



OWNER'S MANUAL

Safety and Reference

804106588

* LG LED TV applies LCD screen with LED backlights.

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

43NANO75UPA	55NANO75UPA	65NANO75UPA	70NANO75UPA	86NANO75UPA
50NANO75UPA	55NANO77ZPA	65NANO77ZPA	75NANO75UPA	86NANO85APA
50NANO77ZPA	55NANO80UPA	65NANO80UPA	75NANO80UPA	86NANO90UPA
50NANO80UPA	55NANO85APA	65NANO85APA	75NANO85APA	
50NANO85APA	55NANO90UPA	65NANO90UPA	75NANO90UPA	

Important Safety Instruction

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.



By using this product, you agree that all disputes between you and LG arising out of or relating in any way to this product (including but not limited to warranty disputes) shall be resolved exclusively through binding arbitration on an individual basis. The terms of the arbitration agreement (including details on the procedure for resolving disputes) is available at www.lg.com/us/arbitration (USA) or www.lg.com/ca_en/arbitration (Canada).

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2 Preparing

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- Antenna/Cable

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- Registering Magic Remote Control

Before reading this manual

- Read this manual thoroughly before operating your TV, and keep it for future reference.
- On the website you can download the manual including installation, using, troubleshooting, specifications, license etc and view its contents on your PC or mobile device.

User Guide	For more information about this TV, read the USER GUIDE embedded in the product. (Depending upon model)
	• To open the USER GUIDE (Ⓢ) → (i) → [Support] → [User Guide]

Optional Extras

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

● Note	<ul style="list-style-type: none"> Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions. The items supplied with your product may vary depending upon the model. Image shown may differ from your TV.
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1 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.

The 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.

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

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

TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

Do not place the TV and/or remote control in the following environments:

- Keep the product away from 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.
- Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).
- Near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.
- Do not install in excessively dusty places.

Otherwise, this may result in fire, electric shock, combustion/explosion, malfunction or product deformation.

Ventilation

- Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase.
- Do not install the product on a carpet or cushion.
- Do not block or cover the product with cloth or other materials while unit is plugged in.
- Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.

- 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 device.
- Do not move the TV whilst the Power cord is plugged in.
- Do not use a damaged or loosely fitting power cord.
- Be sure to grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.
- Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock.

Disconnecting the Device from the Main Power

- The power plug is the disconnecting device. In case of an emergency, the power plug must remain readily accessible.

- Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.
- Outdoor Antenna Grounding** (Can differ by country):
 - If an outdoor antenna is installed, follow the precautions below.

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur. Be sure the antenna system is grounded to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

Antenna grounding according to the National Electrical Code, ANS/NFPA 70

- Grounding** (Except for devices which are not grounded.)
 - TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet. Ensure that you connect the earth ground wire to prevent possible electric shock.

Never touch this apparatus or antenna during a lightning storm. You may be electrocuted.

Make sure the power cord is connected securely to the TV and wall socket if not secured damage to the Plug and socket may occur and in extreme cases a fire may break out.

- Do not insert metallic or inflammable objects into the product. If a foreign object is dropped into the product, unplug the power cord and contact the customer service.
- Do not touch the end of the power cord while it is plugged in. You may be electrocuted.

If any of the following occur, unplug the product immediately and contact your local customer service.

- The product has been damaged.
- If water or another substance enters the product (like an AC adapter, power cord, or TV).
- If you smell smoke or other odors coming from the TV
- When lightning storms or when unused for long periods of time.

Even the TV is turned off by remote control or button, AC power source is connected to the unit if not unplugged in.

- Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.
- Do not attempt to modify this product in any way without written authorization from LG Electronics. Accidental fire or electric shock can occur. Contact your local customer service for service or repair. Unauthorized modification could void the user's authority to operate this product.
- Use only an authorized attachments / accessories approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction, or product damage.
- Never disassemble the AC adapter or power cord. This may result in fire or electric shock.

Handle the adapter carefully to avoid dropping or striking it. An impact could damage the adapter.

- To reduce the risk of fire or electrical shock, do not touch the TV with wet hands. If the power cord prongs are wet or covered with dust, dry the power plug completely or wipe dust off.

Batteries

- Store the accessories (battery, etc.) in a safe location out of the reach of children.
- Do not short circuit, disassemble, or allow the batteries to overheat. Do not dispose of batteries in a fire. Batteries should not be exposed to excessive heat.
- Caution: Risk of fire or explosion if the battery is replaced by an incorrect type.

