

OWNER'S MANUAL LED TV

* LG LED TV applies LCD screen with LED backlights.

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

32LN520B 32LN530B 42LN5400 42LN5200 32LN5300 47LN5400

> 39LN5300 50LN5400 42LN5300 55LN5400

P/NO: MFL67651192 (1301-REV00)

www.lg.com

IMPORTANT SAFETY INSTRUCTIONS

Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product.





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

The lightning flash with arrowhead symbol, within an equilateral triangle, 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 exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING/CAUTION

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



MARNING

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.



If you ignore the caution message, you may be slightly injured or the product may be damaged.



NOTE

The note helps you understand and use the product safely. Please read the note carefully before using the product.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Wash hands after handling.

Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.



Do not use this apparatus near water.



Clean only with a 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 (Can differ by country).



• 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.



 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 a 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.



- Do not stick metal objects or any other conductive material into the power cord. Do not touch the end of the power cord while it is plugged in.
- Keep the packing anti-moisture 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.

• CAUTION concerning the Power Cord (Can differ by country):

It is recommended that appliances be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not connect too many appliances to the same AC power outlet as this could result in fire or electric shock. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. 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 service. 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 move the TV with the power cord plugged in. Do not use a damaged or loose power cord. Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.



 Warning - To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the TV with wet hands. Do not install this product near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.

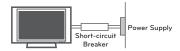


 Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



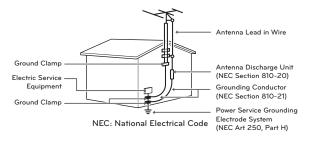
Grounding

(Except for devices which are not grounded.) Ensure that you connect the earth ground wire to prevent possible electric shock (i.e. a TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet). If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.



- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.
- Do not attempt to modify this product in any way without written authorization from LG Electronics.
 Unauthorized modification could void the user's authority to operate this product.
 - 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 so as 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, ANSI/NFPA 70



Cleaning

When cleaning, unplug the power cord and wipe gently with a soft cloth to prevent scratching. Do not spray water or other liquids directly on the TV as electric shock may occur. Do not clean with chemicals such as alcohol, thinners or benzine.

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.

Ventilation

Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase. Do not cover the product with cloth or other materials while plugged. Do not install in excessively dusty places.

- If you smell smoke or other odors coming from the TV, unplug the power cord and contact an authorized service center.
- · Keep the product away from direct sunlight.
- Never touch this apparatus or antenna during a thunder or lightning storm.
- 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 allow an impact shock or any objects to fall into the product, and do not drop anything onto the screen.

Disconnecting the Main Power

The power outlet used with this device must remain easily accessible.

- Store the accessories (battery, etc.) in a safe location out of the reach of children.
- This apparatus use 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.
- · Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or allow the batteries to overheat.

Dot Defect

The Plasma or LCD panel is a high technology product with resolution of two million to six million 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.

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.

- Take care not to touch the ventilation openings.
 When watching the TV for a long period, the
 ventilation openings may become hot. This does
 not affect the performance of the product or cause
 defects in the product.
- 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.

Preventing "Image burn" or "Burn-in" on your TV screen







- If a fixed image displays on the TV screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and not covered by the warranty.
- If the aspect ratio of the TV is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.
- Avoid displaying a fixed image on the TV screen for a long period of time (2 or more hours for LCD, 1 or more hours for the Plasma TV) to prevent image burn.

For USA and Canada

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

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.

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.

LICENSES

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



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



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

OPEN SOURCE SOFTWARE NOTICE

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

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

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

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NOTE -

- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.

INSTALLATION PROCEDURE

- 1 Open the package and make sure all the accessories are included.
- 2 Attach the stand to the TV set.
- 3 Connect an external device to the TV set.

ASSEMBLING AND PREPARING

Unpacking

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

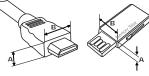


CAUTION

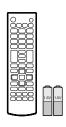
- Do not use any unapproved items to ensure the safety and product life span.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- Some models appear to have a thin film on the screen. It is actually part of the screen, do not remove it.

NOTE -

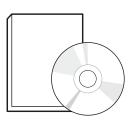
- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm (0.39 inches) thick and 18 mm (0.7 inches) 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 \leq 10 mm (0.39 inches) *B \leq 18 mm (0.7 inches)



Remote Control, Batteries (AAA) (See p. 24)



Owner's Manual, CD manual

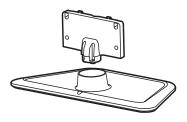


Power Cord

(For 32LN520B, 42LN5200, 32LN530B, 32/39/42LN5300, 42/47/50LN5400)



Desk-Mount Screw (See p. 13)



Stand Body, Stand Base (See p. 12)

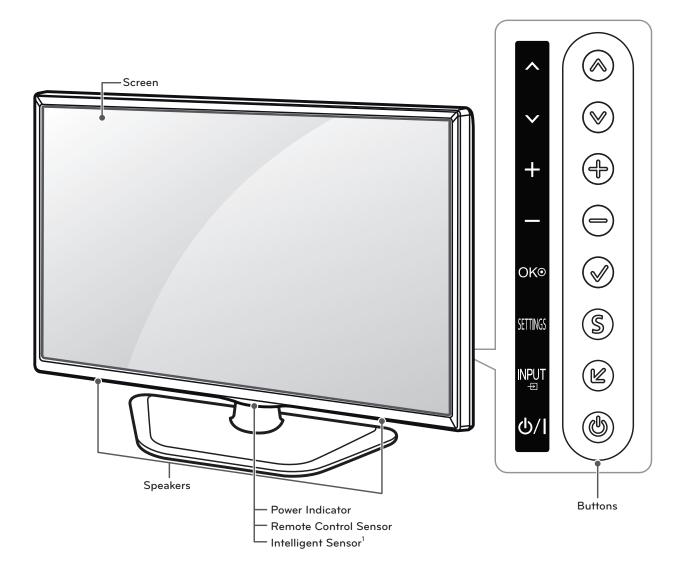


Stand Screws 3 EA, P5 x 25 4 EA, M4 x 14 (See p. 12)



Cable Holder (See p. 14)

Parts and buttons



Button	Description
⊘ / ♡ (∧ / ∨)	Scrolls through the saved channels.
♣/- (+ / -)	Adjusts the volume level.
∜ (OK ⊚)	Selects the highlighted menu option or confirms an input.
S (SETTINGS)	Accesses the main menus, or saves your input and exits the menus.
½ (INPUT →)	Changes the input source.
७ (७/1)	Turns the power on or off.

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

Additional information of the manual

Viewing the owner's manual

The owner's manual in PDF file format is supplied on the enclosed CD. Install the Adobe Acrobat Reader to view the owner's manual on your PC.

- Insert the supplied CD. The web page appears automatically.
- Click Owner's Manual on the web page.
- View the owner's manual.



• If the web page does not appear automatically, access My computer and then click LG and index. html to view the owner's manual.

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.

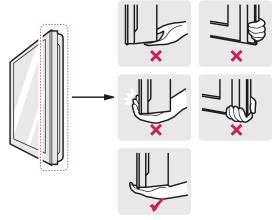


/!\ CAUTION -

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



• Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



- · When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.



- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- · When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.

Setting up the TV

You can mount your TV to a wall or attach the stand if you wish to place the TV on an entertainment center or other furniture.

Attaching the stand

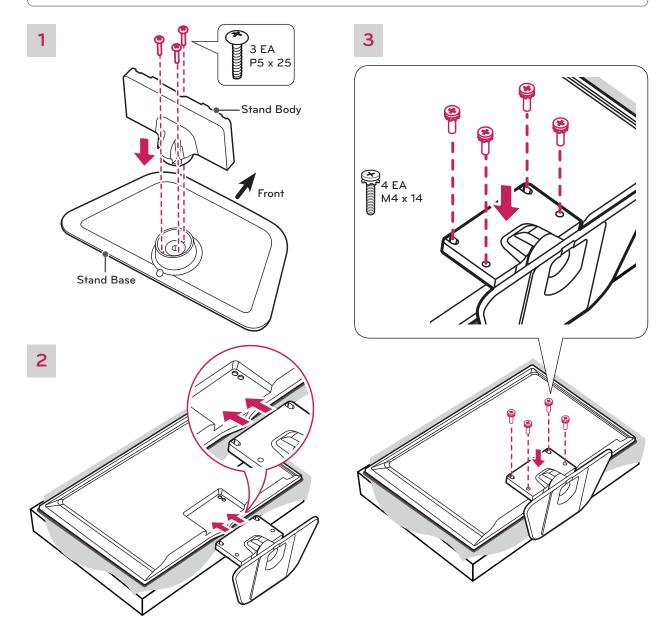
If you are not mounting the TV to a wall, use the following instructions to attach the stand.

CAUTION

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

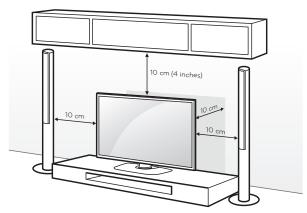
NOT

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



Mounting on a table

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



2 Connect the power cord to a wall outlet.



CAUTION -

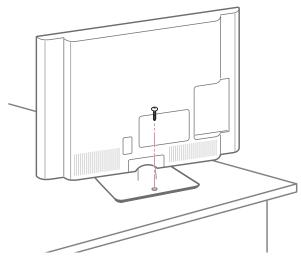
Do not place the TV near or on sources of heat, as this may result in fire or other damage.

Securing the TV to a table

(For 32LN520B, 42LN5200, 32LN530B, 32/39/42LN5300, 42/47/50LN5400)

Fix the TV to a table to prevent from tilting forward, damage, and potential injury.

Mount the TV on a table, and then insert and tighten the supplied screw on the rear of the stand.



MARNING

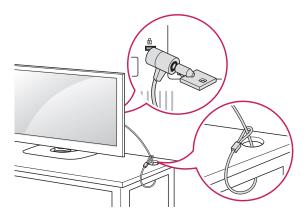
To prevent TV from falling over, the TV should be securely attached to the floor/wall per installation instructions. Tipping, shaking, or rocking the TV may cause injury.

Using the Kensington security system (optional)

The Kensington security system connector is located at the rear of the TV.

For more information of installation and using, refer to the manual provided with the Kensington security system or visit http://www.kensington.com.

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

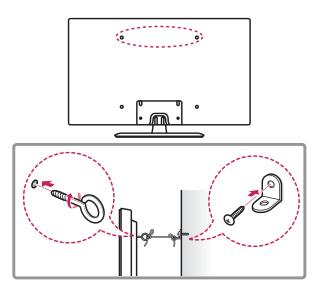




The Kensington security system is optional. You can obtain additional accessories from your local dealer.

Securing the TV to a wall (optional)

(Depending on model)



- 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 eyebolts 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



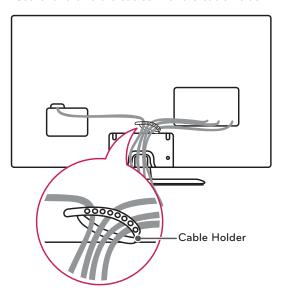
 Make sure that children do not climb on or hang on the TV.

NOTE -

- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are optional. You can obtain additional accessories from your local dealer.

Tidying cables

1 Gather and bind the cables with the cable holder.

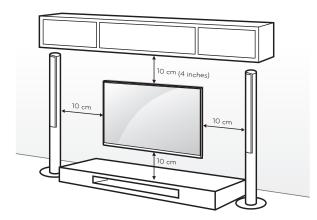


♠ CAUTION -

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

Mounting on a wall

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.



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

Model	32LN520B 32LN530B 32LN5300	39LN5300 42LN5200 42LN5300 42LN5400	
VESA (A x B)	200 x 100	200 x 200	
Standard screw	M4	M6	
Number of screws	4	4	
Wall mount bracket (optional)	LSW130B	LSW230B	

Model	47LN5400 50LN5400 55LN5400
VESA (A x B)	400 x 400
Standard screw	M6
Number of screws	4
Wall mount bracket (optional)	LSW430B



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



NOTE -

- Use the screws that are listed in the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount.

MAKING CONNECTIONS

You can connect various external devices to the TV. Supported external devices are: 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.

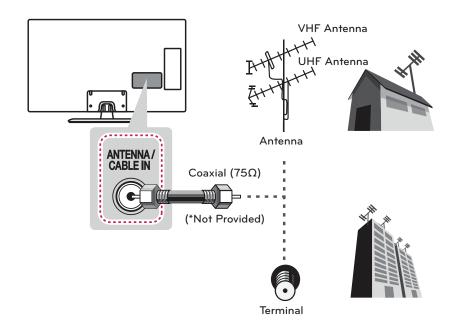


NOTE

- If you record a TV program on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information of recording, refer to the manual provided with the connected device.
- · The external device connections shown may differ slightly from illustrations in this manual.
- Connect external devices to the TV regardless of 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.

Connecting to an antenna or 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 a RF cable is optional.





♠ CAUTION

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 more than 2 TVs.
- Visit http://lgknowledgebase.com for more information about the antenna and cable connection. Search for antenna.
- DTV Audio Supported Codec: MPEG, Dolby Digital.

Connecting to a HD receiver, DVD Player or VCR

Connect a HD receiver, DVD Player or VCR to the TV and select an appropriate input mode.

HDMI Connection

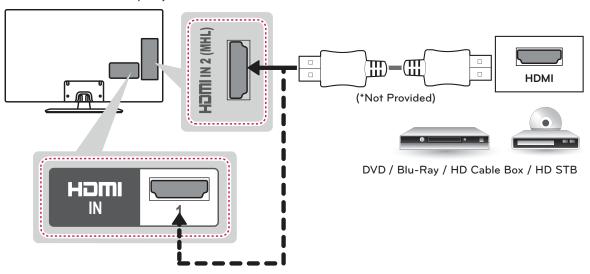
HDMI is the best way to connect a device.

Transmits digital video and audio signals from an external device to the TV. Connect the external device and the TV with the HDMI cable as shown in the following illustration.



- Use the latest High Speed HDMI™ Cable that supports CEC (Customer Electronics Control) function.
- High Speed HDMI™ Cables are tested to carry an HD signal up to 1080p and higher.
- HDMI Audio Supported Format: Dolby Digital, PCM (Up to 192 KHz, 32k/44.1k/48k/96k/192k)
 - -> DTS is not supported.

