LG
Life's Good

AAA

a X 4
(M4 x L16)
32LJ50**
28MT49**

b X 4
(M4 x L18)
43LJ50**

www.lg.com

English
- Read **Safety and Reference.**
- For the power supply and power consumption, refer to the label attached to the product.
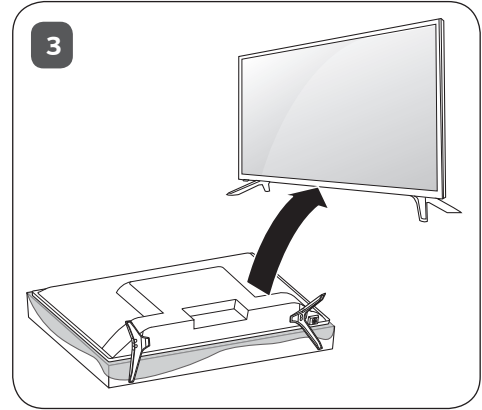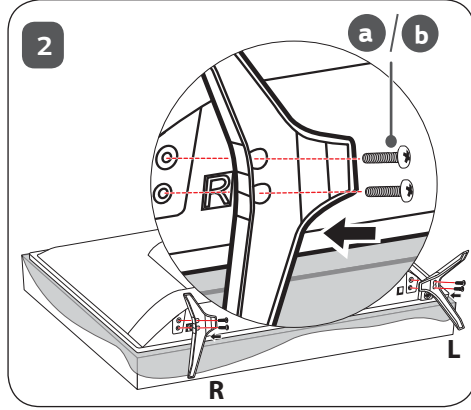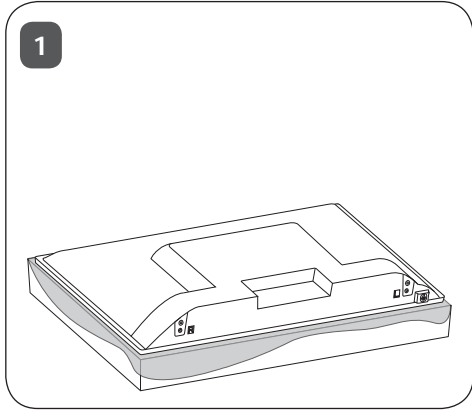
Français
- Lire le document **Sécurité et référence.**
- Reportez-vous à l'étiquette apposée sur le téléviseur pour connaître l'alimentation et la consommation électriques.
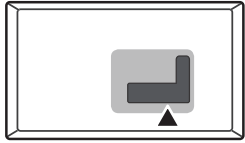
Português
- Consulte o manual **Segurança e referência.**
- No que respeita à fonte de alimentação e ao consumo de energia, consulte a etiqueta mostrada no produto.

العربية
- قراءة **الأمان والمرجع.**
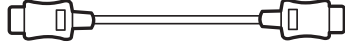- لمعرفة المزيد حول مصدر الإمداد بالطاقة المطلوب ومعايير استهلاك الطاقة، راجع الملصق الموجود على المنتج.