Moving

- When moving, make sure the product is turned off, unplugged, and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press or put stress on the front panel of the TV. Otherwise, this may result in product damage, fire hazard or injury.

- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
- Do not allow an impact shock, any objects to fall into the product, and do not drop anything onto the screen.
- Do not press strongly upon the panel with a hand or a sharp object such as a nail, pencil, or pen, or make a scratch on it. It may cause damage to screen.

Cleaning

- When cleaning, unplug the power cord and wipe gently with a soft/dry cloth. Do not spray water or other liquids directly on the TV. Do not clean your TV with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol etc., which can damage the product and/or its panel. Otherwise, this may result in electric shock or product damage.

2 Preparing

Lifting and moving the TV

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

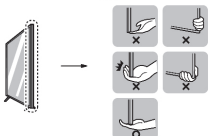
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.

- 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 grille area.

- Use at least two people to move a large TV.
- When transporting the TV by hand, hold the TV as shown in the following illustration.

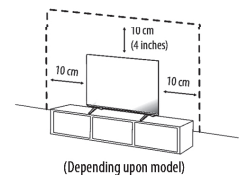
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright; never turn the TV on its side or tilt towards the left or right.
- When handling the TV, be careful not to damage the protruding buttons.



- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not place the product on the floor with its front facing down without padding. Failure to do so may result in damage to the screen.
- 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.

Mounting on the Table

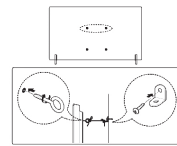
- Lift and tilt the TV into its upright position on a table.
 - Leave a minimum of 10 cm (4 inches) space from the wall for proper ventilation.
- Connect the power cord to a wall outlet.



- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage 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.
- Do not use any unapproved items to ensure the safety and lifespan of the product.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- Make sure that the screws are fastened tightly. (If they are not fastened securely enough, the TV may tilt forward after being installed.)
- Do not fasten the screws with excessive force otherwise they may strip and become loose.

Securing TV to the Wall (Wall mount kit not supplied)

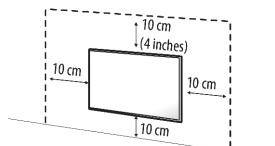
- Insert and tighten the eye-bolts or TV brackets and bolts on the back of the TV.
 - If there are bolts inserted at the eye-bolts position, remove the bolts first.
- Mount the wall brackets with the bolts to the wall. Match the location of the wall bracket and the eye-bolts on the rear of the TV.
- Connect the eye-bolts and wall brackets tightly with a sturdy rope or cable. Make sure to keep the rope parallel to the flat surface.
 - Use a platform or cabinet that is strong and large enough to support the TV securely.



(Depending upon model)

Mounting to the Wall (Mount kit not supplied)

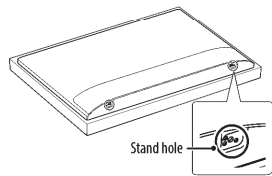
An optional wall mount can be used with your LG Television. Consult with your local dealer for a wall mount that supports the VESA standard used by your TV model. Carefully attach the wall mount bracket at the rear of the TV. Install the wall mount bracket on a solid wall perpendicular to the floor. If you are attaching the TV to other building materials, please contact qualified personnel to install the wall mount. Detailed instructions will be included with the wall mount. We recommend that you use an LG brand wall mount. The LG wall mount is easy to adjust or to connect the cables. When you do not use LG's wall mount bracket, use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices. If you are using a non-adjustable mount, attach the mount to the wall. Attach the cables to the TV first, then attach the TV to the mount.



(Depending upon model)



- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- For more information of screws and wall mount bracket, contact a service center.
- 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.
- When mounting a TV on the wall, make sure not to install the TV by hanging the power and signal cables on the back of the TV.
- 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.