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



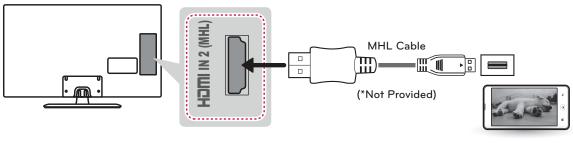
Connecting to a mobile phone

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



NOTE -

- Connect the mobile phone to the HDMI IN 2 (MHL) port to view the phone screen on the TV.
- This only works with an MHL-enabled phones.
- With some MHL supporting mobile phones, you can use the TV remote to control the phone.
- An MHL supported cable is needed to connect the TV and a mobile phone.
- Remove the MHL cable from the TV when:
 - the MHL function is disabled.
 - your mobile device is fully charged in standby mode.



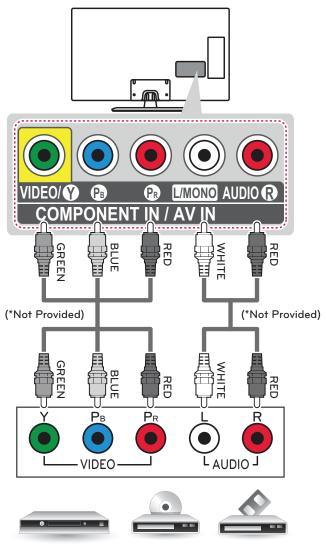
Mobile phone

Component Connection

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with a component cable as shown in the following illustration.



- If cables are installed incorrectly, it could cause the image to display in black and white or with distorted color.
- Check to ensure the cables are matched with the corresponding color connection.



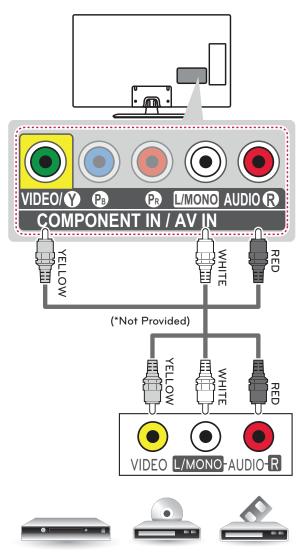
VCR / DVD / Blu-Ray / HD Cable Box

Composite Connection

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable as shown in the following illustration.



• If you have a mono VCR, connect the audio cable from the VCR to the AUDIO L/MONO jack of the TV.



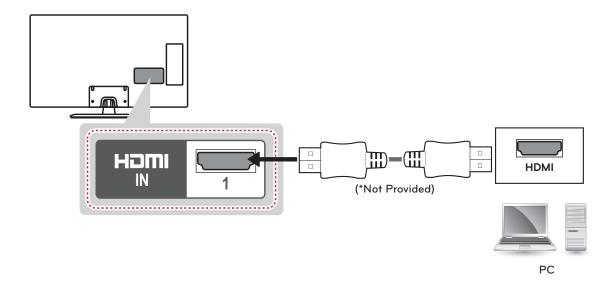
VCR / DVD / Blu-Ray / HD Cable Box

Connecting a PC



- It is recommended to use an HDMI connection for the best image quality.
- Depending on the graphics card, DOS mode video may not work if a HDMI to DVI Cable is in use.
- 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.
- The synchronization input form for Horizontal and Vertical frequencies is separate.
- Depending on the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.
- If you use DVI to HDMI cable for PC, you have to use external speaker for PC audio sound.

HDMI Connection



Connecting to an Audio System

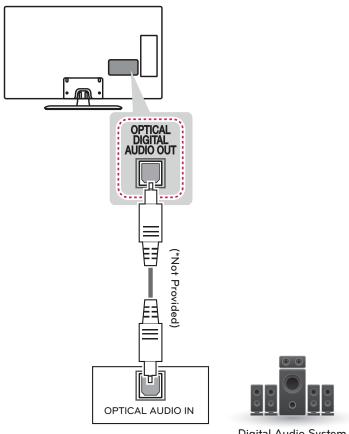
You can use an optional external audio system instead of the built-in speaker.

Digital Optical Audio Connection

Transmits a digital audio signal from the TV to an external device. Connect the external device and the TV with the optical audio cable as shown in the following illustration.



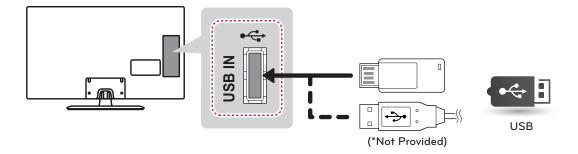
- Do not look into the optical output port. Looking at the laser beam may damage your vision.
- Audio with ACP (Audio Copy Protection) function may block digital audio output.



Digital Audio System

Connecting a USB Device

Connect a USB storage device such as a USB flash memory, external hard drive, or a USB memory card reader to the



REMOTE CONTROL

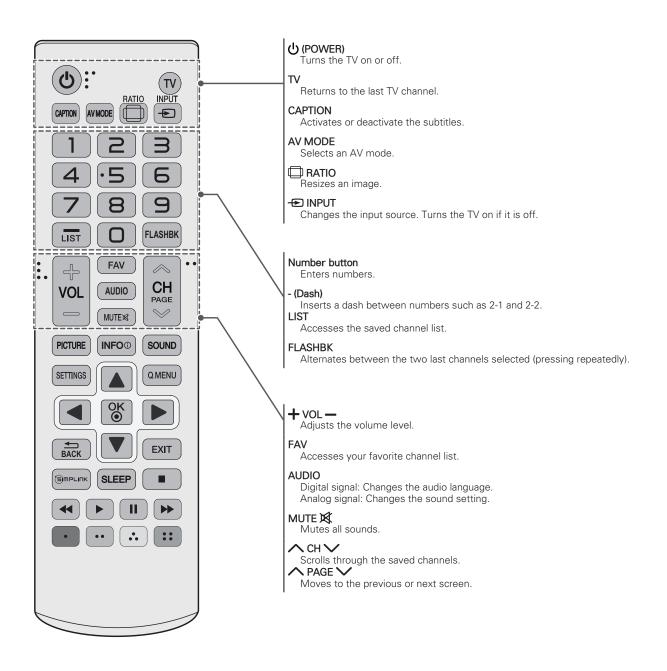
The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly. To install batteries, open the battery cover, replace batteries (1.5 V AAA) matching the \oplus and \bigcirc ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse.

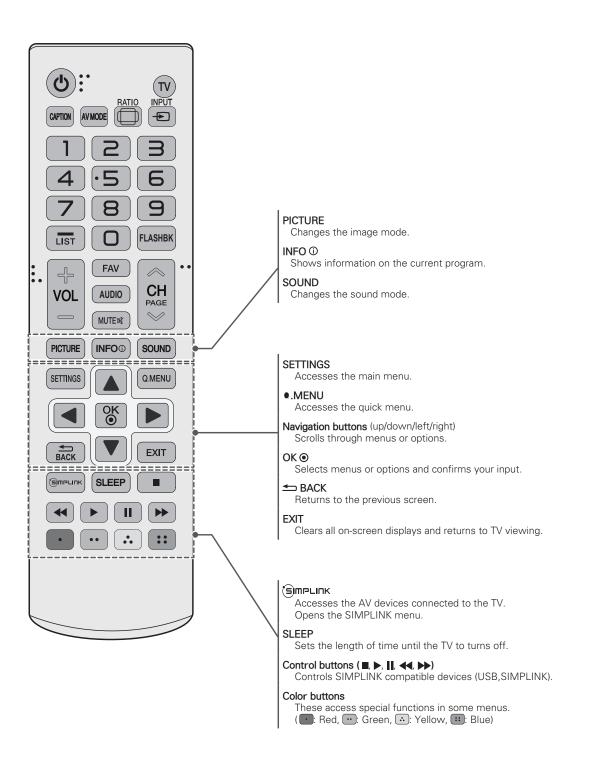




Do not mix old and new batteries, as this may damage the remote control.

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





WATCHING TV

Turning the TV on for the first time

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

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



- You can also access Initial Setting by accessing **OPTION** in the main menu.
- 3 Follow the on-screen instructions to customize your TV settings according to your preferences.

Language Selects a language to display. Û Mode Setting Selects Home Use for the home environment. Time Setting Selects the time zone and daylight Û Scans and saves available channels **Auto Tuning** automatically.



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

4 When the basic settings are complete, press the OK.



- If you do not complete the Initial setting, it will appear whenever the TV turns on.
- Disconnect the power cord from the power outlet when you do not use the TV for a long period of
- 5 To turn the TV off, press the power button on the remote control.

SPECIFICATIONS

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

Power requirement		AC 100 - 240 V ~ 50 / 60 Hz	
Television System		NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage		VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Anteni	na Impedance	75 Ω	
Environment	Operating Temperature	0 - 40 °C	
condition	Operating Humidity	Less than 80 %	
	Storage Temperature	-20 - 60 °C	
	Storage Humidity	Less than 85 %	

MODELS		32LN520B (32LN520B-UA)	42LN5200 (42LN5200-UA)	
Dimensions (W x H x D)	\A/ith atoms	738 x 497 x 207 (mm)	968 x 629 x 236 (mm)	
	With stand	29.0 x 19.5 x 8.1 (inch)	38.1 x 24.7 x 9.2 (inch)	
	Without stand	738 x 449 x 79 (mm)	968 x 579 x 79 (mm)	
		29.0 x 17.6 x 3.1 (inch)	38.1 x 22.7 x 3.1 (inch)	
Weight	With stand	7.0 kg (15.4 lbs)	10.7 kg (23.5 lbs)	
	Without stand	6.4 kg (14.1 lbs)	9.6 kg (21.1 lbs)	
Current Value / Power consumption		1.3 A / 80 W	1.6 A / 110 W	

MODELS		32LN530B (32LN530B-UA)	39LN5300 (39LN5300-UB)	
		32LN5300 (32LN5300-UB)		
	With stand	738 x 497 x 207 (mm)	894 x 587 x 236 (mm)	
Dimensions		29.0 x 19.5 x 8.1 (inch)	35.1 x 23.1 x 9.2 (inch)	
$(W \times H \times D)$	Without stand	738 x 449 x 79 (mm)	894 x 537 x 79.0 (mm)	
		29.0 x 17.6 x 3.1 (inch)	35.1 x 21.1 x 3.1 (inch)	
Weight	With stand	7.0 kg (15.4 lbs)	9.7 kg (21.3 lbs)	
	Without stand	6.4 kg (14.1 lbs)	8.6 kg (18.9 lbs)	
Current Value / Power consumption		1.3 A / 80 W	1.5 A / 100 W	

MODELS		42LN5300 (42LN5300-UB)	
	With stand	968 x 629 x 236 (mm)	
Dimensions		38.1 x 24.7 x 9.2 (inch)	
(W x H x D)	Without stand	968 x 579 x 79 (mm)	
		38.1 x 22.7 x 3.1 (inch)	
\\/aiaht	With stand	10.7 kg (23.5 lbs)	
Weight	Without stand	9.6 kg (21.1 lbs)	
Current Value / Power consumption		1.6 A / 110 W	

MODELS		42LN5400 (42LN5400-UA)	47LN5400 (47LN5400-UA)
	With stand	968 x 629 x 236 (mm)	1,080 x 694 x 264 (mm)
Dimensions	vviin stand	38.1 x 24.7 x 9.2 (inch)	42.5 x 27.3 x 10.3 (inch)
(W x H x D)	Without stand	968 x 579 x 79 (mm)	1,080 x 642 x 80.5 (mm)
		38.1 x 22.7 x 3.1 (inch)	42.5 x 25.2 x 3.1 (inch)
\\/aialat	With stand	10.7 kg (23.5 lbs)	14.5 kg (31.9 lbs)
Weight	Without stand	9.6 kg (21.1 lbs)	13.1 kg (28.8 lbs)
Current Value / Power consumption		1.1 A / 110 W	1.3 A / 130 W

MODELS		50LN5400 (50LN5400-UA)	55LN5400 (55LN5400-UA)
	With stand	1,136 x 727 x 264 (mm)	1,250 x 790 x 297 (mm)
Dimensions	vvitii Stand	44.7 x 28.6 x 10.3 (inch)	49.2 x 31.1 x 11.6 (inch)
(W x H x D)	Without stand	1,136 x 673 x 82.1 (mm)	1,250 x 737 x 79.1 (mm)
		44.7 x 26.4 x 3.2 (inch)	49.2 x 29.0 x 3.1 (inch)
\\/aialat	With stand	15.6 kg (34.3 lbs)	21.2 kg (46.7 lbs)
Weight	Without stand	14.2 kg (31.3 lbs)	19.1 kg (42.1 lbs)
Current Value / Power consumption		1.4 A / 140 W	1.6 A / 160 W

HDMI (DTV) supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480p	31.47	59.94
720 X 480p	31.50	60.00
1220 v 7205	44.96	59.94
1280 x 720p	45.00	60.00
1920 x 1080i	33.72	59.94
1920 X 10801	33.75	60.00
	26.97	23.976
	27.00	24.00
1020 v 1000s	33.71	29.97
1920 x 1080p	33.75	30.00
	67.432	59.94
	67.50	60.00

Component port connecting information

Component ports on the TV	Y	P _B	P _R
Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

Component supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	
720 x 480i	15.73	59.94	
	15.73	60.00	
720 x 480p	31.47	59.94	
	31.50	60.00	
1280 x 720p	44.96	59.94	
	45.00	60.00	
1920 x 1080i	33.72	59.94	
	33.75	60.00	
1920 x 1080p	26.97	23.94	
	27.00	24.00	
	33.71	29.97	
	33.75	30.00	
	67.432	59.94	
	67.50	60.00	

TROUBLESHOOTING

General

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

Audio

Problem	Solution	
No sound is produced while images are displaying.	 Press VOL + or - button. Check if the sound is muted by pressing MUTE. Scroll to other channels. There may a problem with the broadcast. Check if the TV Speaker feature is activated in the menu option. 	
No output from one of the speakers	Adjust Balance in the menu option.	
Unusual sound from inside the TV is produced.	A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off. There is no problem with your product.	

Video

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

EXTERNAL CONTROL DEVICE SETUP

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

CHILD SAFETY:

It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:



THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACURER CARES!

• The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't allow place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display.
 Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction.
 If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.







The extended owner's manuals that contain information on the advanced features of this LG TV are located on the CD-ROM provided in an electronic version.

To read these files, you will need to use the personal computer (PC) equipped with a CD-ROM drive.

The model and serial number of the TV is located on the back and one side of the TV.

Record it below should you ever need service.

MODEL						
SFRIAL						

LG Customer Information Center

For inquires or comments, visit www.lg.com or call;

1-800-243-0000 USA, Consumer User **1-888-865-3026** USA, Commercial User

1-888-542-2623 CANADA

Register your product Online!

www.lg.com



This product qualifies for ENERGY STAR in the "factory default (Home Use)" setting.
Changing the factory default settings or enabling other features may increase power consumption that could exceed the limits necessary to quality for ENERGY STAR.



