMA7, WMA8, WMA9 Standard
- File Type : WMA10 Pro
  [Bit rate] ~ 768 Kbps
  [Channel / Sample freq.]
  M0 : up to 2 Channel @ 48 kHz (Except LBR mode),
  M1 : up to 5.1 Channel @ 48 kHz,
  M2 : up to 5.1 Channel @ 96 kHz
  [Support] WMA10 Pro
- File Type : OGG
  [Bit rate] Free Format
  [Sample freq.] 8 kHz ~ 48 kHz
  [Support] OGG Vorbis
- File Type : WAV
  [Bit rate] 64 kbps ~ 1.5 Mbps
  [Sample freq.] 8 kHz ~ 48 kHz
  [Support] LPCM
  [Bit depth] 8 bit / 16 bit / 24 bit

Supported Photo Formats

- Category : 2D (jpeg, jpg, jpe)
  [Available file type]
  SOF0: Baseline,
  SOF1 : Extend Sequential,
  SOF2 : Progressive
  [Photo size]
  Minimum : 64 x 64,
  Maximum (Normal Type) : 15360 (W) x 8640 (H),
  Maximum (Progressive Type) : 1920 (W) x 1440 (H)
- Category : BMP
  [Photo size] Minimum : 64 x 64, Maximum : 9600 x 6400
- Category : PNG
  [Available file type] Interlace, Non-Interlace
  [Photo size]
  Minimum : 64 x 64,
  Maximum (Interlace) : 1200 x 800,
  Maximum (Non-Interlace) : 9600 x 6400
- BMP and PNG format files may be slower to display than JPEG.

To see web manual

To obtain detailed User Guide information, please visit *www.lg.com*.

External control device setup

To obtain the external control device setup information, please visit *www.lg.com*.

Troubleshooting

Cannot control the TV with the remote control.

- Check the remote control sensor on the product and try again.
- Check if there is any obstacle between the product and the remote control.
- Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖).

No image display and no sound is produced.

- Check if the product is turned on.
- Check if the power cord is connected to a wall outlet.
- Check if there is a problem in the wall outlet by connecting other products.

The TV turns off suddenly.

- Check the power control settings. The power supply may be interrupted.
- Check if the **Auto Power Off** (Depending on model) / **Sleep Timer** / **Timer Power Off** is activated in the **Timers** settings.
- If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

When connecting to the PC (HDMI), 'No signal' or 'Invalid Format' is displayed.

- Turn the TV off/on using the remote control.
- Reconnect the HDMI cable.
- Restart the PC with the TV on.

Abnormal Display

- 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.
- This panel is an advanced product that contains millions of 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 color 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 for a prolonged period of time may cause image sticking. Avoid displaying a fixed image on the TV screen for a long period of time.

Generated Sound

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

Audio

Problem	Solution
No sound is produced while images are displaying.	• Press ◿ + or - button. • Check if the sound is muted by pressing **MUTE**. • Scroll to other channels. There may a problem with the broadcast. • Check if the audio cables are connected properly.
One of the speakers produce noises or does not produce sound.	• A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off. • There is no problem with your product.

Video

Problem	Solution
An image displays in black and white or the colour quality is poor.	• Adjust the colour setting in the **PICTURE** menu. • Keep a sufficient distance between this product and other electronic products. • Scroll to other channels. There may a problem with the broadcast.
Horizontal or vertical bars appears or images blur	• 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 **PICTURE** menu.
“No Signal” appears on the screen.	• Check if the signal cable is connected between the TV and products properly. • Check the selected input source by pressing **INPUT**.
Thin lines appear in the background of the screen.	• Check the video cable connections.
The reception on some channels is poor	• Scroll to other channels. There may a problem with the broadcast. • The station signal may be weak. Aim the antenna to the proper direction. • Check if there is local interference such as an electrical appliance or power tool.

Specifications

CI Module[1] (W x H x D)		100.0 mm x 55.0 mm x 5.0 mm
Environment condition	Operating Temperature	0 ℃ to 40 ℃
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 ℃ to 60 ℃
	Storage Humidity	Less than 85 %

1 Only Satellite models.

	Satellite Digital TV (Depending on model)	Digital TV (Depending on Country & Model)	Analogue TV (Depending on Country)
Television system	DVB-S/S2	DVB-T DVB-T/T2*	PAL B/B, PAL B/G, PAL D/K, PAL-I, SECAM B/G, SECAM D/K, NTSC-M
Programme coverage	C-Band, Ku-Band	VHF, UHF	VHF, UHF, CATV
Maximum number of storable programmes	6,000	2,000	
External antenna impedance	75 Ω		

* Only DVB-T2 support models.