(Depending upon model)

Wall Mounting Bracket

(Depending upon model)

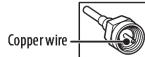
Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Model	43/50NANO75* 50NANO77* 50NANO80* 50NANO85*	55/65NANO75* 55/65NANO77* 55/65NANO80* 55/65NANO85* 55NANO90*	65NANO90*	Model	75NANO80* 75NANO85* 75NANO90*	86NANO85* 86NANO90*
Screws distance (A) (mm)	200	300	400	Screws distance (A x B) (mm)	1,281 x 125	1,586 x 125
Standard screw	M6	M6	M6	Standard screw	M8	M8
Number of screws	2	2	2	Number of screws	4	4
Wall mount bracket	WB21LMB	WB21LMB	WB21LMC	Wall mount bracket	WB21LGB	WB21LGB

Model	43/50NANO75* 50NANO77* 50NANO80* 50NANO85*	55NANO75* 55NANO77* 55NANO80* 55NANO85* 55NANO90*	65NANO75* 65NANO77* 65NANO80* 65NANO85*	70/75NANO75* 75NANO80* 75NANO85* 65/75NANO90*	86NANO75* 86NANO85* 86NANO90*
VESA (A x B) (mm)	200 x 200	300 x 300	300 x 300	400 x 400	600 x 400
Standard screw	M6	M6	M6	M6	M8
Number of screws	4	4	4	4	4
Wall mount bracket	LSW240B MSW240	OLW480B MSW240	OLW480B	LSW440B	LSW640B

Antenna/Cable

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



- Make sure not to bend the copper wire of the RF cable.
- Complete all connections between devices, and then connect the power cord to the power outlet to prevent damage to your TV.
- Use a signal splitter to use 2 TVs or more.
- DTV Audio Supported Codec: MPEG, Dolby Digital
- This TV cannot receive Ultra HD (3840 x 2160 pixels) broadcasts directly because the related standards have not been confirmed.

3 Starting TV

Turning on the TV

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



Using button

Power On (Press) Power Off ¹⁾ (Press and Hold) Menu Control (Press ²⁾) Menu Selection (Press and Hold ³⁾)	<ol style="list-style-type: none"> All running apps will close. You can access and adjust the menu by pressing the button when TV is on. You can use the function when you access menu control.
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- Note
 - When the TV is turned on for the first time after being shipped from the factory, initialization of the TV may take approximately one minute.

Adjusting the menu

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

Turns the power off.	Changes the input source.
Adjusts the volume level.	Scrolls through the saved channels.

- Note
 - 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 device must be easily accessed to a location outlet near the access. Some devices are not made by turning on / off button, turning off the device and unplugging the power cord.

Inserting the battery (not supplied)

When the message [Magic Remote battery is low. Please change the battery.] is displayed, replace the batteries.

To install batteries, open the battery cover, replace batteries (1.5 V AA) 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.



- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.
- Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution.
- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.
- Batteries inside or inside the product shall not be exposed to excessive heat such as sunshine, fire or the like.

Registering Magic Remote Control

How to register the Magic Remote Control

To use the Magic Remote, first pair it with your TV.

- Put batteries into the Magic Remote and turn the TV on.
- Point the Magic Remote at your TV and press the (OK) on the remote control.

* If the TV fails to register the Magic Remote, try again after turning the TV off and back on.

How to deregister the Magic Remote Control

Press the (Back) and (Home) buttons at the same time, for five seconds, to unpair the Magic Remote with your TV.

* Press and hold the (Home) and (Q, Settings) buttons for more than 5 seconds to disconnect and re-register the Magic Remote at the same time.

- Note
 - It is recommended that an Access Point (AP) be located more than 0.2 m (0.65 ft) away from the TV. If the AP is installed closer than 0.2 m (0.65 ft), the Magic remote control may not perform as expected due to frequency interference.































4 Using Remote Control

Using Magic Remote Control

(Depending upon model)

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

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

	Power Turns the TV on or off.		Number buttons Enters numbers. Accesses the [Quick Help].
	(Dash) Inserts a — between numbers such as 2-1 and 2-2.		More actions Displays more remote control functions.
	Accesses the [Guide].		SAP (Secondary Audio Program) feature can also be enabled by pressing the  button.
	Accesses the [Edit Quick Access].		Mute Mutes all sounds.
	- [Edit Quick Access] is a feature that allows you to enter a specified app or Live TV directly by pressing and holding the number buttons.		Mute Accesses the [Accessibility] menu.
	Volume buttons Adjusts the volume level.		Voice recognition Network connection is required to use the voice recognition function.
	Channel buttons Scrolls through the saved channels.		Check for recommended content. (Some recommended services may not be available in some countries.)
	Home Accesses the Home menu.		Voice recognition Speak while pressing and holding the button to use the voice recognition feature.
	Home Launches the last used apps.		Up/Down/Left/Right Press the up, down, left or right button to scroll the menu. If you press  buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.
	Input Changes the input source.		Q. Settings Accesses the Quick Settings.
	Input Accesses the [Home Dashboard].		Q. Settings Displays the [All Settings] menu.
	Wheel (OK) Press the center of  button to select a menu. You can change channels by using  button.		These access special functions in some menus.
	Wheel (OK) Accesses the [Magic Explorer]. You can run the [Magic Explorer] feature when the pointer color changed to purple. If watching a channel, press and hold down the pointer onto the video. When using [TV Guide], [Settings], [Sports Alert], or [Art Gallery], press and hold down on the text.		Streaming Service buttons Connects to the Video Streaming Service.
	Back Returns to the previous level.		
	Back Clears on-screen displays and returns to last input viewing.		