OWNER'S MANUAL LED TV

* LG LED TV applies LCD screen with LED backlights.

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

32LN520B 32LN530B 42LN5400 42LN5200 32LN5300 47LN5400

39LN5300 50LN5400 42LN5300 55LN5400

P/NO: SAC35595002 (1301-REV00)

www.lg.com

IMPORTANT SAFETY INSTRUCTIONS

Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product.





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

The lightning flash with arrowhead symbol, within an equilateral triangle, 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 exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING/CAUTION

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



WARNING

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.



CAUTION

If you ignore the caution message, you may be slightly injured or the product may be damaged.



NOTE

The note helps you understand and use the product safely. Please read the note carefully before using the product.

Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.



· Do not use this apparatus near water.



• Clean only with a 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 (Can differ by country).



 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.



 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 a 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.



- Do not stick metal objects or any other conductive material into the power cord. Do not touch the end of the power cord while it is plugged in.
- Keep the packing anti-moisture 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.

 CAUTION concerning the Power Cord (Can differ by country): It is recommended that appliances be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not connect too many appliances to the same AC power outlet as this could result in fire or electric shock. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. 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 service. 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 move the TV with the power cord plugged in. Do not use a damaged or loose power cord. Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.



 Warning - To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the TV with wet hands. Do not install this product near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.

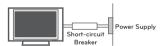


 Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



Grounding

(Except for devices which are not grounded.) Ensure that you connect the earth ground wire to prevent possible electric shock (i.e. a TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet). If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.

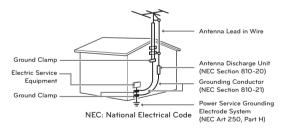


- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.
- Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to operate this product.

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 so as 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, ANSI/NFPA 70



Cleaning

When cleaning, unplug the power cord and wipe gently with a soft cloth to prevent scratching. Do not spray water or other liquids directly on the TV as electric shock may occur. Do not clean with chemicals such as alcohol, thinners or benzine.

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.

Ventilation

Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase. Do not cover the product with cloth or other materials while plugged. Do not install in excessively dusty places.

- If you smell smoke or other odors coming from the TV, unplug the power cord and contact an authorized service center.
- Keep the product away from direct sunlight.
- Never touch this apparatus or antenna during a thunder or lightning storm.
- 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 allow an impact shock or any objects to fall into the product, and do not drop anything onto the screen.

· Disconnecting the Main Power

The power outlet used with this device must remain easily accessible.

- Store the accessories (battery, etc.) in a safe location out of the reach of children.
- This apparatus use 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.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or allow the batteries to overheat.

Dot Defect

The Plasma or LCD panel is a high technology product with resolution of two million to six million 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.

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.
- Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot. This does not affect the performance of the product or cause defects in the product.
- 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.

Preventing "Image burn" or "Burn-in" on your TV screen







- If a fixed image displays on the TV screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and not covered by the warranty.
- If the aspect ratio of the TV is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.
- Avoid displaying a fixed image on the TV screen for a long period of time (2 or more hours for LCD, 1 or more hours for the Plasma TV) to prevent image burn.

For USA and Canada

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

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.

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.

LICENSES

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



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



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

OPEN SOURCE SOFTWARE NOTICE

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

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

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

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55 TROUBLESHOOTING

56 EXTERNAL CONTROL DEVICE SETUP

57 SPECIFICATIONS



- 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.

INSTALLATION PROCEDURE

- 1 Open the package and make sure all the accessories are included.
- 2 Attach the stand to the TV set.
- 3 Connect an external device to the TV set.

ASSEMBLING AND PREPARING

Unpacking

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

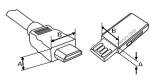


/!\ CAUTION-

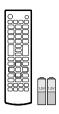
- Do not use any unapproved items to ensure the safety and product life span.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- Some models appear to have a thin film on the screen. It is actually part of the screen, do not remove it.



- 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 (0.39 inches) thick and 18 mm (0.7 inches) 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.

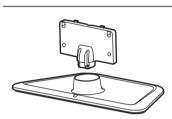


*A ≤ 10 mm (0.39 inches)
*B ≤ 18 mm (0.7 inches)

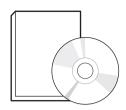


Remote Control, Batteries (AAA)

(See p. 20)



Stand Body, Stand Base (See p. 15)



Owner's Manual, CD manual



EXECUTE 1

Stand Screws 3 EA, P5 x 25 4 EA, M4 x 14 (See p. 15)



Power Cord

(For 32LN520B, 42LN5200, 32LN530B, 32/39/42LN5300, 42/47/50LN5400)

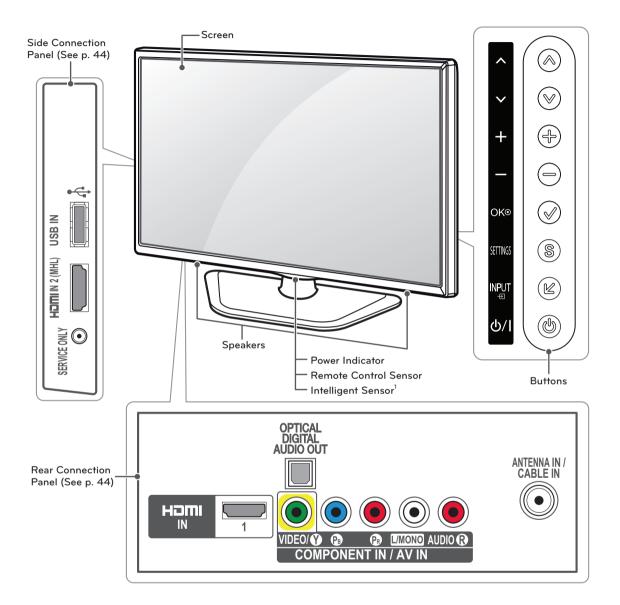


Desk-Mount Screw (See p. 16)



Cable Holder (See p. 18)

Parts and buttons



Button	Description	
∧ / ∨ (∧ / ∨)	Scrolls through the saved channels.	
♣/ ─ (+ / ─)	djusts the volume level.	
∜ (OK ⊚)	Selects the highlighted menu option or confirms an input.	
S (SETTINGS)	Accesses the main menus, or saves your input and exits the menus.	
(INPUT →)	Changes the input source.	
(()/	Turns the power on or off.	

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

Lifting and moving the TV

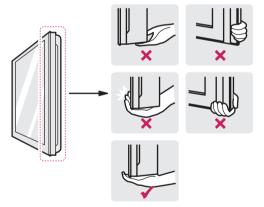
When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

CAUTION-

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



 Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.



- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.

Setting up the TV

You can mount your TV to a wall or attach the stand if you wish to place the TV on an entertainment center or other furniture.

Attaching the stand

If you are not mounting the TV to a wall, use the following instructions to attach the stand.



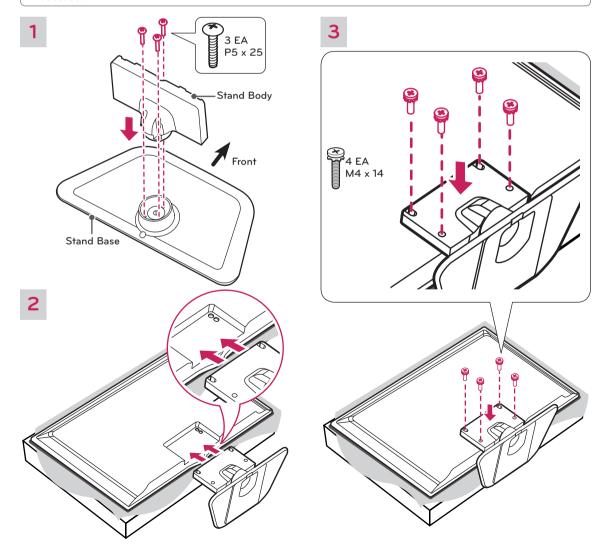
♠ CAUTION-

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



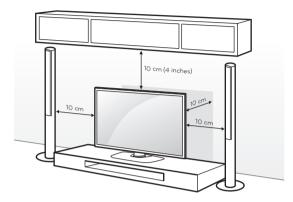
NOTE

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



Mounting on a table

- 1 Lift and tilt the TV into its upright position on a
 - Leave a 10 cm (4 inches) (minimum) space from the wall for proper ventilation.



2 Connect the power cord to a wall outlet.

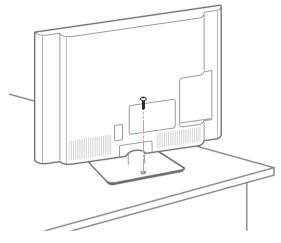


♠ CAUTION -

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

Securing the TV to a table

(For 32LN520B, 42LN5200, 32LN530B, 32/39/42LN5300, 42/47/50LN5400) Fix the TV to a table to prevent from tilting forward, damage, and potential injury. Mount the TV on a table, and then insert and tighten the supplied screw on the rear of the stand.



▲ WARNING -

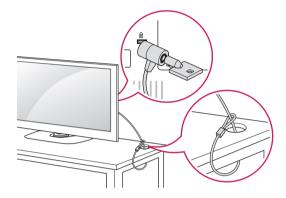
• To prevent TV from falling over, the TV should be securely attached to the floor/ wall per installation instructions. Tipping, shaking, or rocking the TV may cause injury.

Using the Kensington security system (optional)

The Kensington security system connector is located at the rear of the TV.

For more information of installation and using, refer to the manual provided with the Kensington security system or visit http://www.kensington. com.

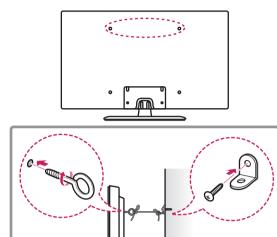
Connect the Kensington security system cable between the TV and a table.



The Kensington security system is optional. You can obtain additional accessories from your local dealer.

Securing the TV to a wall (optional)

(Depending on model)



- 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.

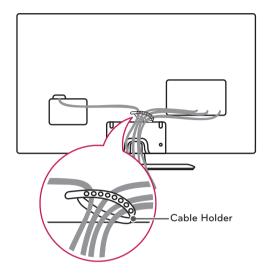


NOTE -

- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are optional. You can obtain additional accessories from your local dealer.

Tidying cables

1 Gather and bind the cables with the cable holder.

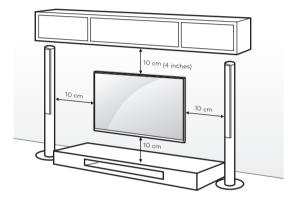


A CAUTION -

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

Mounting on a wall

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.



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

Model	32LN520B 32LN530B 32LN5300	39LN5300 42LN5200 42LN5300 42LN5400
VESA (A x B)	200 x 100	200 x 200
Standard screw	M4	M6
Number of screws	4	4
Wall mount bracket (optional)	LSW130B	LSW230B

Model	47LN5400 50LN5400 55LN5400
VESA (A x B)	400 x 400
Standard screw	M6
Number of screws	4
Wall mount bracket (optional)	LSW430B



♠ CAUTION –

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



NOTE -

- Use the screws that are listed in the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount.

REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly. To install batteries, open the battery cover, replace batteries (1.5 V AAA) matching the \oplus and \bigcirc ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse.

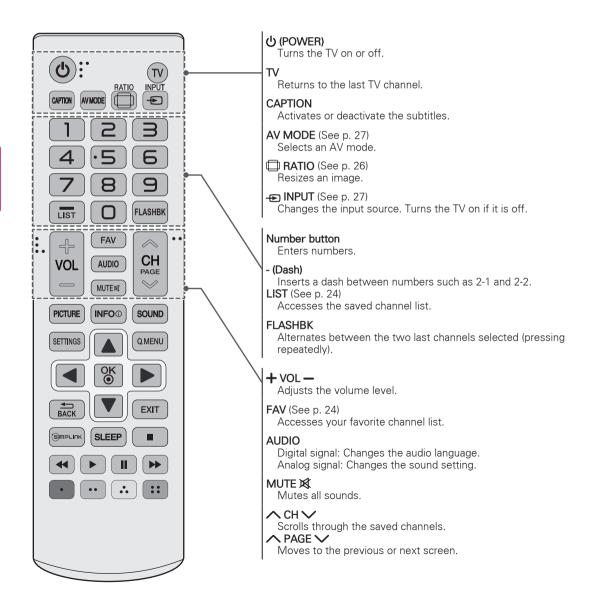


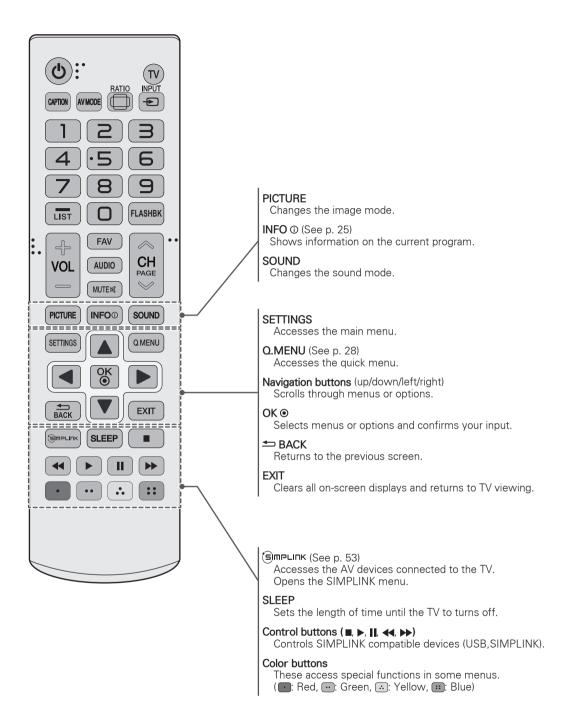


CAUTION -

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

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





WATCHING TV

Turning the TV on for the first time

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

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



- You can also access Initial Setting by accessing **OPTION** in the main menu.
- 3 Follow the on-screen instructions to customize your TV settings according to your preferences.

Language	Selects a language to display.
Û	
Mode Setting	Selects Home Use for the home
Û	environment.
Time Setting	Selects the time zone and daylight
Û	saving.
Auto Tuning	Scans and saves available
	channels automatically.



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

4 When the basic settings are complete, press the OK.



- If you do not complete the Initial setting, it will appear whenever the TV turns on.
- Disconnect the power cord from the power outlet when you do not use the TV for a long period of time.
- 5 To turn the TV off, press the power button on the remote control.

Watching TV

- 1 In Standby mode, press the power button on the remote control to turn the TV on.
- 2 Press INPUT and select TV.
- 3 Control the TV using the following buttons while you are watching TV.

