



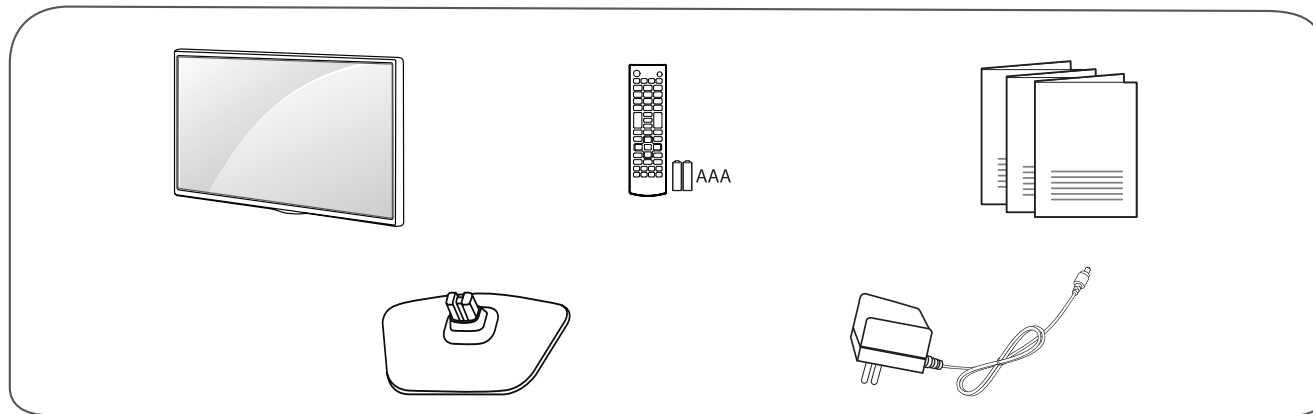
English
Easy Setup Guide

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

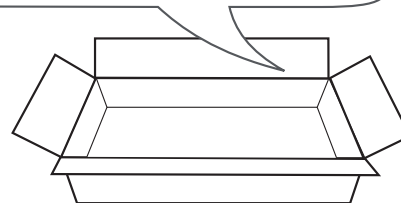
Français
Guide de configuration rapide

Veuillez lire ce manuel attentivement avant d'utiliser l'appareil et le conserver pour pouvoir vous y reporter ultérieurement.

LED TV
TÉLÉVISEUR À DEL
24LF452B

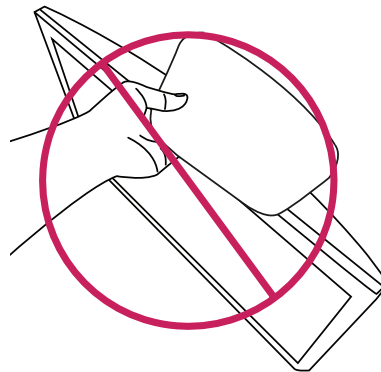
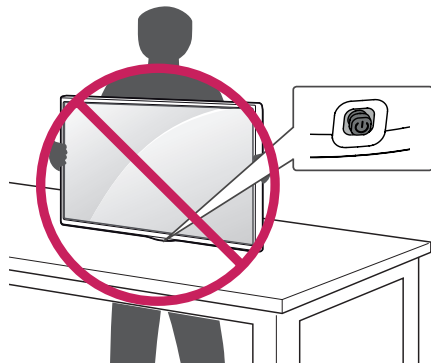
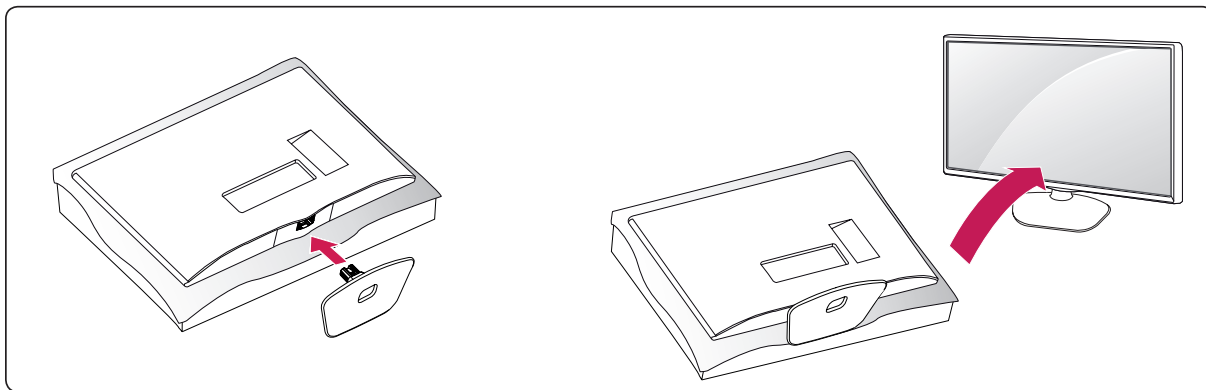