1

2

a / b

R

L

3

ANTENNA/
CABLE IN

HDMI IN

USB IN

COMPONENT IN

VIDEO/Y   P$_B$ P$_R$ L/MONO   AUDIO R

Y   P$_B$ P$_R$ L   R

└─ VIDEO ─┘   └ AUDIO ┘

AV IN

VIDEO/Y   P$_B$ P$_R$ L/MONO   AUDIO R

VIDEO   L/MONO   AUDIO R
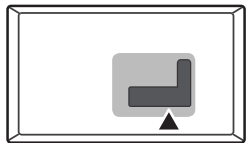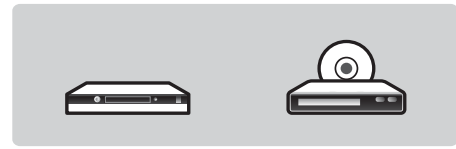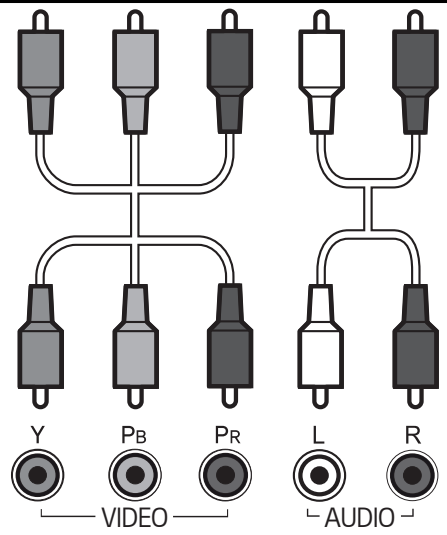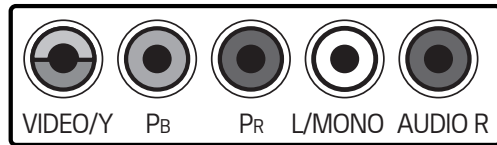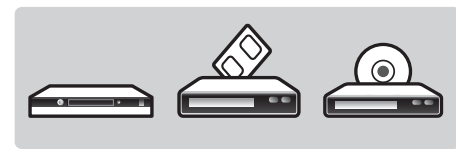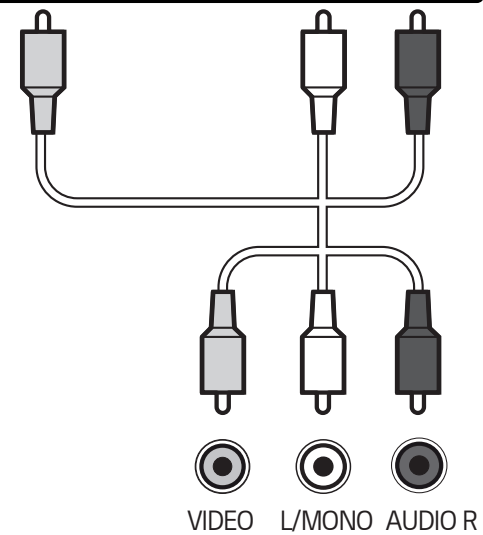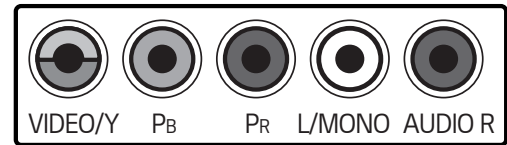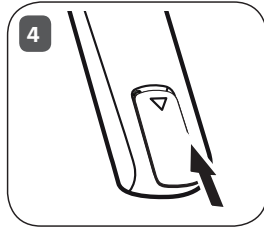