	FM RADIO (Only LJ523*)
FM Tuning Range	87.50 to 108.00 MHz
Maximum number of storable programmes	99

	32LJ51**	43/49LJ51** 32/43LJ52**
AC/DC Adapter	Manufacturer : Lien Chang Model : LCAP45 Manufacturer : APD Model : DA-48G19 Manufacturer : Chicony Model : A16-048N2A Manufacturer : LG Innotek Model : PSAC-L655	Manufacturer : Lien Chang Model : LCAP40 Manufacturer : APD Model : DA-65F19 Manufacturer : Chicony Model : A16-065N4A Manufacturer : LG Innotek Model : PSAD-L641
	Input : AC 100 - 240 V ~ 50/60 Hz Output : DC 19 V ⎓ 2.53 A	Input : AC 100 - 240 V ~ 50/60 Hz Output : DC 19 V ⎓ 3.42 A

- The energy information provided with the product is indicated in accordance with the regulations of each country. (Depending on Country)
  - The Energy consumption is measured in accordance with IEC 62087.
- Actual Energy consumption may vary depending on factors such as the type of video content being played and TV settings.

HDMI-DTV supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480	31.46 31.50	59.94 60.00
720 x 480	31.47 31.50	59.94 60.00
720 x 576	31.25	50.00
1280 x 720	37.50 45.00 44.96	50.00 60.00 59.94
1920 x 1080	28.12 33.75 33.72 56.25 67.50 67.43 27.00 26.97 33.75 33.71	50.00 60.00 59.94 50.00 60.00 59.94 24.00 23.97 30.00 29.97

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 (Only 50 Hz / 60 Hz)

HDMI-PC supported mode

(Use HDMI IN 1 for PC mode)

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.46	70.09
720 x 400	31.46	70.08
640 x 480	31.46	59.94
800 x 600	37.87	60.31
1024 x 768	48.36	60.00
1152 x 864	54.34	60.05
1360 x 768	47.71	60.01
1280 x 1024	63.98	60.02
1920 x 1080	67.50	60.00

1 : Except for 32LJ51**, 32LJ52**, 32LJ53**, 32LJ54**

Regulatory

ENGLISH

WARNING!

Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

If your existing television set is being retained and relocated, the same considerations as above should be applied.

Symbols

~	Refers to alternating current(AC).
⎓	Refers to direct current(DC).
⧈	Refers to class II equipment.
⏻	Refers to stand-by.
|	Refer to "ON" (power).
⚡	Refers to dangerous voltage.

Disclaimer (Only LJ525*)

IMPORTANT: Long term effect not tested and mosquitoes may become resistant. Mosquito species used in the test below may differ from the mosquito species of your region. This product is one of the ways to manage mosquitoes and not intended to replace other protective devices against mosquitoes. Some low-level noise may be heard from the TV when the Mosquito Away feature is activated. It is normal and there is no need to be concerned.

(Tested in India)

Test Details:

Tested by International Institute of Biotechnology and Toxicology (IIBAT), India, According to LG internal testing method.

- Test conducted, three times at temperature of 27±2°C and humidity of 60±10%.
- Test used two chambers size 3.5 m x 2.6 m x 2.2 m, the chamber with the LG Mosquito Away TV assumed to be inside ("inside chamber") and the chamber without the LG Mosquito Away TV assumed to be outside ("outside chamber").
- Cages (25 cm^3) are placed inside each chamber, connected using netted sleeves to enable the movement of the mosquitoes from one cage to another.
- One person is placed inside the chamber to attract mosquitoes.
- For each test, 50 lab cultured 3-5 days old mosquitoes were placed in the cage in outside chamber; number of mosquitoes coming into the cage in inside chamber was counted every 10 minutes for 90 minutes under 2 settings:
  - Control setting (Mosquito repelling ultrasonic OFF)
  - Treatment setting (Mosquito repelling ultrasonic ON)

Test Result:

Found to repel on average 76.7% of Aedes aegypti mosquitoes. Repel rate shows percentage of mosquitoes prevented from entering the inside chamber after 90 minutes of Treatment setting compared to Control setting. Represented average of 76.7% derived from 71.2%, 77.9%, 81.0%.

Results may vary in other settings, including but not limited to temperature, humidity, location, space, mosquito species, number of mosquitoes, number of persons, and operation time.

(Tested in Philippines)

Test Details:

Tested by University of the Philippines Los Baños College of Agriculture(UPLB), Philippines, According to LG internal testing method.

- Test conducted, three times at temperature of 30±2°C and humidity of 70±10%.
- Test used two chambers size 4.8 m x 3.6 m x 2.3 m, the chamber with the LG Mosquito Away TV assumed to be inside ("inside chamber") and the chamber without the LG Mosquito Away TV assumed to be outside ("outside chamber").
- Cages (25 cm^3) are placed inside each chamber, connected using netted sleeves to enable the movement of the mosquitoes from one cage to another.
- One person is placed inside the chamber to attract mosquitoes.
- For each test, 50 lab cultured 5-7 days old mosquitoes were placed in the cage in outside chamber; number of mosquitoes coming into the cage in inside chamber was counted every 10 minutes for 90 minutes under 2 settings:
  - Control setting (Mosquito repelling ultrasonic OFF)
  - Treatment setting (Mosquito repelling ultrasonic ON)

Test Result:

Found to repel on average 69.85% of Aedes aegypti mosquitoes. Repel rate shows percentage of mosquitoes prevented from entering the inside chamber after 90 minutes of Treatment setting compared to Control setting. Represented average of 69.85% derived from 67.02%, 70.36%, 72.16%.

Results may vary in other settings, including but not limited to temperature, humidity, location, space, mosquito species, number of mosquitoes, number of persons, and operation time.



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 _____

IN002043