Button	Description
CH (∕^, ✓)	Scrolls through saved channels.
LIST	Selects a channel on the saved channel list.
0 - 9 Selects a channel by entering number	
VOL (+, -)	Adjusts the volume level.
MUTE ⋈	Mutes all sounds.
AV MODE ¹	Selects an AV mode. (See p. 27)
Q.MENU	Accesses the quick menus. (See p. 28)
FLASHBK	Alternates between the last two channels selected.
RATIO	Resizes an image. (See p. 26)

- 1 Each AV mode has different optimized image and sound settings. If you select Off, the image and sound settings will be restored to the previously customized settings.
- 4 To turn the TV off, press the power button on the remote control.

The TV switches to Standby mode.

Managing channels

Setting up channels

Storing channels

To store channels automatically,

- Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to CHANNEL and press OK.
- 3 Press the Navigation buttons to scroll to **Auto** Tuning and press OK.
- 4 Select **Yes** to start automatic tuning. The TV scans and saves available channels automatically.



- If the TV scans and saves channels, the previously saved channels will be overwritten.
- 5 When you are finished, press **EXIT**. When you return to the previous menu, press = BACK.

To store channels manually,

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll CHANNEL and press OK.
- 3 Press the Navigation buttons to scroll to Manual Tuning and press OK.
- 4 Scroll through the channel types, and then add or delete channels.
- 5 When you are finished, press **EXIT**. When you return to the previous menu, press = BACK.

NOTE -

- You can store up to 800 channels. The number of channels that you can store differs depending on the broadcasting signal environment.
- The channels are stored in the order of DTV. TV, CADTV and CATV.

Editing your channel list

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to CHANNEL and press OK.
- 3 Press the Navigation buttons to scroll to Channel Edit and press OK.
- 4 Edit channels using the following buttons.

Button	Description
	Highlights the channel type.
▲, ▼, ◀, ▶	Scrolls through channel types or channels.
OK ⊚	Selects the highlighted channel to view.
CH (∧, ∨)	Moves to the previous or next page.
Blue button	Adds or deletes a channel. The deleted channel displays in grey.

5 When you are finished, press **EXIT**. When you return to the previous menu, press = BACK.

Selecting a channel on the channel list

- 1 Press **LIST** to access the channel list.
 - To move to the previous or next page, press CH (\land, \lor) .
 - To tune to the "CHANNEL menu Channel Edit", press Blue button.
- 2 Select a channel you want and press **OK**.

Using favorite channels

Add the channels that you watch frequently to the favorite list.

Setting up your favorite list

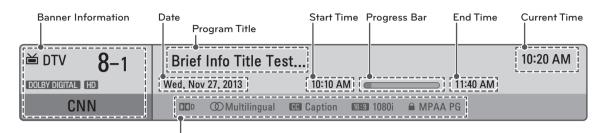
- 1 Select a channel to add to the favorite list.
- Press Q.MENU.
- 3 Press the Navigation buttons to scroll to Үсн Del/Add/Fav.
- 4 Press the Navigation buttons to scroll to Favorite.
- 5 Press **OK** to add the selected channel to the favorite list.
- 6 When you are finished, press **EXIT**.

Selecting a channel on the favorite list

- 1 Press **FAV** to access the favorite list.
 - To move to the previous or next page, press CH (\(\sigma\).
- 2 Select a channel you want and press OK.

Checking current program info

Press **OK** to view the information of the currently program while you are watching. The following information appears at the top of the screen.



Icon		Description	
Dolby Digital	ĭĬD	The program contains a Dolby Digital audio signal. Supported by TV and HDMI input sources.	
Multilingual	0	The program contains two or more audio language services. You can change the audio language using the quick menu.	
Caption		The program contains one or more language caption services. You can change the caption language using the quick menu.	
Aspect ratio		The original aspect ratio of the video is 4:3. The original aspect ratio of the video is 16:9 (wide).	
Resolution	720p 1080i	The video resolution is 720 x 480i. The video resolution is 720 x 480p. The video resolution is 1280 x 720p. The video resolution is 1920 x 1080i. The video resolution is 1920 x 1080p.	
Rating	â	The program contains Rating information. (See "LOCK Settings" on p. 42)	

Using additional options

Adjusting aspect ratio

Resize an image to view at its optimal size by pressing RATIO while you are watching TV.



- You can also change the image size by pressing **Q.MENU** or accessing **Aspect** Ratio in the PICTURE menu.
- The available ratio varies depending on the input source.
 - The input sources: HDMI-PC support 4:3 and 16:9.
- 16:9: Resizes images to fit the screen width.



Just Scan: Displays video images in the original size without cutting off the edges.





- If you select Just Scan, you may see image noises at the edge or edges of the screen.
- The input sources: DTV, Component, and HDMI-DTV (720p/1080i/1080p) support **Just** Scan.

Set By Program: Displays images in the same aspect ratio as the original image.

$$(4:3 \to 4:3)$$



 $(16:9 \rightarrow 16:9)$



4:3: Resizes images to the previous standard



Zoom: Formats an image to fit the screen width. The top and bottom of the image may not appear.



 Cinema Zoom1: Formats an image to the cinemascope ratio, 2.35:1.

To change the ratio of the cinema zoom, press \triangleleft or \triangleright and its range is from 1 to 16.





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

Changing AV modes

Each **AV mode** has optimized image and sound settings.

Press **AV MODE** repeatedly to select an appropriate mode.

Mode	Description
Off	Changes to the previously customized settings.
Cinema	Uses the optimized image and sound settings for a cinematic look.
Game	Uses the optimized image and sound settings for fast gaming. When playing a video game using PlayStation or Xbox. it is recommended to use the Game mode. When in Game mode, functions related to picture quality will be optimized for playing games.

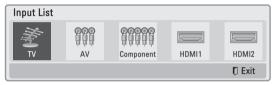
Using the input list

Selecting an input source

- 1 Press **INPUT** to access the input sources.
 - The connected device displays on each input source.



- You can also access the input source list by selecting INPUT in the SETTINGS menu.
- 2 Press the Navigation buttons to scroll to one of the input sources and press **OK**.



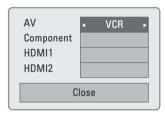
Input source	Description
TV	Watch TV over the air, cable, and digital cable broadcast.
AV	Watch video from a VCR or other external devices.
Component	Watch video from a DVD or other external devices, or through a digital set-top box.
HDMI	Watches video from a HTS or other high definition devices.

The disconnected input sources will be gray.

- To add an input label, press the **Blue** button. You can easily identify a device connected to each input source.
- If you connect a new external device to the TV, a pop-up window appears. Select Yes on the pop-up window to switch to that input source.

Adding an Input label

Add a label to an input source so that you can easily identify a device connected to each input source.



- 1 Press **INPUT** to access the input sources.
- 2 Press the Navigation buttons to scroll to one of the input sources.
- 3 Press the **Blue** button.
- 4 Press the Navigation buttons to scroll to one of the input labels and press OK.
- 5 When you are finished, press **EXIT**. When you return to the previous menu, press = BACK.

Using the quick menu

Customize frequently used menus.

- 1 Press Q.MENU to access the quick menus.
- 2 Press the Navigation buttons to scroll through the following menus and press OK.

Menu	Description
	Changes the image size.
Picture Mode	Changes the image mode.
☐ Sound Mode	Changes the sound mode.
☐ Caption	Activates or deactivate the subtitles.
(®) Multi Audio (Digital signal)	Changes the audio language.
(SAP) (Analog signal)	Changes the sound setting.
c ² Sleep Timer	Sets the length of time until the TV to turns off.
何 Del/Add/ Fav	Edits the channels to add or delete the channel.
Ō+ Eject USB	Eject a USB device. The menu is displayed only when the USB device is connected.



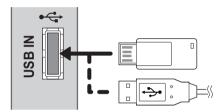
- The available menus and options may differ from the input source that you are using.
- 3 Press the Navigation buttons to scroll to the option you want.
- 4 When you are finished, press **Q.MENU**.

ENTERTAINMENT

Connecting USB storage devices

Connect USB storage devices such as a USB flash drive or external hard drive to the TV and use multimedia features. (See "Browsing files" on p. 30)

Connect a USB flash drive or USB memory card reader to the TV as shown in the following illustration.



To disconnect a USB storage device, make sure to end the connection properly to prevent damages to the TV or files.

- 1 Press **Q.MENU** to access the quick menus.
- 2 Press the Navigation buttons to scroll to **Eject** USB and press OK.
- 3 Disconnect the USB storage device only when the message says that it is safe to remove.

⚠ CAUTION-

- Do not turn the TV off or remove a USB storage device while the USB storage device is connected to the TV, as this could result in loss of files or damage to the USB storage device.
- Back up your files saved on a USB storage device frequently, as you may lose or damage the files and this is not covered by the warranty.

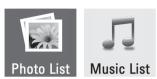
Tips for using USB storage devices

- The TV recognizes only a USB storage device.
- If you connect a USB storage device to the TV through a USB hub, your TV may not recognize the USB storage device.
- The TV may not recognize a USB storage device that requires a special driver.
- The recognition speed of a USB storage device may differ depending on the device.
- Only use a USB storage device which has normal music or image files.
- Use only USB storage devices that are formatted as a FAT 32 or NTFS file system.
- You may need to connect a USB storage device to an external power supply with a power adapter.
- If the TV does not recognize a connected USB storage device, replace the cable and try again. Do not use an excessively long cable
- The TV does not support some USB storage devices properly.
- You can use a multi-partition (up to 4) USB storage device.
- The file alignment method of a USB storage device is similar to the one of Window XP.
- You cannot create or delete a folder saved in a USB storage device directly on the TV.
- The number of characters for a file name is up to 100 English characters.
- If there are too many folders and files in one folder, it may not operate properly.
- The recommended capacity for a USB external hard disk is 1 TB or less and for a USB storage device is 32 GB or less.
- If a USB external hard disk with the Energy Saving feature does not work, turn the USB external hard disk off and on again to make it work properly. For more information, refer to the user manual of the USB external hard disk
- The electrostatic can cause USB device's malfunction. In this case, USB Device has to be plugged again.

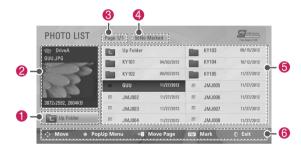
Browsing files

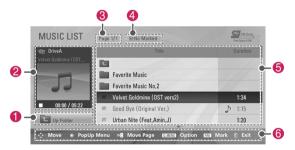
Access the photo or music lists to browse files.

- 1 Connect a USB storage device.
- 2 Press Navigation buttons to scroll to Photo List or Music List and press OK.



- 3 Select DriveA to access the connected USB storage device.
- 4 Press the Navigation buttons to Select a folder/ file you want.





No.	Description
0	Moves to the upper level folder.
2	Preview
3	Current page/Total pages
4	Total number of marked files
6	Contents under the folder focused on 1
6	Available buttons on the remote control

Tips for using USB storage devices

Type	Supported File Formats
Photo	 JPG Available size Baseline: 64 pixel (W) x 64 pixel (H) - 15360 pixel (W) x 8640 pixel (H) Progressive: 64 pixel (W) x 64 pixel (H) - 1024 pixel (W) x 768 pixel (H) * Do not use the progressive option when saving JPG files on your PC. It may take some time to open high-resolution images in full screen.
Music	 MP3 Bit rate range 32 Kbps - 320 Kbps Sampling rate (Sampling Frequency) MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz MPEG2 layer 3: 16 kHz, 22.05 kHz, 24 kHz MPEG2.5 layer 3: 8 kHz, 11.025 kHz, 12 kHz * A copy-protected file will not play.

Viewing Photos

You can view image files saved on a USB storage device. The displays on the screen may differ based on the model.

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to USB and press OK.
- 3 Press the Navigation buttons to scroll to **Photo** List and press **OK**.
- 4 Select **DriveA** to access the connected USB storage device.
- 5 Press the Navigation buttons to scroll to a folder/file you want and press **OK**.
- 6 View photos by using the following menus/ buttons.



Button	Description
Navigation button	Scrolls through the files.
OK	Views the highlighted file or enters the mark mode.
CH (∧, ∨)	Moves to the previous or next page.
FAV	Enters the mark mode.
Menu	Description
View	Views the selected photo.
Mark All	Selects all files
Unmark All	Clears all of your selections.
Close	Exits the Mark Mode.



• Image: Non-supported files are displayed using this graphic.

7 The following options are available while viewing photos.



Option	Description
Slide show	Starts or stops a slideshow with selected photos. If there are no selected photos, all photos saved in the current folder display during a slideshow. To set a slideshow speed, select Option.
BGM (Background Music)	Turns the background music on or off. To set the background music folder, select Option.
υ (Rotate)	Rotates photos clockwise. (90°, 180°, 270°, 360°) NOTE The supported photo size is limited. You cannot rotate a photo if the resolution of the rotated width is larger than the supported resolution size.
Hide	Hides the option window. To display the options, press OK .



- Option values changed in Photo List do not affect Music List.
- Option values changed in Photo List or Music List are changed likewise in Photo List and Music List.

Q.MENU options for photo list

- Press O.MENU. A pop-up window will appear.
- 2 Press the Navigation buttons to scroll to **Set** photo view, and press OK.
- 3 Press the Navigation buttons to scroll to one of the following options and press **OK**.

Set photo view.

Option	Description
Slide Speed	Selects a slideshow speed (Fast, Normal, Slow).
Music Folder	Selects a music folder for the background music. NOTE You can't change the music folder while the background music is playing.

Set video.

Allows you to change Video presets. (See "PICTURE Settings" on p. 35)

Set audio.

Allows you to change Audio presets. (See "AUDIO Settings" on p. 38)

Listening to music

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to **USB** and press OK.
- 3 Press the Navigation buttons to scroll to **Music** List and press OK.
- 4 Select **DriveA** to access the connected USB storage device.
- 5 Press the Navigation buttons to scroll to a folder/file you want and press OK.
- 6 Play music by using the following menus/ buttons.



Button	Description
Navigation button	Scrolls through the files.
OK	Views the highlighted file or enters the mark mode.
CH (∧, ∨)	Moves to the previous or next page.
FAV	Enters the mark mode.
Menu	Description
IVIOIIG	Description
Play	Plays the selected music file.
Play Play with	Plays the selected music file.
Play Play with Photo	Plays the selected music file. Displays photos during playback.

NOTE -

- : Abnormal files are displayed using this graphic.
- : Non-supported files are displayed using this graphic.

7 Control playing by using the following buttons.

Button	Description
	Stops playback.
•	Plays a music file.
II	Pauses or resumes playback.
≪	Skips to the previous file.
>>	Skips to the next file.