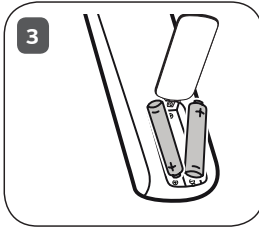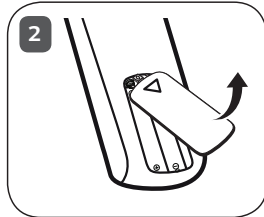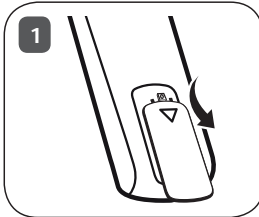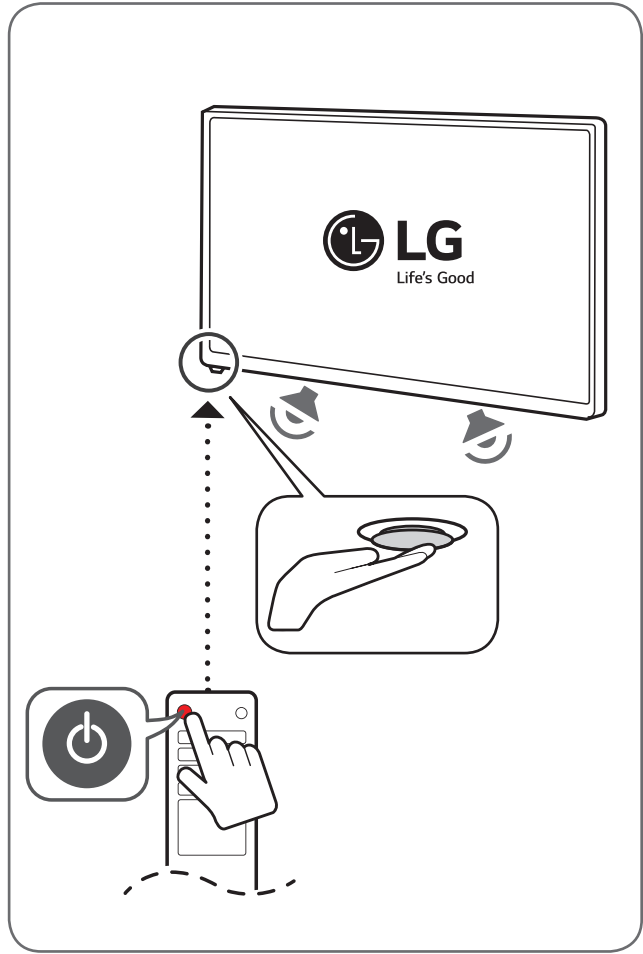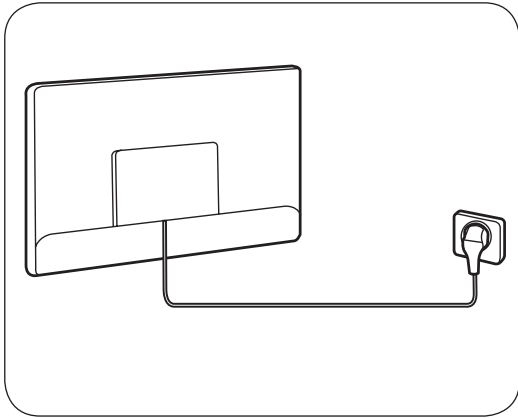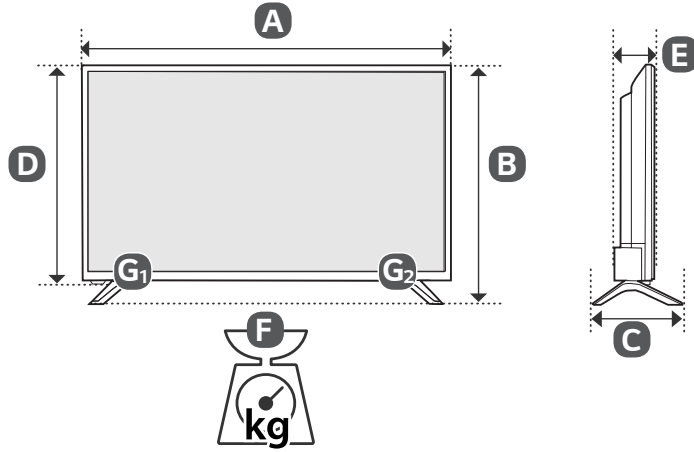
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (kg)	F - (G₁ + G₂) (kg)
32LJ500D-TA	729	474	179.5	436	75.8	3.9	3.8
43LJ500T-TA	968	625	212.0	569	82.3	7.1	6.9
28MT49VF-PT	634	425	180	385	76	3.3	3.2
Power requirement / Alimentation / Requisito de alimentação / متطلبات الطاقة	AC 100-240 V~ 50/60 Hz تیار متردد 100-240 فولت ~ 50 / 60 هرتز						