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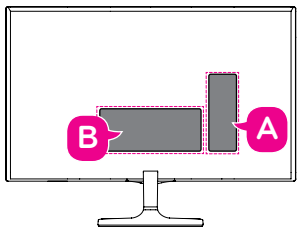


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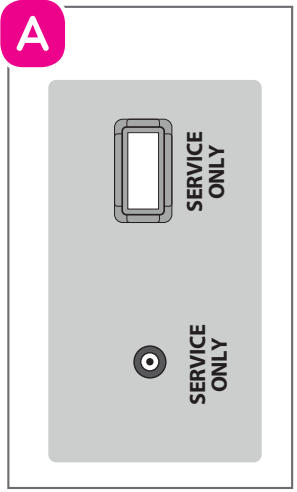
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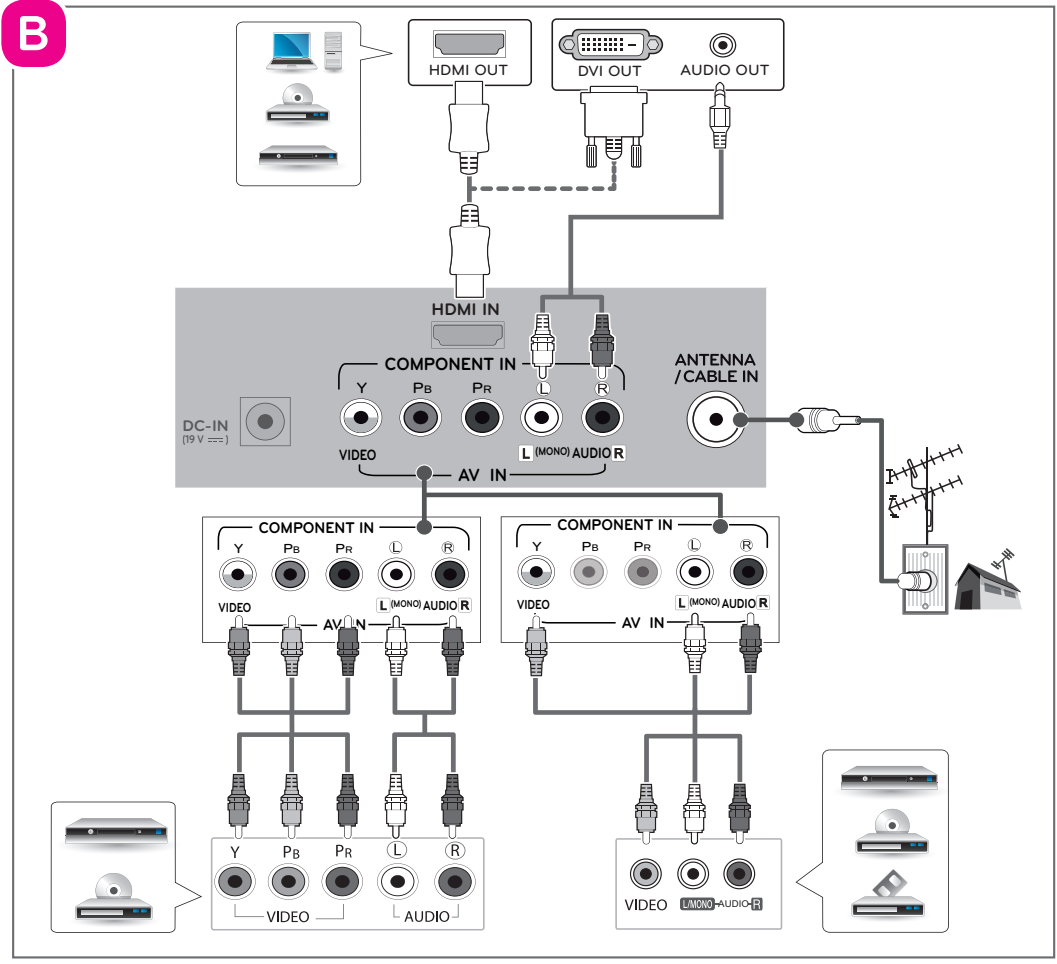
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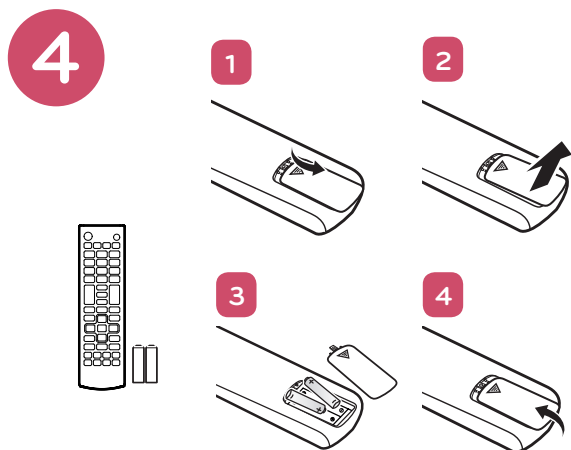
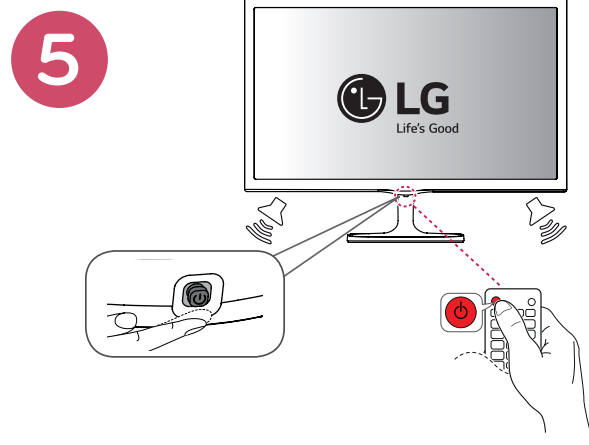
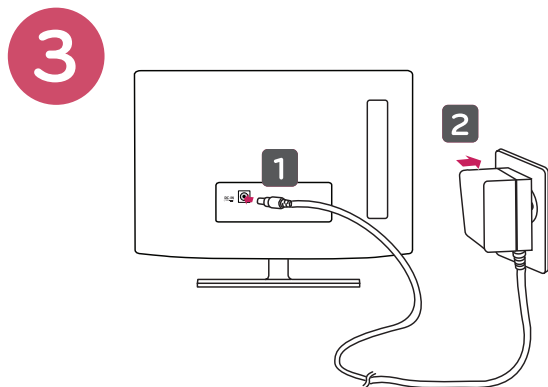