Q.MENU options for music list

- 1 Press Q.MENU. A pop-up window will appear.
- 2 Press the Navigation buttons to scroll to **Set** Audio. and press OK.
- 3 Press the Navigation buttons to scroll to one of the following options and press OK.



NOTE -

• Option value changed in Photo List and Music List are changed likewise in Photo List and Music List.

Set Audio.

Allows you to change Audio presets. (See "AUDIO Settings" on p. 38)



NOTE -

- The TV will not play copy protected files.
- If the TV is not in use for some time during playback, the information box as a screensaver will appear to prevent image burn.

To return to the Music list screen, press **OK** or **S BACK**.

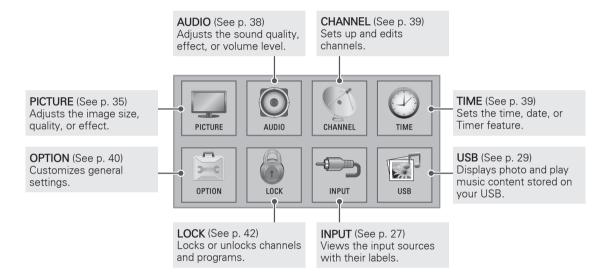


Time elapsed /Duration

CUSTOMIZING TV SETTINGS

The Main Menus

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press OK.
- 4 When you are finished, press EXIT.

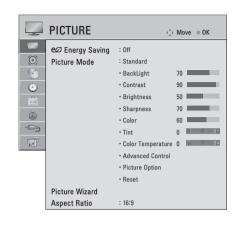


Customizing Settings

PICTURE Settings

- Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to **PICTURE** and press OK.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press OK.
 - To return to the previous level, press = BACK.
- 4 When you are finished, press EXIT.

The available picture settings are described in the following.



Setting	Description		
e Energy Saving	Reduces the power consumption by adjusting the screen brightness. NOTE		
	When selecting Auto or Maximum, Backlight will not work.		
	Option		
	Auto	The backlight is adjusted automatically corresponding to the surroundings when selecting Auto using the Intelligent sensor feature.	
	Off	Select if this feature is not necessary.	
	Minimum/ Medium/ Maximum	Selects the brightness level.	
	Screen off	The screen turns off in 3 seconds. Pressing any button of the remote control will turn on the screen again.	
Picture Mode	Selects one of the preset image or customizes options in each mode for the best TV screen performance. You are also able to customize advanced options of each mode. The available preset picture modes vary depending on the TV.		
	Mode		
	Vivid	Adjusts the video image for the retail environment by enhancing the contrast, brightness, color, and sharpness.	
	Standard	Adjusts the image for a normal environment.	
	Eco	The Energy Saver feature changes settings on the TV to reduce power consumption.	
	Cinema	Optimizes the video image for a cinematic look to enjoy movies as if you are in a movie theater.	
	Game	Optimizes the video image for fast moving video such as PCs or games.	
	Expert1 or 2	Adjusts the detailed video image settings for video experts as well as general viewers	
Picture Wizard		age quality and calibrates the screen. d options will be saved as Expert1 in the Picture Mode .	
		cicture Wizard, the Energy saving feature will turn off automatically. The samples made by Picture Wizard, operate Reset when Picture Mode is on Expert1.	
Aspect Ratio	Changes the image size to view images at its optimal size. (See p. 26)		

Basic Image Options

Setting	Description	
Backlight	Adjusts the brightness of the screen by controlling the LCD backlight. If you decrease the brightness level, the screen becomes darker and the power consumption will be reduced without any video signal loss. NOTE	
	• If you use the "Energy saving - Off, Minimum, Medium", Backlight will be available.	
Contrast	Increases or decreases the amplitude of the video signal. You may use Contrast when the bright part of the picture is saturated.	
Brightness	Adjusts the base level of the signal in the picture.	
Sharpness	Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.	
Color	Adjusts intensity of all colors.	
Tint	Adjusts the balance between red and green levels.	
Color Temperature	Sets to warm to enhance hotter colors such as red, or set to cool to enhance cooler colors such as blue.	
Advanced Control or Expert Control	Customizes the advanced options.	
Picture Option	Adjusts detailed setting for images.	
Reset	Restores the options of each mode to the factory default.	

Advanced or Expert Image Options (Depending on model)

Setting	Description
Dynamic Contrast	Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Color	Adjusts screen colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue and green white look more vivid.
Skin Color	Skin color spectrum can be separately set to implement the skin color defined by the user.
Grass Color	Natural color spectrum(meadows, hills, etc.) can be separately set.
Sky Color	Sky color is set separately.
Gamma	Sets the gradation curve according to the output of picture signal in relation to the input signal.
Color Gamut	Displays color domain of the signal. Standard: Displays standard set of colors. EBU: Mode to display EBU standard color area. SMPTE: Mode to display SMPTE standard color area. BT709: Mode to display BT709 standard color area. Wide: Increase number of colors used.
Edge Enhancer	Shows clearer and distinctive yet natural edges of the video. This function works well over Sharpness UI 30 value.
Color Filter	This is the function to filter the specific colors of the video. You can use the RGB filter to set color saturation and hue accurately.

Color	Adjusts the overall color of the screen by changing the white baseline.
Temperature	a. Gamma : Select Cool, Medium, Warm1, Warm2 b. Method : 2 Points • Pattern: Inner, Outer • Points: Low, High • Red/Green/Blue: The adjustment range is -50 - +50 • C. Method : 20 Point IRE • Pattern: Inner, Outer • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 0, 5, 10, 15 - 100. You can adjust Red, Green or Blue according to each setting. • Red/Green/Blue: The adjustment range is -50 - +50. d. Apply to all inputs
Color Management System	As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colors but can be used to selectively adjust the 6 color areas (Red/Green/Blue/Cyan/Magenta/Yellow). Color difference may not be distinctive even when you make the adjustments for the general video. Adjusts Red/Green/Blue/Yellow/Cyan/Magenta. Red/Green/Blue/Yellow/Cyan/Magenta Saturation: The adjustment range is -30 - +30. Red/Green/Blue/Yellow/Cyan/Magenta Tint: The adjustment range is -30 - +30. Red/Green/Blue/Yellow/Cyan/Magenta Luminance: The adjustment range is -30 - +30.

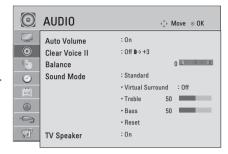
Picture Option (Depending on model)

Setting	Description
Noise Reduction	Reduces screen noise without compromising video quality.
MPEG Noise Reduction	Reduces noise saused by compressing digital video.
Black Level	Sets black level of the screen to proper level. This function is available in the following modes: TV(NTSC-M/J, PAL-M), AV (NTSC-M/J, PAL-M), HDMI or Component. • Auto: Realizing the black level of the screen and set it to High or Low automatically. • Low: The reflection of the screen gets darker. • High: The reflection of the screen gets brighter.
Real Cinema	Optimizes the screen for movie viewing.
Motion Eye Care	Saves power consumption by adjusting the brightness corresponding to movement in the video.

AUDIO Settings

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to AUDIO and press OK.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press OK.
 - To return to the previous level, press = BACK.
- 4 When you are finished, press EXIT.

The available audio settings are described in the following.



Setting		Description		
Auto Volume	Activates the Auto Volume feature to keep the volume level consistent whenever you change channels. The volume level may not be consistent due to different signal conditions of broadcasting stations.			
Clear Voice II	Enhances hu	man voice clarity. You can adjust the level of clarity when you set this feature on.		
Balance	Adjusts balar	nce between the left and right speakers according to your room environment.		
Sound Mode	Selects one	Selects one of the preset sound modes or customizes options in each mode.		
	Mode			
	Standard	Select when you want standard-quality sound.		
	Music	Select when you listen to music.		
	Cinema	Select when you watch movies.		
	Sport	Select when you watch sports events.		
	Game	Select when you play games.		
	• If the Clea	r Voice II feature is on, Virtual Surround will not be activated.		
	Option			
	Virtual Surround	Virtual Surround is a patented LG proprietary sound processing technology that produces immersive 5.1 surround sound with just two front speakers.		
	Treble	Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.		
	Bass	Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.		
	Reset	Resets the sound mode to the default setting.		
TV Speaker	Turns off the internal speaker of the TV when using an external Hi-Fi system.			

♦ Move ⊙ 0K

: Off

: Off

: Off

CHANNEL Settings

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to CHANNEL and press OK
- 3 Press the Navigation buttons to scroll to the setting or option you want and press OK.
 - To return to the previous level, press = BACK.
- 4 When you are finished, press EXIT.

The available channel settings are described in the following.

Setting	Description		
Auto Tuning	Tunes and stores all available channels through antennas or cable inputs. (See p. 23)		
Manual Tuning	Tunes and stores the channels you want manually. (See p. 23)		
Channel Edit	Adds or deletes channels on the channel. (See p. 24)		

TIME Settings

- Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to **TIME** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want

and press **OK**.

- To return to the previous level, press = BACK.
- 4 When you are finished, press EXIT.

The available time settings are described in the following.

Setting	Description		
Clock	Sets the time, date, time zone, and daylight-saving time feature. The time will be set automatically according to a digital channel signal which includes time information provided by the broadcasting station. If not, set the time and date manually.		
Off Time / On Time	Sets the time to turn on or off the TV automatically. To use this function, you should set the curritime and date in advance. NOTE If you do not press any button within 2 hours after the TV turns on by the On Time feature, the enters the Standby mode automatically. When power is turned on: The power is automatically turned off by the Off Time feature. When power is turned off: The power is automatically turned on by the On Time feature.		
Sleep Timer	Sets the length of time until the TV to turns off. When you turn the TV off and turn it on again, the Sleep timer feature will be set to off.		



TIME

Clock

Off Time

On Time

Sleep Timer

•

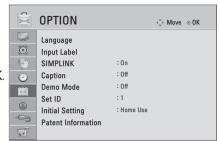
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OPTION Settings

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press OK.
 - To return to the previous level, press = BACK.
- 4 When you are finished, press **EXIT**.

The available general settings are described in the following.



Setting	Description			
Language	Selects a desired language.			
	Option			
	Menu	Selects a language for the display text.		
	Audio	Selects an audio language for your program. This feature operates only in the DTV or CADTV mode.		
Input Label	Indicates which device is connected to which input port.			
SIMPLINK	Use the TV remote control to play and control the AV device connected with the HDMI cable through HDMI-CEC.			
Caption	Sets whether to display captions and customize your option in each mode.			
	Mode			
	CC1 - 4 (Closed Captioning)	Displays the audio portion of a TV program as text on the TV screen. CC1 is the most common mode in use. - Field 1 data channels: two Captions (CC1, CC2) and two Text (T1, T2).		
	Text1 - 4	- Field 2 data channels: two Captions (CC3, CC4) and two Text (T1, T2).		
	Service1 - 6	This is only available for the digital broadcasting system.		
	Digital Option (For DTV, CADTV)			
	Size	Selects the word size.		
	Font	Selects a typeface for the text.		
	Text Color	Selects a color for the text.		
	Text Opacity	Adjusts the opacity for the text color.		
	Bg Color	Selects a background color.		
	Bg Opacity	Adjusts the opacity for the background color.		
	Edge Type	Selects an edge type.		
	Edge Color	Selects a color for the edges.		
Demo Mode	Shows special features of the TV. You can cancel the demo mode by pressing any button.			
Set ID	Adds an ID to the connected devices.			

Initial Setting

Resets the TV to factory default and erases all stored channels. Customizes the TV settings to suit your preference. The initial setup screen will appear when you turn on the TV for the first time.



• When selecting "Lock System - On" in the LOCK menu, the message to enter the password appears.

Setting		
Language	Selects a desired language.	
Mode Setting	Selects Home Use for the home environment. Selects Store Demo for the retail environment. Selects Demo Mode to set to show special features of the TV. You can cancel the demo mode by pressing any buttons. NOTE When selecting Store Demo, Demo Mode will be activated.	
Time Setting	Sets the time zone and daylight saving.	
Auto Tuning	Scans and saves available channels automatically.	

LOCK Settings

- 1 Press **SETTINGS** to access the main menus.
- 2 Press the Navigation buttons to scroll to LOCK and press OK.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press OK.
 - To return to the previous level, press == BACK.
- 4 When you are finished, press **EXIT**.

The available channel settings are described in the following.



Setting	Description			
Lock System	Activates or deactivates the lock system.			
Set Password	Changes the 4-	digit password. The default PIN is "0 0 0 0".		
Block Channel	Lock icon appe	nnels that contain inappropriate content for children by pressing the Blue button. The ars in front of the blocked channels. The channels can be selected but the screen is e audio is muted.		
Movie Rating		vies that are only broadcasted on the TV and contain inappropriate contents, based on ture Association of America (MPAA) rating.		
	Rating			
	G	General audiences – All ages admitted		
	PG	Parental guidance suggested – Some material may not be suitable for children		
	PG-13 Patents strongly cautioned – Some material may be inappropriate for children u			
	R	Restricted – Under 17 requires accompanying parent or adult guardian		
	NC-17	No one 17 and under admitted		
	X	Adults only		
	Blocking Off	Permits all programs		
TV Rating- Children	Blocks programs that parents do not want their children to watch. To block other TV programs, you should set the TV Rating-General feature.			
Rating				
	TV-Y (All children, including children from ages 2-6) TV-Y7 (Directed to older children, suitable for children age 6 and above)			
	TY-Y7 (Directed to older children – Fantasy violence, suitable for children age 6 and above, containing more intense or combative fantasy violence)			

TV Rating-General

Blocks the TV programs that you want based on the ratings by using the Parental Control Function (V-Chip).



The V-Chip electronically reads TV program ratings and allows parents to block programs that are unsuitable for children.

	Rating		
	Age	TV-G (General audience, suitable for all ages) TV-PG (Parental guidance suggested, containing material that are unsuitable for younger children) TV-14 (Parents strongly cautioned, containing material that are unsuitable for children age 14 and under) TV-MA (Mature audience only, unsuitable for children age under 17)	
	Dialog (suggestive dialogue)	TV-PG or TV-14	
	Language (coarse language)	TV-PG, TV-14, or TV-MA	
	Sex (sexual situation)	TV-PG, TV-14, or TV-MA	
	Violence	TV-PG, TV-14, or TV-MA	
_	This function energies only when TV has received Region Pating data		

Rating

Downloadable This function operates only when TV has received Region5 Rating data. The name of the rating option may differ.



This feature is available only for digital channels.

Input Block

Blocks the input sources.