LG
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.

MFL69715202

Warning! Safety instructions

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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.
- 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.

3

- 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

- 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.
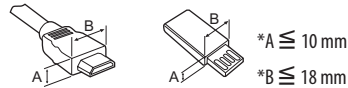
*A ≦ 10 mm
*B ≦ 18 mm

- 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)

- 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.

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.

- 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.
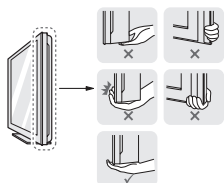
- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.
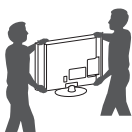
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.
- Do not apply excessive pressure to cause flexing / bending of frame chassis as it may damage screen.
- When handling the TV, be careful not to damage the protruding buttons.

⚠️
- 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.

	Power On / Off (Press)
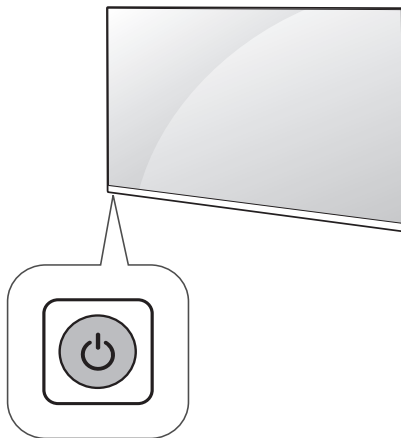
Mounting on a table

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.
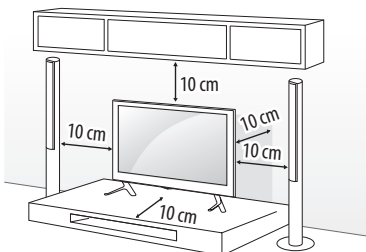
2 Connect the power cord to a wall outlet.

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

Securing the TV to a wall

(This feature is not available for all models.)
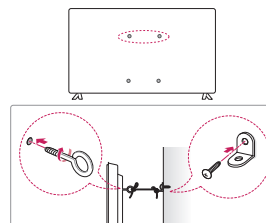
1 Insert and tighten the eye-bolts, or TV brackets and bolts on the back of the TV.
   • If there are bolts inserted at the eye-bolts position, remove the bolts first.
2 Mount the wall brackets with the bolts to the wall.
   Match the location of the wall bracket and the eye-bolts on the rear of the 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.

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

• 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. 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.

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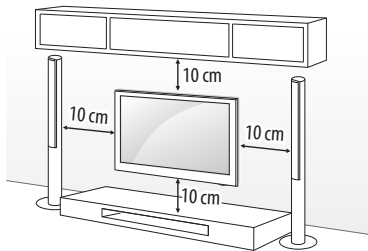
Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Separate purchase (Wall mounting bracket)

Model	32LJ50**	43LJ50**
VESA (A x B) (mm)	100 x 100	200 x 200
Standard screw	M4	M6
Number of screws	4	4
Wall mount bracket	LSW140B	LSW240B MSW240
Model	28MT49**	
VESA (A x B) (mm)	100 x 100	
Standard screw	M4	
Number of screws	4	
Wall mount bracket	RW120	

A
B

⚠ • Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
• Screw length from outer surface of back cover should be under 8 mm. (Only 28MT49**)

Wall mount Pad
Back Cover
Wall mount Pad
Back Cover
Standard screw
: M4 x L10
Max. 8 mm
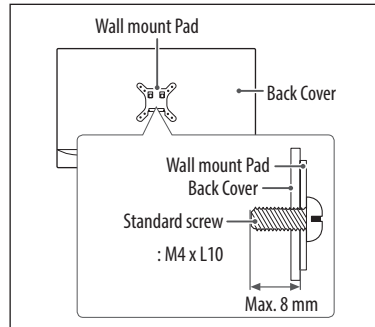
Connections (notifications)

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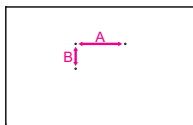
Available external devices are : HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

• 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

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.

- Supported HDMI Audio format :
  AC3(32KHz/44.1KHz/48KHz),
  PCM(32KHz/44.1KHz/48KHz/96KHz)
  (Depending on model)

Remote control

(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.

⚠ • In Analogue TV and some countries, some remote control buttons may not work.