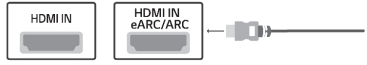



(Some buttons and services may not be provided depending upon models or regions.)

- Note **** To use the button, press and hold for more than 1 second.**

The remote control vary depend of model: The buttons on the remote control may have a different name or location than the remote control shows in this manual.

5 Connections

You can connect various external devices to the TV. For more information on external device's connection, refer to the manual provided with each device.

HDMI	<ul style="list-style-type: none">When connecting the HDMI cable, the product and external devices should be turned off and unplugged. <div data-bbox="273 1245 621 1306">  </div> <ul style="list-style-type: none">Supported HDMI Audio format (Depending upon model): <ul style="list-style-type: none">True HD (48 kHz), Dolby Digital / Dolby Digital Plus (32 kHz / 44.1 kHz / 48 kHz), PCM (32 kHz / 44.1 kHz / 48 kHz / 96 kHz / 192 kHz)
	<ul style="list-style-type: none">If the device connected to Input Port also supports HDMI Deep Color, your picture may be clearer. However, if the device doesn't support it, it may not work properly. In that case, change the TV's [HDMI Deep Color] setting to off. <ul style="list-style-type: none">This feature is available only on certain models which support HDMI Deep Color.  →  → [General] → [Devices] → [HDMI Settings] → [HDMI Deep Color] (Except for 86NANO75*, NAN085*, NANO90*) <ul style="list-style-type: none">On: Support 4K @ 50/60 Hz (4:4:4, 4:2:2, 4:2:0) Off: Support 4K @ 50/60 Hz (4:2:0) (Only 86NANO75*, NAN085*, NANO90*) <ul style="list-style-type: none">On: Support 4K @ 50/60 Hz (4:4:4, 4:2:2, 4:2:0), <3, 4 port Only> 4K @ 100/120 Hz (4:4:4, 4:2:2, 4:2:0) Off: Support 4K @ 50/60 Hz (4:2:0) <ul style="list-style-type: none">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 (3 m (9.84 feet) or less) <ul style="list-style-type: none">Ultra High Speed HDMI®/™ cable


- Note
 - For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm (0.39 inches) thick, 18 mm (0.7 inches) width and 8 mm (0.31 inches) a wire diameter. (Depending upon model)
 - Use an extension cable that supports USB 2.0 if the USB cable or USB flash drive does not fit into your TV's USB port.




* A ≦ 10 mm (0.39 inches)


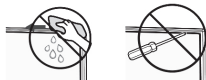
* B ≦ 18 mm (0.7 Inches)

* C ≦ 8 mm (0.31 Inches)

External Devices	Supported external devices are: Blu-ray player, HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices. For more information on external device's connection, refer to the manual provided with each device.
	<ul style="list-style-type: none">If you record a TV program on a Blu-ray/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 about recording, refer to the manual provided with the connected device. The external device connections shown may differ slightly from illustrations in a manual. Connect external devices to the TV regardless about the order of the TV port. If you connect a gaming device to the TV, use the cable supplied with the gaming device. Refer to the external equipment's manual for operating instructions. 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. Depending upon the graphics card, some resolution settings may not allow the image to be positioned on the screen properly. Some USB Hubs may not work. If a USB device connected through a USB Hub is not detected, connect it directly to the USB port on the TV. When connecting via a wired LAN, it is recommended to use a CAT 7 cable. The TV may be capable of operating without a set-top-box from a multichannel video programming distributor (MVPD).

Remote RS-232C setup	To obtain the RS-232C external control setup information, please visit www.lg.com . Download and read the manual. (Depending upon model).
	<ul style="list-style-type: none">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. 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.