MAKING CONNECTIONS

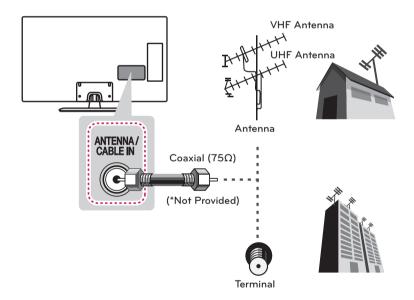
You can connect various external devices to the TV. Supported external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices. For more information on external device's connection, refer to the manual provided with each device.



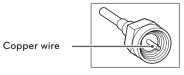
- If you record a TV program on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information of recording, refer to the manual provided with the connected device.
- The external device connections shown may differ slightly from illustrations in this manual.
- Connect external devices to the TV regardless of 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.

Connecting to an antenna or 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 a 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.

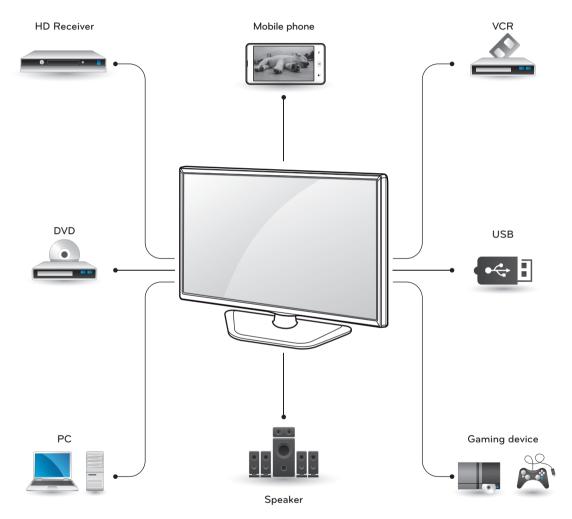
NOTE -

- Use a signal splitter to use more than 2 TVs.
- Visit http://lgknowledgebase.com for more information about the antenna and cable connection. Search for antenna.
- DTV Audio Supported Codec: MPEG, Dolby Digital.

Connection Overview

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

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



Connecting to a HD receiver, DVD Player or VCR

Connect a HD receiver, DVD Player or VCR to the TV and select an appropriate input mode.

HDMI Connection

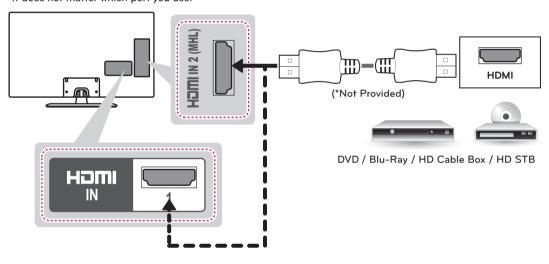
HDMI is the best way to connect a device.

Transmits digital video and audio signals from an external device to the TV. Connect the external device and the TV with the HDMI cable as shown in the following illustration.



- Use the latest High Speed HDMI™ Cable that supports CEC (Customer Electronics Control) function.
- High Speed HDMITM Cables are tested to carry an HD signal up to 1080p and higher.
- · HDMI Audio Supported Format: Dolby Digital, PCM (Up to 192 KHz, 32k/44.1k/48k/96k/192k) -> DTS is not supported.

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



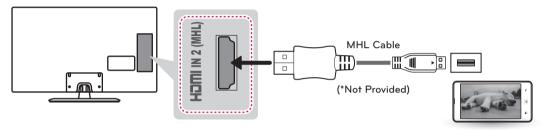
Connecting to a mobile phone

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



NOTE -

- Connect the mobile phone to the HDMI IN 2 (MHL) port to view the phone screen on the TV.
- This only works with an MHL-enabled phones.
- With some MHL supporting mobile phones, you can use the TV remote to control the phone.
- An MHL supported cable is needed to connect the TV and a mobile phone.
- Remove the MHL cable from the TV when:
 - the MHL function is disabled.
 - your mobile device is fully charged in standby mode.



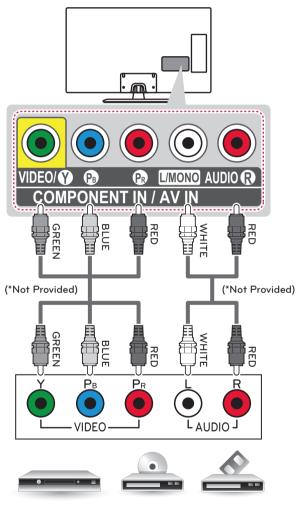
Mobile phone

Component Connection

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with a component cable as shown in the following illustration.



- If cables are installed incorrectly, it could cause the image to display in black and white or with distorted color.
- · Check to ensure the cables are matched with the corresponding color connection.



VCR / DVD / Blu-Ray / HD Cable Box

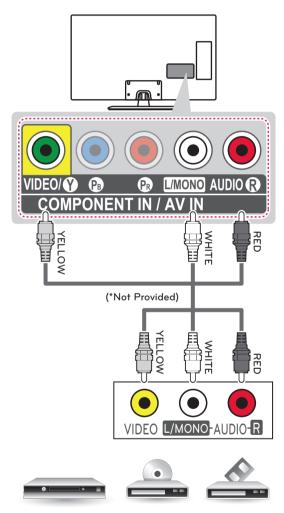
Composite Connection

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable as shown in the following illustration.



NOTE

 If you have a mono VCR, connect the audio cable from the VCR to the AUDIO L/MONO jack of the TV.



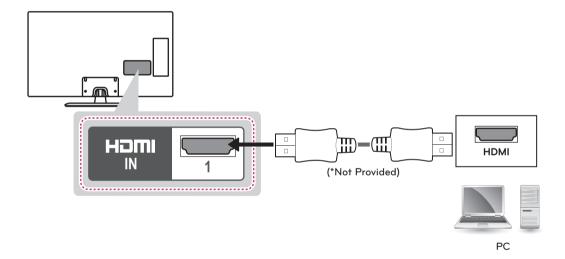
VCR / DVD / Blu-Ray / HD Cable Box

Connecting a PC



- It is recommended to use an HDMI connection for the best image quality.
- Depending on the graphics card, DOS mode video may not work if a HDMI to DVI Cable is in use.
- 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.
- The synchronization input form for Horizontal and Vertical frequencies is separate.
- · Depending on the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.
- If you use DVI to HDMI cable for PC, you have to use external speaker for PC audio sound.

HDMI Connection



Connecting to an Audio System

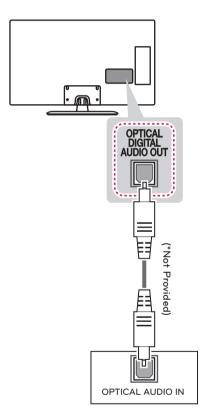
You can use an optional external audio system instead of the built-in speaker.

Digital Optical Audio Connection

Transmits a digital audio signal from the TV to an external device. Connect the external device and the TV with the optical audio cable as shown in the following illustration.



- Do not look into the optical output port. Looking at the laser beam may damage your vision.
- Audio with ACP (Audio Copy Protection) function may block digital audio output.

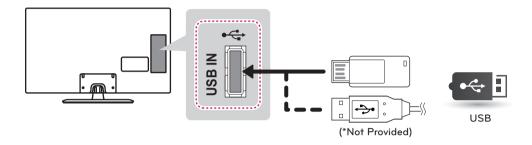




Digital Audio System

Connecting a USB Device

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



SIMPLINK Connection

Use the TV remote control to play and control the AV device connected with the HDMI cable through HDMI-CEC. Your TV only works with the devices that support HDMI-CEC. But only devices with the (S) MPLINK logo are supported.

Connect one end of the HDMI cable to the HDMI IN terminal on the rear of the TV and the other end to the SIMPLINK device.



NOTE -

- If the connected device does not support HDMI-CEC, the SIMPLINK feature is unavailable.
- To operate SIMPLINK, you should use a High Speed HDMI cable that supports CEC (Consumer Electronics Control) function.
- SIMPLINK may not work properly if you a third-party device that has an HDMI-CEC function.

Activating and Using the SIMPLINK menus

- 1 Press SIMPLINK to access the SIMPLINK
- 2 Press the Navigation buttons to scroll to one of the devices and press OK.



No.	Description
0	Displays the previously viewed TV channel.
2	Plays discs. When multiple discs are available, the title of the disc appears at the bottom of the screen.
3	Controls the connected VCR.
4	HDD recordings playback: Controls the recording stored in HDD.
6	Changes the audio output between Home theater speaker and TV speaker for the connected HTS

- A check mark appears in front of the selected device.
- Available devices display in a bright color.
- Unavailable devices display in grey.
- 3 Control the selected AV device.
 - Direct Play: After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.
 - Select AV device: Enables you to select one of the AV devices connected to the TV.
 - Disc playback: Control connected AV devices by pressing the Navigation buttons, OK, ▶, ■, **II**, **◄** and **▶**.
 - Power off all devices: When you power off the TV, all connected devices are turned off.
 - Switch audio-out: Offers an easy way to switch audio-out. (HTS only)
 - Sync Power on: When the equipment with SIMPLINK function connected HDMI terminal starts to play, The TV will automatically turn



NOTE -

- If you change the input source by pressing **INPUT**, the progressing function of the SIMPLINK device will stop.
- If you select a device that has the home theater feature, the sound output automatically switches to the home theater speaker and the TV speaker turns off.
- If a connected SIMPLINK home theater system does not play the audio from the TV, connect the DIGITAL AUDIO OUT terminal on the rear of the TV to the DIGITAL AUDIO IN terminal on the back of the SIMPLINK device with an optical cable.

MAINTENANCE

Cleaning Your TV

Clean your TV regularly to keep it at peak performance and to extend the product lifespan.



CAUTION -

- Before Cleaning, turn the power off and disconnect the power cord and all other cables.
- When the TV is left unattended or unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

Screen, frame, cabinet and stand

To remove dust or light dirt, wipe the surface with a dry, clean, and soft cloth.

To remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a dry cloth.



/!\ CAUTION-

- Do not push, rub, or hit the surface with your fingernail or a sharp object, as this may result in scratches on the screen and image distortions.
- Do not use any chemicals, such as waxes, benzene, alcohol, thinners, insecticides, air fresheners, lubricants, as these may damage the screen's finish and cause discoloration.
- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.

Power cord

Remove the accumulated dust or dirt on the power cord regularly.

TROUBLESHOOTING

General

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

Audio

Problem	Solution	
No sound is produced while images are displaying.	 Press VOL + or - button. Check if the sound is muted by pressing MUTE. Scroll to other channels. There may a problem with the broadcast. Check if the TV Speaker feature is activated in the menu option. 	
No output from one of the speakers	Adjust Balance in the menu option.	
Unusual sound from inside the TV is produced.	A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off. There is no problem with your product.	

Video

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

EXTERNAL CONTROL DEVICE SETUP

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

SPECIFICATIONS

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

Power requirement		AC 100 - 240 V ~ 50 / 60 Hz	
Television System		NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage		VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance		75 Ω	
Environment condition	Operating Temperature	0 - 40 °C	
	Operating Humidity	Less than 80 %	
	Storage Temperature	-20 - 60 °C	
	Storage Humidity	Less than 85 %	

MODELS		32LN520B (32LN520B-UA)	42LN5200 (42LN5200-UA)
	With stand	738 x 497 x 207 (mm)	968 x 629 x 236 (mm)
Dimensions		29.0 x 19.5 x 8.1 (inch)	38.1 x 24.7 x 9.2 (inch)
(W x H x D)	Without stand	738 x 449 x 79 (mm)	968 x 579 x 79 (mm)
		29.0 x 17.6 x 3.1 (inch)	38.1 x 22.7 x 3.1 (inch)
Weight	With stand	7.0 kg (15.4 lbs)	10.7 kg (23.5 lbs)
	Without stand	6.4 kg (14.1 lbs)	9.6 kg (21.1 lbs)
Current Value / Power consumption		1.3 A / 80 W	1.6 A / 110 W

	MODELC	32LN530B (32LN530B-UA)	39LN5300
MODELS		32LN5300 (32LN5300-UB)	(39LN5300-UB)
	With stand	738 x 497 x 207 (mm)	894 x 587 x 236 (mm)
Dimensions (W x H x D)		29.0 x 19.5 x 8.1 (inch)	35.1 x 23.1 x 9.2 (inch)
	Without stand	738 x 449 x 79 (mm)	894 x 537 x 79.0 (mm)
		29.0 x 17.6 x 3.1 (inch)	35.1 x 21.1 x 3.1 (inch)
Weight	With stand	7.0 kg (15.4 lbs)	9.7 kg (21.3 lbs)
	Without stand	6.4 kg (14.1 lbs)	8.6 kg (18.9 lbs)
Current Value / Power consumption		1.3 A / 80 W	1.5 A / 100 W

MODELS		42LN5300 (42LN5300-UB)	
	With stand	968 x 629 x 236 (mm)	
Dimensions		38.1 x 24.7 x 9.2 (inch)	
(W x H x D)	Without stand	968 x 579 x 79 (mm)	
		38.1 x 22.7 x 3.1 (inch)	
\\/\aimbt	With stand	10.7 kg (23.5 lbs)	
Weight	Without stand	9.6 kg (21.1 lbs)	
Current Value / Power consumption		1.6 A / 110 W	

MODELS		42LN5400 (42LN5400-UA)	47LN5400 (47LN5400-UA)
	With stand	968 x 629 x 236 (mm)	1,080 x 694 x 264 (mm)
Dimensions		38.1 x 24.7 x 9.2 (inch)	42.5 x 27.3 x 10.3 (inch)
$(W \times H \times D)$	Without stand	968 x 579 x 79 (mm)	1,080 x 642 x 80.5 (mm)
		38.1 x 22.7 x 3.1 (inch)	42.5 x 25.2 x 3.1 (inch)
\	With stand	10.7 kg (23.5 lbs)	14.5 kg (31.9 lbs)
Weight	Without stand	9.6 kg (21.1 lbs)	13.1 kg (28.8 lbs)
Current Value / Power consumption		1.1 A / 110 W	1.3 A / 130 W

MODELS		50LN5400 (50LN5400-UA)	55LN5400 (55LN5400-UA)	
	With stand	1,136 x 727 x 264 (mm)	1,250 x 790 x 297 (mm)	
Dimensions (W x H x D)	vvitn stand	44.7 x 28.6 x 10.3 (inch)	49.2 x 31.1 x 11.6 (inch)	
	Without stand	1,136 x 673 x 82.1 (mm)	1,250 x 737 x 79.1 (mm)	
		44.7 x 26.4 x 3.2 (inch)	49.2 x 29.0 x 3.1 (inch)	
Weight	With stand	15.6 kg (34.3 lbs)	21.2 kg (46.7 lbs)	
	Without stand	14.2 kg (31.3 lbs)	19.1 kg (42.1 lbs)	
Current Value / Power consumption		1.4 A / 140 W	1.6 A / 160 W	

HDMI (DTV) supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 v 400m	31.47	59.94
720 x 480p	31.50	60.00
1290 y 720n	44.96	59.94
1280 x 720p	45.00	60.00
1920 x 1080i	33.72	59.94
1920 X 10601	33.75	60.00
	26.97	23.976
	27.00	24.00
1020 v 1000p	33.71	29.97
1920 x 1080p	33.75	30.00
	67.432	59.94
	67.50	60.00

Component port connecting information

Component ports on the TV	Υ	P _B	P_R
	Υ	P _B	P _R
Video output ports on DVD player	Υ	B-Y	R-Y
	Υ	Cb	Cr
	Y	Pb	Pr

Component supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	
720 × 400;	15.73	59.94	
720 x 480i	15.73	60.00	
700 v 400	31.47	59.94	
720 x 480p	31.50	60.00	
1200 - 720-	44.96	59.94	
1280 x 720p	45.00	60.00	
1020 v 1000;	33.72	59.94	
1920 x 1080i	33.75	60.00	
	26.97	23.94	
	27.00	24.00	
1020 v 1000m	33.71	29.97	
1920 x 1080p	33.75	30.00	
	67.432	59.94	
	67.50	60.00	



The model and serial number of the TV is located on the back and one side of the TV.