A



B





English

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.



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

TO SEE WEB MANUAL

To obtain detailed User Guide information, please visit www.lg.com. Read Safety and Reference.

SPECIFICATIONS

MODELS		24LF452B
Dimensions (W x H x D)	With stand	556.0 x 388.0 x 140.6 (mm)
		21.8 x 15.2 x 5.5 (inches)
	Without stand	556.0 x 345.2 x 53.1 (mm)
		21.8 x 13.5 x 2.0 (inches)
Weight	With stand	3.4 kg (7.4 lbs)
	Without stand	3.2 kg (7.0 lbs)

Information for Environmental Preservation

LGE. announced the 'LG Declaration for a Cleaner Environment' in 1994, and this ideal has served as a guiding managerial principle ever since. The Declaration is a foundation that has allowed us to undertake environmentally friendly activities in careful consideration of economic, environmental, and social aspects.

We promote activities for environmental preservation, and we specifically develop our products to embrace the concept of environment-friendly. We minimize the hazardous materials contained in our products. For example, there is no cadmium to be found in our product.

Information for recycling

This product may contain parts which could be hazardous to the environment. It is important that this product be recycled after use.

LGE. handles all waste product through an environmentally acceptable recycling method. There are several take-back and recycling systems currently in operation worldwide. Many parts will be reused and recycled, while harmful substances and heavy metals are treated by an environmentally friendly method. If you want to find out more information about our recycling program, please contact your local LG vendor or a corporate representative of LG.

We set our vision and policies on a cleaner world by selecting the issue of the global environment as a task for corporate improvement. Please visit our website for more information about our 'green' policies. <http://www.lg.com/global/sustainability/environment/take-back-recycling>.

Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <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.