6 Troubleshooting

Cannot control the TV with the remote control.	<ul style="list-style-type: none">Check if anything such as tape has been placed over the receiver. Check if there is any obstacle between the product and the remote control. Replace the batteries with new fresh ones.
No image display and no sound is produced.	<ul style="list-style-type: none">Check if the product is turned on. Check if the power cord is connected to a wall outlet. Check if there is a problem in the wall outlet by connecting other products.
The TV turns off suddenly.	<ul style="list-style-type: none">Check the power control settings. The power supply may be interrupted. Check if the auto-off function is activated in the settings menu. If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.
Abnormal Display	<ul style="list-style-type: none">If the TV feels cold to the touch, there may be a small flicker when it is turned on. This is normal; there is nothing wrong with TV. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV's performance. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen. This panel is an advanced product that contains millions of pixels. In a very few cases, you could see fine dots on the screen while you're viewing the TV. Those dots are deactivated pixels and do not affect the performance and reliability of the TV. Displaying a still image for a prolonged period of time may cause an image sticking. Avoid displaying a fixed image on the TV screen for a extended length of time.
Generated Sound	<ul style="list-style-type: none">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 upon the product. This generated sound does not affect the performance and reliability of the product.
	<ul style="list-style-type: none">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 upon model). 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. <div data-bbox="1289 1251 1485 1326">  </div>

7 Specifications

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

Estimated yearly energy consumption indicated on the FTC label is measured in accordance with the Test Procedures for Television Sets (USA only).

The actual energy consumption depends on the usage environment (The content watched, TV settings, etc.).

- For information of the power supply and power consumption, refer to the label attached to the product.
 - The typical power consumption is measured in accordance with IEC 62087 or each country's energy regulations.
 - * On some models, the label is inside the external device connection terminal cover.
 - * Depending upon the model or country, the typical power consumption may not be en label.

(Depending upon country)		
	Broadcasting Specifications	
Television system	ATSC, NTSC-M, 64 & 256 QAM	
Channel coverage (Band)	VHF 2-13, UHF 14-69, D/T 2-69, CATV 1-135, CADTV 1-135	
External antenna impedance	75 Ω	
(Only 86NANO75*, NAN085*, NANO90*)		
	Wireless module(LG5BWAC95)Specifications	
	Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency range		Output Power (Max.)
2,400 to 2,483.5 MHz		18.5 dBm

5,150 to 5,725 MHz		18 dBm
5,725 to 5,850 MHz		18 dBm
	Bluetooth	
Frequency range		Output Power (Max.)
2,400 to 2,483.5 MHz		9 dBm

As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.

For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the device and the body.

FCC ID: BEJLGSBWAC95 / IC: 2703H-LGSBWAC95

(Except for 86NANO75*, NAN085*, NANO90*)		
	Wireless module(LGSBWAC03)Specifications	
	Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency range		Output Power (Max.)
2,400 to 2,483.5 MHz		20 dBm
5,150 to 5,725 MHz		18.5 dBm
5,725 to 5,850 MHz		18 dBm
	Bluetooth	
Frequency range		Output Power (Max.)
2,400 to 2,483.5 MHz		9 dBm

As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.

For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the device and the body.

FCC ID: BEJLGSBWAC03 / IC: 2703H-LGSBWAC03

	Environment condition	
Operating Temperature		0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity		Less than 80 %
Storage Temperature		-20 °C to 60 °C (-4 °F to 140 °F)
Storage Humidity		Less than 85 %

8 Regulatory

FCC NOTICE

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radio Frequency Interference Requirements (for UNII devices)

High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device. This device cannot be co-located with any other transmitter.

FCC RF Radiation Exposure Statement

(For having wireless function (WLAN, Bluetooth,...))

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

NOTE TO CABLE/TV INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

WARNING! (STABILITY HAZARD)

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:

- ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the television set.
- ALWAYS use furniture that can safely support the television set.
- ALWAYS ensure the television set is not overhanging the edge of the supporting furniture.
- ALWAYS educate children about the dangers of climbing on furniture to reach the television set or its controls.
- ALWAYS route cords and cables connected to your television so they cannot be tripped over, pulled or grabbed.
- NEVER place a television set in an unstable location.
- NEVER place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- NEVER place the television set on cloth or other materials that may be located between the television set and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the television or furniture on which the television is placed.

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

Symbols

	Refers to alternating current (AC).		Refers to stand-by.
	Refers to direct current (DC).		Refers to "ON" (power).
	Refers to class II equipment.		Refers to dangerous voltage.