Record it below should you ever need service.

MODEL	
SERIAL	



OWNER'S MANUAL

EXTERNAL CONTROL DEVICE SETUP

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

KEY CODES

• This feature is not available for all models.

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH +, PR +	R/C Button	45	Q.Menu	R/C Button
01	CH -, PR -	R/C Button	4C	List, - (ATSC Only)	R/C Button
02	Volume +	R/C Button	53	List	R/C Button
03	Volume -	R/C Button	5B	Exit	R/C Button
06	> (Arrow Key / Right Key)	R/C Button	61	Blue	R/C Button
07	< (Arrow Key / Left Key)	R/C Button	63	Yellow	R/C Button
08	Power	R/C Button	71	Green	R/C Button
09	Mute	R/C Button	72	Red	R/C Button
0B	Input	R/C Button	79	Ratio / Aspect Ratio	R/C Button
0E	SLEEP	R/C Button	91	AD (Audio Description)	R/C Button
0F	TV, TV/RAD	R/C Button	7A	User Guide	R/C Button
10 - 19	Number Key 0 - 9	R/C Button	7C	Smart / Home	R/C Button
1A	Q.View / Flashback	R/C Button	7E	SIMPLINK	R/C Button
1E	FAV (Favorite Channel)	R/C Button	8E	▶▶ (Forward)	R/C Button
20	Text (Teletext)	R/C Button	8F	◀ (Rewind)	R/C Button
21	T. Opt (Teletext Option)	R/C Button	AA	Info	R/C Button
28	Return (BACK)	R/C Button	AB	Program Guide	R/C Button
30	AV (Audio / Video) Mode	R/C Button	В0	► (Play)	R/C Button
39	Caption/Subtitle	R/C Button	B1	■ (Stop / Live TV)	R/C Button
40	Λ (Arrow Key / Cursor Up)	R/C Button	ВА	II (Freeze / Slow Play / Pause)	R/C Button
41	V (Arrow Key / Cursor Down)	R/C Button	BD	• (REC)	R/C Button
42	My Apps	R/C Button	DC	3D	R/C Button
43	Menu / Settings	R/C Button	9F	App / *	R/C Button
44	OK / Enter	R/C Button			

^{*} Key code 4C (0x4C) is available on ATSC/ISDB models which use major/minor channel. (For South Korea, Japan, North America, Latin America except Colombia models)

EXTERNAL CONTROL DEVICE SETUP

· Image shown may differ from your TV.

Connect the USB to Serial converter/RS-232C input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.

Note: The type of control port on the TV can be different between model series.

- * Please be advised that not all models support this type of connectivity.
- * Cable is not provided.

USB to Serial converter with USB Cable

USB Type

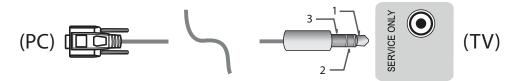


- LGTV supports PL2303 chip-based (Vendor ID: 0x0557, Product ID: 0x2008) USB to serial converter which is not made nor provided by LG.
- It can be purchased from computer stores that carry accessories for IT support professionals.

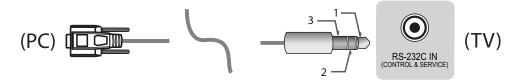
RS-232C with RS-232C Cable (Legacy)

Phone jack Type

- You need to purchase the phone-jack to RS-232 cable required for the connection between the PC and the TV, which is specified in the manual.
- * For other models, connect to the USB port.

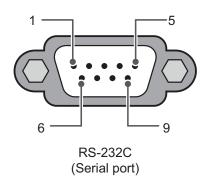


- This connection can only be used for the following models: 55/47/39LN5450-UA, 55/50/47/42LN5400-UA, 42/39/32LN5300-UA, and 37/32LN530B-UA.



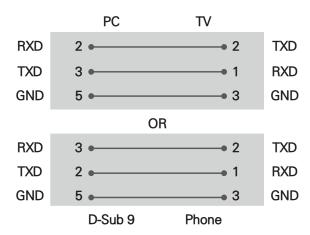
- This connection can only be used for the following models: 42/50PN4500-UA, 50/60PN5300-UF, 50/60PN6500-UA, and 60PN6550-UA.

Customer Computer



RS-232C configurations

3-Wire Configurations(Not standard)



Set ID

For Set ID number, see "Real Data Mapping" on p.6

- 1. Press **SETTINGS** to access the main menus.
- 2. Press the Navigation buttons to scroll to **OPTION** and press **OK**.
- 3. Press the Navigation buttons to scroll to **SET ID** and press **OK**.
- 4. Scroll left or right to select a set ID number and select CLOSE. The adjustment range is 1-99.
- 5. When you are finished, press EXIT.

Communication Parameters

• Baud rate : 9600 bps (UART)

Data length: 8 bitsParity: None

• Stop bit : 1 bit

Communication code : ASCII codeUse a crossed (reverse) cable.

Command reference list

(Depending on model)

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power off	k	а	00	13. Balance	k	t	00 to 64
02. Aspect Ratio	k	С	(p.7)	14. Color (Colour) Temperature	x	u	00 to 64
03. Screen Mute	k	d	(p.7)	15. ISM Method (Only Plasma TV)	j	p	(p.8)
04. Volume Mute	k	е	00 to 01	16. Energy Saving	j	q	00 to 05
05. Volume Control	k	f	00 to 64	17. Tune Command	m	а	(p.8)
06. Contrast	k	g	00 to 64	18. Channel (Programme) Add/Del(Skip)	m	b	00 to 01
07. Brightness	k	h	00 to 64	19. Key	m	С	Key Codes
08. Color/ Colour	k	i	00 to 64	20. Control Back Light, Control Panel Light	m	g	00 to 64
09. Tint	k	j	00 to 64	21. Input select (Main)	Х	b	(p.10)
10. Sharpness	k	k	00 to 32	22. 3D (Only 3D models)	х	t	(p.11)
11. OSD Select	k	I	00 to 01	23. Extended 3D (Only 3D models)	х	V	(p.11)
12. Remote Control Lock Mode	k	m	00 to 01				

^{*} Note: During USB operations such as DivX or EMF, all commands except Power(ka) and Key(mc) are not executed and treated as NG.

Transmission / Receiving Protocol

Transmission

[Command1][Command2][][Set ID][][Data][Cr]

[Command 1]: First command to control the TV. (j, k, m or x)

[Command 2]: Second command to control the TV.

[Set ID] : You can adjust the [Set ID] to choose desired monitor ID number in option menu.

Adjustment range in TV is 1 to 99. If [Set ID] value is selected to '0', every connected set

can be controlled.

* [Set ID] is indicated as decimal (1 to 99) on menu and as Hexadecimal (0x00 to 0x63) on

transmission/receiving protocol.

[DATA] : To transmit command data (hexadecimal). Transmit 'FF' data to read status of command.

[Cr] : Carriage Return - ASCII code '0x0D'

[] : Space – ASCII code '0x20'

OK Acknowledgement

[Command2][][Set ID][][OK][Data][x]

* The set transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][][Set ID][][NG][Data][x]

* The set transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data 00: Illegal Code

Real data mapping (Hexadecimal → **Decimal**)

- * When you enter the [data] in hexadecimal, refer to following conversion table.
- * Channel Tune (ma) Command uses two-byte hexadecimal value([data]) to select channel number.

 00 : Step 0
 32 : Step 50 (Set ID 50)
 FE : Step 254

 01 : Step 1 (Set ID 1)
 33 : Step 51 (Set ID 51)
 FF : Step 255

 ...
 ...
 ...

 0A : Step 10 (Set ID 10)
 63 : Step 99 (Set ID 99)
 01 00 : Step 256

 ...
 ...

 0F : Step 15 (Set ID 15)
 C7 : Step 199
 27 0E : Step 9998

 10 : Step 16 (Set ID 16)
 C8 : Step 200
 27 0F : Step 9999

- * Commands may work differently depending on model and signal.
- 01. Power (Command: k a)
- ► To control Power Off of the set.

Transmission[k][a][][Set ID][][Data][Cr]

Data 00: Power Off

Ack [a][][Set ID][][OK/NG][Data][x]

► To Show Power On. (Works TV is On Only)

Transmission [k][a][][Set ID][][FF][Cr]

Ack [a][][Set ID][][OK][01][x]

* Similarly, if other functions transmit 'FF' data based on this format, Acknowledgement feedback presents status about each function.

02. Aspect Ratio (Command: k c) (Main Picture Size)

► To adjust the screen format. (Main picture format) You can also adjust the screen format using the Aspect Ratio in the Q.MENU. or PICTURE menu.

Transmission [k][c][][Set ID][][Data][Cr]

Data 01: Normal screen 07: 14:9

(Europe, Colombia, Mid-East, (4:3)02 : Wide screen Asia except South Korea and Japan)

(16:9)

09: * Just Scan 04 : Zoom 05 : Zoom 2 0B: Full Wide

(Europe, Colombia, Mid-(Latin America East, Asia except South except Colombia Korea and Japan) Only)

06 : Set by Program/ 10 to 1F : Cinema Zoom 1 Original to 16

Ack [c][][Set ID][][OK/NG][Data][x]

- * Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.
- * In DTV/HDMI/Component mode (high-definition), Just Scan is available.
- * Full wide mode may work differently based on model and is supported for DTV fully, and ATV, AV partially.

03. Screen Mute (Command: k d)

► To select screen mute on/off.

Transmission [k][d][][Set ID][][Data][Cr]

Data 00: Screen mute off (Picture on)

Video mute off

01: Screen mute on (Picture off)

10: Video mute on

Ack [d][][Set ID][][OK/NG][Data][x]

* In case of video mute on only, TV will display On Screen Display(OSD). But, in case of Screen mute on, TV will not display OSD.

04. Volume Mute (Command: k e)

➤ To control volume mute on/off. You can also adjust mute using the MUTE button on remote control.

Transmission [k][e][][Set ID][][Data][Cr]

Data 00: Volume mute on (Volume off)

01: Volume mute off (Volume on)

Ack [e][][Set ID][][OK/NG][Data][x]

05. Volume Control (Command: k f)

▶ To adjust volume.

You can also adjust volume with the volume buttons on remote control.

Transmission [k][f][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

Ack [f][][Set ID][][OK/NG][Data][x]

06. Contrast (Command: k g)

To adjust screen contrast.

You can also adjust contrast in the PICTURE

Transmission [k][g][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

Ack [g][][Set ID][][OK/NG][Data][x]

07. Brightness (Command: k h)

► To adjust screen brightness. You can also adjust brightness in the PICTURE

Transmission [k][h][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

Ack [h][][Set ID][][OK/NG][Data][x]

08. Color/Colour (Command: ki)

► To adjust the screen Color(Colour). You can also adjust colour in the PICTURE menu.

Transmission [k][i][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

Ack [i][][Set ID][][OK/NG][Data][x]

09. Tint (Command: k j)

To adjust the screen tint.
You can also adjust tint in the PICTURE menu.

Transmission [k][j][][Set ID][][Data][Cr]

Data Red: 00 to Green: 64

Ack [j][][Set ID][][OK/NG][Data][x]

10. Sharpness (Command: k k)

➤ To adjust the screen sharpness. You can also adjust sharpness in the PICTURE menu.

Transmission [k][k][][Set ID][][Data][Cr]

Data Min: 00 to Max: 32

Ack [k][][Set ID][][OK/NG][Data][x]

11. OSD Select (Command: k I)

► To select OSD (On Screen Display) on/off when controlling remotely.

Transmission [k][l][][Set ID][][Data][Cr]

Data 01: OSD off 01: OSD on

Ack [I][][Set ID][][OK/NG][Data][x]

12. Remote control lock mode (Command: k m)

➤ To lock the front panel controls on the monitor and remote control.

Transmission [k][m][][Set ID][][Data][Cr]

Data 01 : Lock off 01 : Lock on

Ack [m][][Set ID][][OK/NG][Data][x]

* If you are not using the remote control, use this mode.

When main power is off & on (plug-off and plug-in, after 20 - 30 seconds), external control lock is released.

* In the standby mode (DC off by off timer or 'ka', 'mc' command), and if key lock is on, TV will not turn on by power on key of IR & Local Key.

13. Balance (Command: k t)

► To adjust balance.

You can also adjust balance in the AUDIO menu.

Transmission [k][t][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

Ack [t][][Set ID][][OK/NG][Data][x]

14. Color(Colour) Temperature (Command: x u)

➤ To adjust colour temperature. You can also adjust Color(Colour) Temperature in the PICTURE menu.

Transmission [x][u][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

Ack [u][][Set ID][][OK/NG][Data][x]

15. ISM Method (Command: j p) (Only Plasma TV)

► To control the ISM method. You can also adjust ISM Method in OPTION menu.

Transmission [j][p][][Set ID][][Data][Cr]

Data Min: 02: Orbiter

08: Normal

20: Color(Colour) Wash

Ack [p][][Set ID][][OK/NG][Data][x]

16. Energy Saving (Command: j q)

➤ To reduce the power consumption of the TV. You can also adjust Energy Saving in PICTURE menu.

Transmission [j][q][][Set ID][][Data][Cr]

Data

00 : Off

01: Minimum

02 : Medium

03: Maximum

04 : Auto

05: Screen off

* (Depending on model)

Ack [q][][Set ID][][OK/NG][Data][x]

17. Tune Command (Command: m a)

- This command may work differently depending on model and signal.
- For Europe, Mid-East, Colombia, Asia except South Korea and Japan, Model
- ► Select channel to following physical number.