Français

LICENCES

Les licences prises en charge peuvent varier selon le modèle. Pour des renseignements détaillés au sujet des licences, visitez le www.lg.com.



Fabriqué sous licence de Dolby Laboratories. Dolby et le symbole double-D sont des marques de commerce de Dolby Laboratories.



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

POUR AFFICHER LE GUIDE EN LIGNE

Pour des renseignements détaillés au sujet du guide d'utilisation, visitez le www.lg.com. Lire le document Sécurité et références.

CARACTÉRISTIQUES

MODÈLES		24LF452B
Dimensions (L x H x P)	Avec support	556,0 x 388,0 x 140,6 (mm)
		21,8 x 15,2 x 5,5 (po)
	Sans support	556,0 x 345,2 x 53,1 (mm)
		21,8 x 13,5 x 2,0 (po)
Poids	Avec support	3,4 kg (7,4 lb)
	Sans support	3,2 kg (7,0 lb)

INFORMATIONS SUR LA PROTECTION DE L'ENVIRONNEMENT

LGE. a publié sa *Déclaration en faveur d'un environnement plus propre* en 1994 et celle-ci est restée, depuis lors, un principe directeur de notre entreprise. Cette déclaration a servi de base à notre réflexion et nous a permis de prendre en compte à la fois les aspects économiques et sociaux de nos activités, tout en respectant l'environnement.

Nous encourageons les activités en faveur de la préservation de l'environnement et c'est dans cet esprit que nous développons nos produits : nous réduisons au minimum les matières dangereuses qui entrent dans leur composition et l'on ne trouve pas de cadmium, par exemple, dans nos produits.

INFORMATIONS SUR LE RECYCLAGE

Ce produit peut contenir des composants qui présentent un risque pour l'environnement. Il est donc important que ce produit soit recyclé après usage.

LGE. traite les produits en fin de cycle conformément à une méthode de recyclage respectueuse de l'environnement. Nous reprenons nos produits et les recyclons dans plusieurs sites répartis dans le monde entier. De nombreux composants sont réutilisés et recyclés, et les matières dangereuses ainsi que les métaux lourds sont traités selon un procédé écologique. Si vous souhaitez obtenir plus de renseignements sur notre programme de recyclage, veuillez contacter votre revendeur LG ou l'un de nos représentants.

Nous voulons agir pour préserver un monde plus propre et croyons au rôle de notre entreprise dans l'amélioration de l'environnement. Pour plus de renseignements sur notre politique « verte », visitez notre site : <http://www.lg.com/global/sustainability/environment/take-back-recycling>.

INFORMATIONS SUR LES LOGICIELS LIBRES

Pour obtenir le code source conformément aux dispositions de la licence publique générale, de la licence publique générale limitée, de la licence publique Mozilla et de toute autre licence régissant les logiciels à code source libre contenus dans cet appareil, visitez le site <http://opensource.lge.com>. En plus du code source, toutes les dispositions de licence, les exonérations de garantie et les avis de droits d'auteur peuvent être téléchargés. LG Electronics mettra également à votre disposition le code source libre sur CD-ROM pour un prix couvrant le coût de la distribution (coût du support, de l'expédition et de la manutention) sur simple demande par courriel à l'adresse opensource@lge.com. Cette offre est valable pendant trois (3) années à compter de la date d'achat du produit.



OWNER'S MANUAL

Safety and Reference

LED TV*

***LG LED TVs are LCD TVs with LED backlighting.**

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

24LF452B

www.lg.com

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 **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.***

IMPORTANT SAFETY INSTRUCTIONS

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



WARNING/CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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 device.

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.
Follow all instructions.
Heed all warnings.



- Do not allow the television to become wet.



- 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 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, induce vomiting and go to 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): Check the specification page of this owner's manual to be certain. Do not connect too many devices 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 device, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the device, 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 device. Do not move the TV with the power cord plugged in. Do not use a damaged or loose power cord. Be sure to 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.

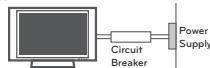


- Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).



Grounding

(Except for devices which are not grounded.) Ensure that you connect the earth ground wire to prevent possible electric shock (i.e. an 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, lightning rods, or gas pipes.



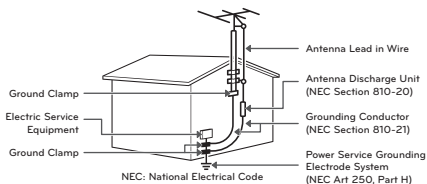
- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.
- Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to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

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.