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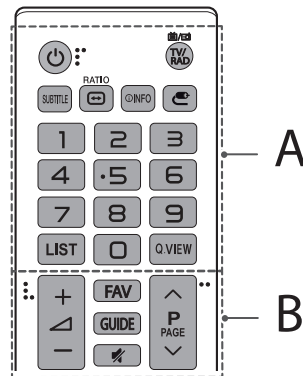
A

(POWER) Turns the TV on or off.

TV/RAD 📺/📻 Selects Radio, TV and DTV programme.

SUBTITLE Recalls your preferred subtitle in digital mode.

RATIO Resizes an image.

INFO Views the information of the current programme and screen.

(INPUT) Changes the input source.

Number buttons Enters numbers.

LIST Accesses the saved programme list.

Q.VIEW Returns to the previously viewed programme.

B

+◁— Adjusts the volume level.
FAV Accesses your favourite programme list.
GUIDE Shows programme guide.
🔇 **(MUTE)** Mutes all sounds.
⌃ **P** ⌄ Scrolls through the saved programmes.
⌃ **PAGE** ⌄ Moves to the previous or next screen.
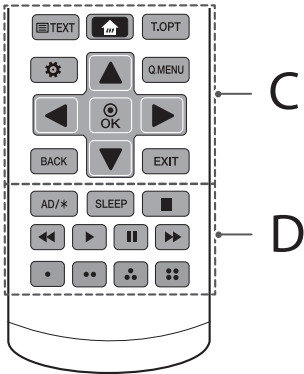
C

Teletext buttons (☰ TEXT, T.OPT) These buttons are used for teletext.
⌂ **(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.
BACK Returns to the previous level.
EXIT Clears on-screen displays and returns to TV viewing.

D

AD/✳ Audio descriptions function will be enabled.
SLEEP Sets the length of time until the TV to turn off.
Control buttons (■, ▶, ❚❚, ◀◀, ▶▶) Controls media contents.
⊙ ⊙⊙ ⊙⊙⊙ ⊙⊙⊙⊙ These access special functions in some menus.

Licenses

ENGLISH

9

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** : [Depending on model]
  Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.
- Depending on input signal, available range of picture modes may differ.

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.
- **Gamma** : Sets the gradation curve according to the output of picture signal in relation to the input signal.
- 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.
- **Digital 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.
- 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 adjust Aspect Ratio

☼ **(Settings)** ⇨ **Picture** ⇨ **Aspect Ratio**
Selects the screen aspect ratio.

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

To use Energy Saving feature

☼ **(Settings)** ⇨ **Picture** ⇨ e⌀ **Energy Saving**
Reduces power consumption by adjusting 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.

To use Picture Test

☼ **(Settings)** ⇨ **Picture** ⇨ **Picture Test**
First of all, start the **Picture Test** to see whether the video signal output is normal, and then select whether there is an error.

If there are no problems in the test, check the connected external device or broadcast signal.

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.
- **News** : Boosts voice clarity from the TV.
- **Music** : [Depending on model] Optimizes the sound for music.
- **Cinema** : Optimizes the sound for cinemas.
- **Soccer** : [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.

- **Treble** : Controls the dominant sounds in the output.
- **Bass** : Controls the softer sounds in the output.
- **Reset** : Reset the sound effect settings.
  - This is only available if **Sound Mode** is set to **Standard**.

To set Auto Volume

☼ **(Settings)** ⇨ **Sound** ⇨ **Auto Volume**
Sets **Auto Volume** to **On**. Varying volume output from programme to programme is automatically adjusted for convenient TV watching when clicking through different programme.

To use Sound Test

☼ **(Settings)** ⇨ **Sound** ⇨ **Sound Test**
Start the **Sound Test** to check that the sound signal output is normal, and then select whether there is an error.

If there are no problems in the test, check the connected external device or broadcast signal.

Using Manual Tuning

☼ **(Settings)** ⇨ **Programmes** ⇨ **Manual Tuning**
Adjusts programmes manually and saves the results.

For digital broadcasting, signal strength and signal quality can be checked.