LG Take-back & Recycling Policy

LG Electronics offers a customized e-waste take-back & recycling service that meets local needs and requirements in the countries where e-waste regulations are in place, and also provides product take-back & recycling service voluntarily in some regions. LG Electronics evaluates products' recyclability at the design step selectively, with the goal of improving recyclability where practicable. Through these activities, LG Electronics seeks to contribute to conserving natural resources and protecting the environment. For more information, please visit our global site at <https://www.lg.com/recycling>

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 <https://opensource.lge.com>. In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

Licenses



REFURBISHED PRODUCT LIMITED NINETY DAYS WARRANTY

The *Refurbished Product Service Center* offers the following WARRANTY to the ORIGINAL purchaser of a product which we have refurbished.

This product that has been refurbished is warranted against any electronic or mechanical defects for a period of NINETY DAYS from the date of the original purchase by the consumer. Since this unit was sold as a refurbished item, the warranty does not apply to any cosmetic appearance items such as scratches. Should a defect occur, the *Refurbished Product Service Center* will repair or, at its option, replace defective unit/parts with new or rebuilt materials without charge for either parts or labor. Replacement unit/parts will be warranted for the remaining portion of the original warranty period.

This warranty does not cover installation or damage from accident, misuse, abuse, improper wiring, incorrect voltage, operating the unit against the instructions in the owner's manual or any product which has been opened, altered, or tampered with.

This warranty does not cover costs for removal and or installation of the unit for repair. Under no circumstances shall the service center be liable for any special, incidental or consequential damages or for any other expenses incurred by reason of use or sale of this product. This warranty is in lieu of any other warranties expressed or implied warranty of merchantability of fitness for particular use or otherwise.

This warranty gives the consumer specific legal rights and they may also have other rights which vary from State to State. Some States do not follow the exclusion or limitation of incidental or consequential damages, hence the above exclusion and limitations may not apply.

Refurbished Product Service Center
13225 Marquardt Avenue Santa Fe Springs, CA 90670.

WARRANTY REPAIR INFORMATION

If you need service on your unit and this product requires repair during the 90 days warranty period; please go to **www.ConsumerServiceRefurbish.com** or call the *Refurbished Product Service Center* at 562-946-3531 to obtain the required re-utur authorization (RA) number. Pack the unit properly (the original carton is ideal for this purpose) along with a copy of your purchase receipt and a letter describing the problem. Send the unit freight prepaid and insured to:

Refurbished Product Service Center,
Att: Customer Service Department 13225 Marquardt Avenue Santa Fe Springs, CA 90670

Your unit will be promptly repaired and returned to you. We will refuse to accept delivery of the returned unit unless the assigned RA number appears on the outside of the shipping carton.

	Owner's Information (Keep for your permanent records)
NAME: _____	
ADDRESS: _____	
CITY: _____ STATE: _____ ZIP CODE: _____	
PHONE: _____ E-MAIL: _____	
MODEL: _____ SERIAL NO.: _____	

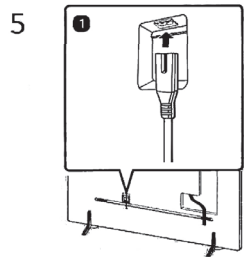
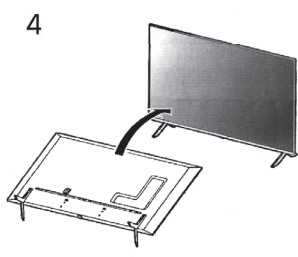
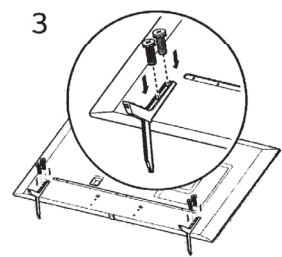
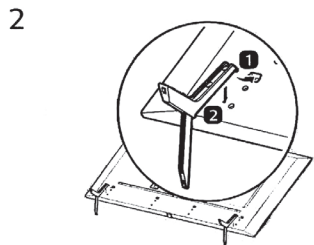
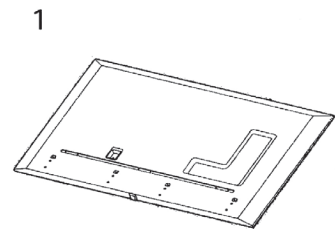
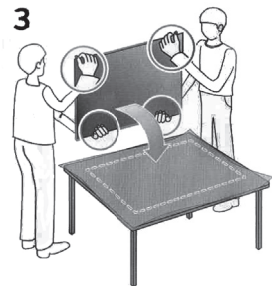
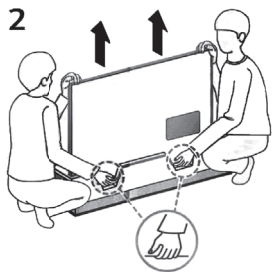
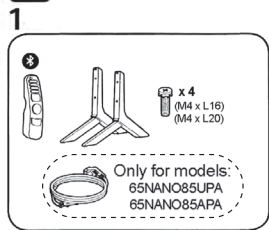
Note: The image shown here is for illustrative purposes only and may be subject to change. The actual number of ports and their locations may vary depending on the model.