Transmission [m][a][][Set ID][][Data 00][]
[Data 01][][Data 02][Cr]

* Analogue Terrestrial/Cable

[Data 00][Data 01] Channel Data Data 00: High byte channel data Data 01: Low byte channel data - 00 00 ~ 00 C7 (Decimal: 0 ~ 199)

Data 02 : Input Source (Analogue)

- 00 : Terrestrial TV (ATV)

- 80 : Cable TV (CATV)

* Digital Terrestrial/Cable/Satellite

[Data 00][Data 01]: Channel Data

Data 00 : High Channel data Data 01 : Low Channel data

- 00 00 ~ 27 0F (Decimal: 0 ~ 9999)

Data 02: Input Source (Digital)

- 10 : Terrestrial TV (DTV)

- 20 : Terrestrial Radio (Radio)

- 40 : Satellite TV (SDTV)

- 50 : Satellite Radio (S-Radio)

- 90 : Cable TV (CADTV)

- a0 : Cable Radio (CA-Radio)

- * Tune Command Examples:
- 1. Tune to the analogue terrestrial (PAL) Channel 10. Set ID = All = 00

Data 00 & 01 = Channel Data is 10 = 00 0a

Data 02 = Analogue Terrestrial TV = 00

Result = ma 00 00 0a 00

2. Tune to the digital terrestrial (DVB-T) Channel 01.

Set ID = AII = 00

Data 00 & 01 = Channel Data is 1 = 00 01

Data 02 = Digital Terrestrial TV = 10

Result = ma 00 00 01 10

3. Tune to the satellite (DVB-S) Channel 1000.

Set ID = AII = 00

Data 00 & 01 = Channel Data is 1000 = 03 E8

Data 02 = Digital Satellite TV = 40

Result = ma 00 03 E8 40

Ack [a][][Set ID][][OK][Data 00][Data 01] [Data 02][x][a][][Set ID][][NG][Data 00][x]

- For South Korea, North/Latin America except Colombia Model
- To tune channel to following physical/major/minor number.

Transmission [m][a][][0][][Data00][][Data01] [][Data02][][Data03][][Data04][][Data05][Cr]

Digital channels have a Physical, Major, and Minor channel number. The Physical number is the actual digital channel number, the Major is the number that the channel should be mapped to, and the Minor is the sub-channel. Since the ATSC tuner automatically maps the channel from the Major / Minor number, the Physical number is not required when sending a command in Digital.

* Analogue Terrestrial/Cable

Data 00: Physical Channel Number

- Terrestrial (ATV) : 02~45 (Decimal: 2 ~ 69)

- Cable (CATV): 01, 0E~7D (Decimal: 1, 14~125)

[Data 01 ~ 04]: Major/Minor Channel Number

Data 01 & 02: xx (Don't care) Data 03 & 04: xx (Don't care) Data 05: Input Source (Analogue)

- 00 : Terrestrial TV (ATV)

- 01 : Cable TV (CATV)

* Digital Terrestrial/Cable

Data 00 : xx (Don't care)

[Data 01][Data 02]: Major Channel Number

Data 01: High byte Channel Data

Data 02 : Low byte Channel Data

- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor Channel Number

Data 03 : High byte Channel Data Data 04 : Low byte Channel Data

Data 05: Input Source (Digital)

- 02 : Terrestrial TV (DTV) Use Physical Channel Number
- 06 : Cable TV (CADTV) Use Physical Channel Number
- 22 : Terrestrial TV (DTV) Don't Use Physical Channel Number
- 26 : Cable TV (CADTV) Don't Use Physical Channel Number
- 46 : Cable TV (CADTV) Use Major Channel Number Only (One Part Channel)

Two bytes are available for each major and minor channel data, but usually the low byte is used alone (high byte is 0).

- * Tune Command Examples:
- 1. Tune to the analogue cable (NTSC) channel 35.

Set ID = AII = 00

Data 00 = Channel Data is 35 = 23

Data 01 & 02 = No Major = 00 00

Data 03 & 04 = No Minor = 00 00

Data 05 = Analogue Cable TV = 01

Total = ma 00 23 00 00 00 01

2. Tune to the digital terrestrial (ATSC) channel 30-3.

Set ID = AII = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 30 = 00 1E

Data 03 & 04 = Minor is 3 = 00 03

Data 05 = Digital Terrestrial TV = 22

Total = ma 00 00 00 1E 00 03 22

Ack [a][][Set ID][][OK][Data 00][Data 01]
[Data 02][Data 03][Data 04][Data 05]

[x][a][][Set ID][][NG][Data 00][x]

- For Japan Model
- ➤ To tune channel to following physical/major/minor number.

Transmission [m][a][][0][][Data00][][Data01] [][Data02][][Data03][][Data04][][Data05][Cr]

* Digital Terrestrial/Satellite

Data 00: xx (Don't care)

[Data 01][Data 02]: Major Channel Number

Data 01: High byte Channel Data Data 02: Low byte Channel Data

- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor/Branch Channel Number (Don't care in Satellite)

Data 03: High byte Channel Data Data 04: Low byte Channel Data

Data 05: Input Source (Digital/Satellite for Japan)

- 02 : Terrestrial TV (DTV)
- 07 : BS (Broadcasting Satellite)
- 08 : CS1 (Communication Satellite 1)
- 09 : CS2 (Communication Satellite 2)
- **Tune Command Examples:**
- 1 Tune to the digital terrestrial (ISDB-T) channel 17-1.

Set ID = AII = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 17 = 00 11

Data 03 & 04 = Minor/Branch is 1 = 00 01

Data 05 = Digital Terrestrial TV = 02

Total = ma 00 00 00 11 00 01 02

2. Tune to the BS (ISDB-BS) channel 30.

Set ID = AII = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 30 = 00 1E

Data 03 & 04 = Don't Care = 00 00

Data 05 = Digital BS TV = 07

Total = ma 00 00 00 1E 00 00 07

This feature is varied based on the model.

Ack [a][][Set ID][][OK][Data 00][Data 01]

[Data 02][Data 03][Data 04][Data 05]

[x][a][][Set ID][][NG][Data 00][x]

18. Channel(Programme) Add/Del(Skip)

(Command: m b)

► To skip current channel(programme) for next time.

Transmission [m][b][][Set ID][][Data][Cr]

Data 00 : Del(ATSC,ISDB)/Skip(DVB) 01 : Add

Ack [b][][Set ID][][OK/NG][Data][x]

 Set the saved channel status to del(ATSC, ISDB)/ skip(DVB) or add.

- 19. Key (Command: m c)
- To send IR remote key code.

Transmission [m][c][][Set ID][][Data][Cr]

Data Key code - p.2.

Ack [c][][Set ID][][OK/NG][Data][x]

20. Control Back Light (Command: m g)

For LCD TV / LED TV

▶ To control the back light.

Transmission [m][g][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

Ack [g][][Set ID][][OK/NG][Data][x]

Control Panel Light (Command: mg)

- For Plasma TV
- ► To control the panel light.

Transmission [m][g][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

Ack [g][][Set ID][][OK/NG][Data][x]

21. Input select (Command: x b) (Main Picture Input)

➤ To select input source for main picture.

Transmission [x][b][][Set ID][][Data][Cr]

Data

00: DTV 01: CADTV 02 : Satellite DTV 10: ATV

ISDB-BS (Japan)

03: ISDB-CS1 (Japan)

04: ISDB-CS2 (Japan)

11: CATV

20: AV or AV1 21: AV2

40 : Component1 41: Component2

90: HDMI1 91: HDMI2 92: HDMI3 93: HDMI4

Ack [b][][Set ID][][OK/NG][Data][x]

* This function depends on model and signal.

22. 3D(Command: x t) (only 3D models) (Depending on model)

► To change 3D mode for TV.

Transmission [x][t][][Set ID][][Data 00][][Data 01] [][Data 02][][Data 03][Cr]

Data Structure

[Data 00] 00:3D On

01:3D Off

02 : 3D to 2D

03: 2D to 3D

[Data 01] 00: Top and Bottom

01: Side by Side

02: Check Board

03 : Frame Sequential

04 : Column interleaving

05: Row interleaving

[Data 02] 00 : Right to Left

01: Left to Right

[Data 03] 3D Effect(3D Depth): Min: 00 - Max: 14 (*transmit by Hexadecimal code)

- If [Data 00] is 00 (3D On), [Data 03] has no meaning.
- * If [Data 00] is 01 (3D off) or 02 (3D to 2D), [Data 01], [Data 02] and [Data 03] have no meaning.
- * If [Data 00] is 03(2D to 3D), [Data 01] and [Data 02] have no meaning.
- * All 3D pattern options ([Data 01]) may not be available according to broadcasting/video signal.

[Data 00]	[Data 01]	[Data 02]	[Data 03]
00	0	0	Х
01	Х	Х	Х
02	Х	Х	Х
03	Х	Х	0

X: don't care

Ack [t][][Set ID][][OK][Data00][Data01][Data02]

[Data03][x]

[t][][Set ID][][NG][Data00][x]

- 23. Extended 3D(Command: x v) (only 3D models) (Depending on model)
- ► To change 3D option for TV.

Transmission [x][v][][Set ID][][Data 00][]
[Data 01][Cr]

[Data 00] 3D option

00: 3D Picture Correction

01: 3D Depth (3D Mode is Manual Only)

02:3D Viewpoint

06: 3D Color Correction

07: 3D Sound Zooming

08 : Normal Image View

09 : 3D Mode (Genre)

[Data 01] It has own range for each 3D option determined by [Data 00].

1) When [Data 00] is 00

00 : Right to Left

01: Left to Right

2) When [Data 00] is 01, 02

Data Min: 0 - Max: 14 (*transmit by Hexadecimal

code)

Data value range(0 - 20) converts Viewpoint range (-10 - +10) automatically (Depending on model)

3) When [Data 00] is 06, 07, 08

00 : Off 01 : On

4) When [Data 00] is 09

00 : Standard 01 : Sport 02 : Cinema 03 : Extreme

04: Manual

Ack [v][][Set ID][][OK][Data00][Data01][x] [v][][Set ID][][NG][Data00][x]





OWNER'S MANUAL

LEDTV



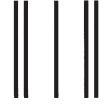
32LN520B 42LN5200 32LN530B 32LN5300 39LN5300 42LN5300 42LN5400 47LN5400 50LN5400

55LN5400

http://www.lg.com P/NO.SAC35595002 (1301-REV00)

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City	State / Province ZIP / Postal Code
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2. Telephone number () —	4. Model number
3. Date of purchase	5. Serial number
Month Day Year	6. Name of store where purchased



LG Electronics, Inc. LCD Television Limited Warranty - USA

Your LG LCD Television will be repaired or replaced, at LG's option, if it proves to be defective in material or work-manship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD

LABOR: One Year from the Date of Purchase.

PARTS: One Year from the Date of Purchase.

Replacement Units and Repair Parts may be new or factory remanufactured.

Replacement Units and Repair Parts are warranted for the remaining portion of the original unit's warranty period.

HOW SERVICE IS HANDLED

Please retain dealer's dated bill of sale or delivery ticket as evidence of the Date of Purchase for proof of warranty, and submit a copy of the bill of sale to the service person at the time warranty service is provided.

CONSUMER USER

Please Call 1-800-243-0000 (24 hours a day, 365 days per year) for instructions on getting the defective unit repaired or replaced.

Visit our website at:

http://www.lgservice.com

COMMERCIAL USER

Please Call (888) 865-3026 (Staffed during these times Mon. - Fri. 8:00AM \sim 5:00PM Central Standard Time) for instructions on getting the defective unit repaired or replaced.

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THIS LIMITED WARRANTY DOES NOT APPLY TO:

- damage caused in shipping or transit
- service required as a result of improper installation, including incorrect or insufficient AC supply (please consult the owner's manual for power supply requirements).
- installation or repair of antenna systems, cable converters, cable company supplied equipment, or other components in a video system
- set-up or adjustment on consumer controls, or damage caused by improper adjustments
- damage caused by other system components
- any unit that has been modified or incorporated into any other product
- replacement of batteries on the remote control.
- damage (including cosmetic damage), failure, loss or personal injury due to misuse, abuse, negligence, improper maintenance or storage, or to acts of nature or other causes beyond our control. (Causes beyond our control include but are not limited to lightning strike, power surges, power outages and water damage.)
- image burn-in
- repair or replacement of warranted parts by other than an LGE authorized service centers.
- units purchased or serviced outside of the U.S.A.
- product where the original factory serial numbers have been removed, defaced or changed in any way.
- product sold and labeled as "as is, where is" or similar disclaimer.

LCD Television Limited Warranty – USA (continued)

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To obtain Customer Assistance, Product Information, or Dealer or **Authorized Service Center location:**

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Please call 1-800-243-0000 (24 hours a day, 365 days per year) and select the appropriate option from the menu.

Or visit our website at: http://www.lgservice.com

COMMERCIAL USER

Please call (888) 865-3026 (Staffed during these times Mon. - Fri. 8:00AM ~ 5:00PM Central standard time) and select the appropriate option from the menu.

Or visit our website at: http://www.lgcommercial.com

CONCERNING PIXEL FUNCTIONALITY: An LCD Television contains hundreds of thousands of individual pixels. LCD displays typically contain a small number of pixels that do not function normally. Your display has been inspected and is in compliance with manufacturer's specifications, indicating that any pixel defects do not effect the operation or use of your display.

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Please have your product model number, serial number, and the date of purchase available.

Under some circumstances you may be asked to provide a reserve deposit to the LGE Service Center, using a credit card number as surety for advanced shipment. Your credit card will not be charged if you return the defective unit within 10 working days.

If a replacement unit is received, please use the carton and packaging from that unit in returning the defective unit to the LGE Service Center.

Parts and service in accordance with the LGE warranty is our responsibility and will be provided without charge. Other service requirements will be at the owner's expense. If you have problems in obtaining satisfactory warranty service, write or call the LGE Customer Interactive Service.

To assure proper credit and avoid unnecessary charges, you must obtain a Return Authorization before returning any product to the Factory Service Center. Contact the Customer Interactive Center for details.

Service for your LGE Television is provided through LG Electronics Alabama, Inc., the authorized LGE Service Center for the United States.

TO CONTACT LG ELECTRONICS BY MAIL:

LGE Customer Interactive Center P. O. Box 240007 201 James Record Road Huntsville, Alabama 35824 ATTN: CIC

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P/NO: 3840TWL056A (0704-REV01)

Printed in Korea