For analogue broadcasting, you can set up station names and use fine tuning (except for Satellite mode). Normally fine tuning is only necessary if reception is poor.

Editing programmes

☼ **(Settings)** ⇨ **Programmes** ⇨ **Programme Manager**
Edits the saved programmes.

Set as favourite programme, block/unblock programme, skip programme etc. of the selected programme.

To select Programme mode

☼ **(Settings)** ⇨ **Programmes** ⇨ **Programme Mode**
[This feature is available on certain models only.]

This function allows you to watch a tuned programme in **Antenna** or **Cable**.

• You can only watch programmes in the selected mode.

Data Service Function

☼ **(Settings)** ⇨ **Programmes** ⇨ **Data Service**
[This feature is available in certain countries only.]

This function allows users to choose between MHEG (Digital Teletext) and Teletext if both exist at the same time.

If only one of them exists, either MHEG or Teletext is enabled regardless of which option you selected.

To use Signal Test

☼ **(Settings)** ⇨ **Programmes** ⇨ **Signal Test**
[This function is available on certain models or in certain countries only]

Shows the MUX and Service information etc..

Signal test is only available in **Antenna** or **Cable** mode.

To set Language

☼ **(Settings)** ⇨ **General** ⇨ **Language**
You can select the language of the menu displayed on the screen and the digital sound broadcasting.

• **Menu Language** : Selects a language for the display text.
• **Primary Audio Language** / **Secondary Audio Language :**
  [In Digital mode Only][The configurable items differ depending on country.] Selects the desired language when watching digital broadcasting containing several voice languages.
• **Teletext Language** : [In Digital mode Only][The configurable items differ depending on country.] Use the Text language function when two or more Text languages are broadcast.
  • If teletext data in a selected language is not broadcast, the default Text language will be displayed.
  • If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.

Setting the Location

☼ **(Settings)** ⇨ **General** ⇨ **Broadcast Country**
[This feature is available in certain countries only.]

Sets the country that the TV uses.

TV settings are changed according to the broadcast environment of the selected country.

• If the country setting is changed, the **Auto Tuning** information screen may appear.
• In a country that Digital broadcasting regulation isn't fixed, some DTV functions may not work depending on digital broadcasting circumstances.

To set current time

☼ **(Settings)** ⇨ **General** ⇨ **Time & Date**
Checks or changes the time while watching TV.

• **Set Automatically** : Synchronizes the TV clock to the digital time information sent by the TV station.
• **Time / Date / Time Zone** : [Depending on Country] Sets the time and date manually if the auto setup does not correspond to the current time.
• **Custom Time Zone** : [Depending on Country] When select the Custom in Time Zone, Custom Time Zone menu is activated.

To use Sleep Timer

☼ **(Settings)** ➩ **General** ➩ **Timers** ➩ **Sleep Timer**
Turns off the TV after a preset number of minutes.

To cancel the **Sleep Timer**, select **Off**.

To set the TV to turn on and off automatically

☼ **(Settings)** ➩ **General** ➩ **Timers** ➩ **Timer Power On / Timer Power Off**
You can set the Power On/Off time for the TV.

Select **Off** if you are not going to set **Timer Power On** / **Timer Power Off**.

- To use **Timer Power On** / **Timer Power Off**, set the current time correctly.
- Even when the **Timer Power On** function is on, the TV will turn off automatically in 120 minutes when no button is pressed within that time.

To set Auto Power Off

☼ **(Settings)** ➩ **General** ➩ **Timers** ➩ **Auto Power Off**
[This function is available on certain models or in certain countries only]

If you do not press any button on the TV or remote control for a certain period, the TV will automatically switch to standby mode.

- This function does not work on **Store Mode** or while **Software Update**.

Changing the TV Mode

☼ **(Settings)** ➩ **General** ➩ **Home/Store Mode**
Selects **Home Mode** or **Store Mode**.

When in use in home, please select **Home Mode**.

Store Mode is for store display.

To specify Factory Reset

☼ **(Settings)** ➩ **General** ➩ **Reset to Initial Settings**
All stored information is deleted and TV settings are reset.