The cables mentioned in this guide is not supplied with your unit.

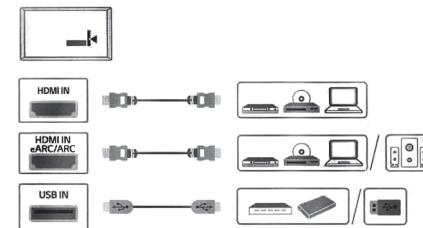
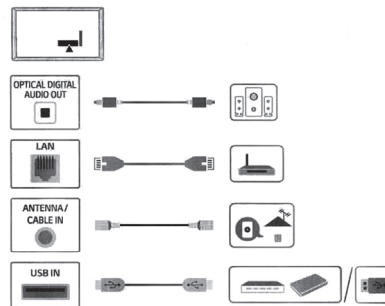
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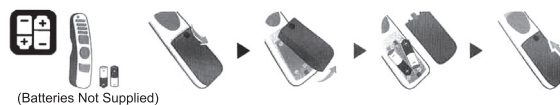
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Easy TV Connect Guide (Animation)

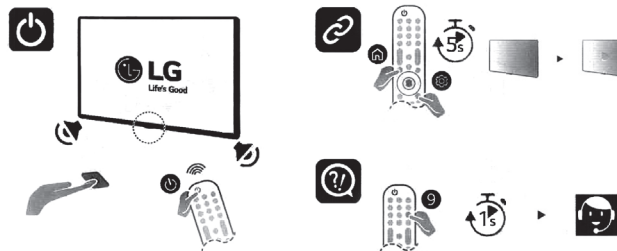


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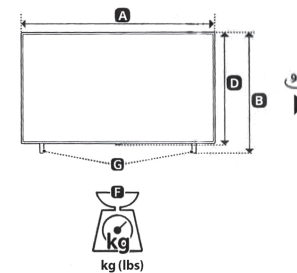


(Batteries Not Supplied)

The remote control vary depend of model: The buttons on the remote control may have a different name or location than the remote control shows in this manual.



A, B, C, D, E : mm (inches)
F, G : kg (lbs)



The image shown here is for illustrative purposes only and may be subject to change. The actual number of ports and their locations may vary depending on the model.

MODELS	A		B		C		D		E		F		F-G		Power consumption
65NANO80UPA	1,452	1 452	906	906	295	295	839	839	44.3	44,3	24.9	24,9	24.5	24,5	200W
65NANO85APA	(57.1)	(57.1)	(35.6)	(35.6)	(11.6)	(11.6)	(33.0)	(33.0)	(1.7)	(1.7)	(54.8)	(54.8)	(54.0)	(54.0)	
75NANO80UPA	1,675	1 675	1 029	1 029	359	359	964	964	44.5	44.5	36.9	36,9	35.9	35,9	270 W
75NANO85APA	(65.9)	(65,9)	(40.5)	(40,5)	(14.1)	(14,1)	(37.9)	(37,9)	(1.7)	(1,7)	(81.3)	(81,3)	(79.1)	(79,1)	
86NANO85APA	1,925	1 925	1,165	1 165	359	359	1,105	1 105	46.1	46,1	55.5	55,5	54.5	54,5	480 W
	(75.7)	(75,7)	(45.8)	(45,8)	(14.1)	(14,1)	(43.5)	(43,5)	(1.8)	(1,8)	(122.3)	(122,3)	(120.1)	(120,1)	
Power requirement												AC 120 V ~ 50 / 60Hz			

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OBPN:*MFL71756471*

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