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.

Requesting service

☼ **(Settings)** ➩ **General** ➩ **About This TV**
For information on requesting service, refer to the TV's menu.

To lock system

☼ **(Settings)** ➩ **Safety** ➩ **Lock System**
Permits only specific programmes by blocking programmes or external input.

First set **Lock System** to **On**.

- **Programme Locks** : Blocks programmes with content inappropriate for children. Programmes can be selected but the screen is blank and the audio is muted. To watch a locked programme, enter the password.
- **TV Rating Locks** : This function operates according to information from the broadcaster. Therefore if the signal has incorrect information, this function does not operate. Prevents children from watching certain adult TV programmes according to the ratings limit set. Enter a password to watch a blocked programme. Ratings differ by country.
- **Input Block** : Block the input sources.

To set password

☼ **(Settings)** ➩ **Safety** ➩ **Set Password**
Sets or changes the TV password.

The initial password is set to '0000'.

To set Subtitle

☼ **(Settings)** ➩ **Accessibility** ➩ **Subtitles**
View subtitles when the TV station provides subtitled programming.

Change **Subtitles** to **On** and select subtitle setting.

- Applies to digital broadcasting.

To set Hard of Hearing

☼ **(Settings)** ➩ **Accessibility** ➩ **Hard of Hearing**
[This feature is available in certain countries only.]

This function is used for the hearing impaired. If it is set to on, the subtitle is displayed by default.

To set Audio Description

☼ **(Settings)** ➩ **Accessibility** ➩ **Audio Description**
This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio. When **Audio Description** is selected **On**, basic audio and Audio Description are provided only for those programmes that have Audio Description included.

To use My Media

Connect the USB storage device to the TV's **USB IN** terminal.

Selects a file from the list. Displays the file that you choose.

Sets play related settings by checking option during disk playback.

To remove the USB device

Q.MENU ⇨ USB Device
Select a USB storage device that you want to remove.

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

- External supported subtitle formats : .srt (SubRip), .ass/.ssa (SubStation Alpha), .smi (SAMI), .sub (SubViewer[1], MicroDVD, DVDsubtitleSystem, SubIdx(Vobsub)), .txt (TMplayer)
- Internal supported subtitle formats: .dat/.mpg/.mpeg/.vob (DVD Subtitle), .ts/.trp/.tp (DVB Subtitle), .mp4 (DVD Subtitle, UTF-8 Plain Text), .mkv (ASS, SSA, UTF-8 Plain Text, VobSub, DVD Subtitle), .avi (XSUB, XSUB+)
1 SubViewer : Supports subtitles generated SubViewer 1.0 & 2.0 Only

Supported Video Formats

- Maximum : 1920 x 1080 @ 30p (Only Motion JPEG 640 x 480 @ 30p)
- .mpg, .mpeg
  [Video] MPEG-1, MPEG-2
  [Audio] MPEG1/2 Layer3, AC3, AAC, LPCM
- .avi
  [Video] MJPEG, MPEG-4, H.263, XVID, H.264
  [Audio] MPEG1/2 Layer3, AC3, AAC, LPCM
- .ts
  [Video] MPEG-2, H.264
  [Audio] MPEG1/2 Layer3, AC3, AAC, LPCM
- .mov, .mkv
  [Video] MPEG-4, H.263, H.264
  [Audio] MPEG1/2 Layer3, AC3, AAC, LPCM
- .dat
  [Video] MPEG-1
  [Audio] MPEG1/2 Layer3, AC3, AAC, LPCM
- .mp4
  [Video] MPEG-4, H.264, MPEG-1, MPEG-2
  [Audio] MPEG1/2 Layer3, AC3, AAC, LPCM
- .vob
  [Video] MPEG-2
  [Audio] MPEG1/2 Layer3, AC3, AAC, LPCM

Supported Audio Formats

- File type : .mp3
  [Bit rate] 32 Kbps - 320 Kbps
  [Sample rate] 16 kHz - 48 kHz
  [Support] MPEG1/2 Layer3
- File Type : .ac3
  [Bit rate] 32 Kbps - 640 Kbps
  [Sample rate] 32 KHz, 44.1 KHz, 48 KHz
  [Support] AC3
- File Type : .m4a/.aac
  [Sample rate] 8 kHz - 48 kHz
  [Support] AAC
- File Type : .flac
  [Bit rate] <1.6 Mbps
  [Sample rate] 8 kHz - 48 kHz
  [Support] FLAC
- File Type : .wav
  [Bit rate] 64 Kbps ~ 1.5 Mbps
  [Sample rate] 8 kHz - 48 kHz
  [Support] PCM
- When moving to a folder containing videos while playing music, the music may stop playing.

Supported Photo Formats

- Category : .jpg
  [Available file type]
  Progressive JPEG
  [Photo size]
  Minimum : 2 (W) x 2 (H),
  Maximum : 1024 (W) x 768 (H)
- Category : .jpeg
  [Available file type]
  Baseline JPEG
  [Photo size]
  Minimum : 2 (W) x 2 (H),
  Maximum : 15360 (W) x 8640 (H)
- Category : .bmp
  [Available file type]
  BMP
  [Photo size]
  Minimum : 2 (W) x 2 (H),
  Maximum : 9600 (W) x 6400 (H),
  [Pixel Depth] 1/4/8/16/24/32 bpp
- Category : .png
  [Available file type]
  Interlace, Non-Interlace
  [Photo size]
  Minimum : 2 (W) x 2 (H)
  Maximum (Interlace) : 1200 (W) x 800 (H),
  Maximum (Non-Interlace) : 9600 (W) x 6400 (H),
- BMP and PNG format files may be slower to display than JPEG.

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 ($\oplus$ to $\oplus$, $\ominus$ to $\ominus$).

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.

Specifications

Environment condition	Operating Temperature	0 ℃ to 40 ℃
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 ℃ to 60 ℃
	Storage Humidity	Less than 85 %

	Digital TV (Depending on Country & Model)	Analogue TV (Depending on Country)
Television system	DVB-T/T2	PAL B/G, PAL D/K, PAL-I, SECAM-B/G, SECAM-D/K, NTSC-M
Programme coverage	VHF, UHF	VHF, UHF, CATV
Maximum number of storable programmes	600	200
External antenna impedance	75 Ω	

- 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 480p	31.47 31.5	59.94 60.00
720 x 480p	31.47 31.50	59.94 60.00
1280 x 720p	44.96 45.00	59.94 60.00
720(1440) x 480i	15.73 15.75	59.94 60.00
720 x 576p	31.25	50.00
1280 x 720p	37.5	50.00
720(1440) x 576i	15.63	50.00
1920 x 1080i	28.125 33.72 33.75	50.00 59.94 60.00
1920 x 1080p	26.97 27.00 33.716 33.75 56.25 67.432 67.50	23.976 24.00 29.976 30.00 50.00 59.94 60.00

HDMI-PC supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 400	31.469	70
640 x 480	31.469	59.940
800 x 600	35.156 37.879	56.250 60.317
1024 x 768	48.363	60.004
1280 x 720	45.0	60
1280 x 768	47.776	59.870
1 1366 x 768	49.1	60
1280 x 960	60.0	60
1280 x 1024	63.9	60
1280 x 800	49.5	59.8
1680 x 1050	65.2	59.9
1920 x 1080	67.5	60

1 : Only 43LJ50**

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	0
480p / 576p	0
720p / 1080i	0
1080p	0 (Only 50 Hz / 60 Hz)

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480i	15.73	60.00
720 x 480p	31.50	60.00
1440 x 576i	16.63	50.00
720 x 576p	31.50	50.00
1280 x 720p	37.50 45.00	50.00 60.00
1920 x 1080i	28.13 33.75	50.00 60.00
1920 x 1080p	56.25 67.50	50.00 60.00

Regulatory

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

$\sim$	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.

LG
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 _____