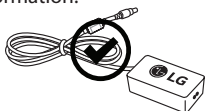
Ventilation

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 in. 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.
- If water or another substance enters the product (like an AC adapter, power cord, or TV), disconnect the power cord and contact the service center immediately. Otherwise, this may result in fire or electric shock.



- Use only an authorized AC adapter and power cord approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction, or product deformation.



- Never disassemble the AC adapter or power cord. This may result in fire or electric shock.



- Keep the product away from direct sunlight.
- Never touch this apparatus or antenna during a 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 DEVICE FROM THE MAIN POWER

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

• Batteries

Store the accessories (battery, etc.) in a safe location out of the reach of children.

- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble, or allow the batteries to overheat.
- Do not use high voltage electrical equipment near the TV, (e.g. a bug zapper). This may result in product malfunction.

• Dot Defect

The 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

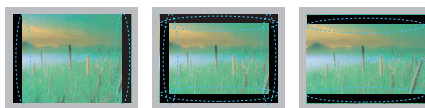
Cracking noise A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.

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 upon 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.
- Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.
- If 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.

FCC NOTICE

(For USA)

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.

FCC Radio Frequency Interference Requirements (for UNII devices)

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

FCC RF Radiation Exposure Statement

[For having wireless function (WLAN, Bluetooth,...)]
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Industry Canada Statement

(For Canada)
[For having wireless function (WLAN, Bluetooth,...)]
This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:
1. this device may not cause interference and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

IC Radiation Exposure Statement

(For Canada)
[For having wireless function (WLAN, Bluetooth,...)]
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the radiator & your body.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

WARNING

(For Canada)

[For product having the wireless function using 5 GHz frequency bands]

- The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- The maximum antenna gain permitted for devices in the bands 5250–5350 MHz and 5470–5725 MHz shall comply with the e.i.r.p. limit; and
- The maximum antenna gain permitted for devices in the band 5725–5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
- High-power radars are allocated as primary users (i.e. priority users) of the bands 5250–5350 MHz and 5650–5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

NOTE TO CABLE/TV INSTALLER

(For USA and Canada)

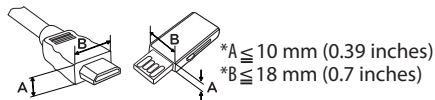
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (USA). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to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

PREPARING

NOTE

- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.
- The items supplied with your product may vary depending upon 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 flash drive does not fit into your TV's USB port.

- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types
 - High-Speed HDMI[®]/TM cable
 - High-Speed HDMI[®]/TM cable with Ethernet



⚠ CAUTION

- Do not use any unapproved items to ensure the safety and product's lifespan.
- 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.
- 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.

MAINTENANCE

Cleaning Your TV

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

⚠ CAUTION

- Make sure to turn the power off and disconnect the power cord and all other cables first.
- When the TV is left unattended 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.

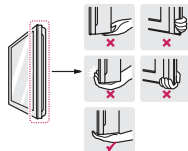
Power Cord

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

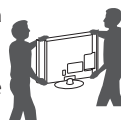
LIFTING AND MOVING THE TV

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

- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.
- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grille area.



- Use at least two people to move a large TV.
- When transporting the TV by hand, hold the TV as shown in the following illustration.
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright; never turn the TV on its side or tilt towards the left or right.
- When handling the TV, be careful not to damage the protruding joystick button.

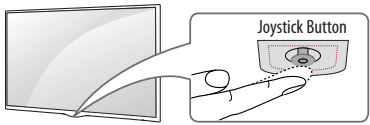


⚠ CAUTION

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not place the product on the floor with its front facing down without padding. Failure to do so may result in damage to the screen.
- Do not move the TV by holding the cable holder or cable management, as the cable holders may break, and injuries and damage to the TV may occur. (Depending upon model)

USING THE JOYSTICK BUTTON

(Image shown may differ from your TV.)
You can operate the TV by pressing the button or moving the joystick left, right, up, or down.



Basic functions

	Power On	When the TV is turned off, place your finger on the joystick button, press it once, and release it.
	Power Off	When the TV is turned on, place your finger on the joystick button, press it once for a few seconds, and release it.
	Volume Control	Place your finger on the joystick button and move it left or right to adjust the volume level.
	Channels Control	Place your finger on the joystick button and move it up or down to adjust the channel.

! NOTE

- Move the joystick button up, down, left, or right. Be careful not to press it. If you press it first, you cannot adjust the volume or scroll through the channels.

Adjusting the menu

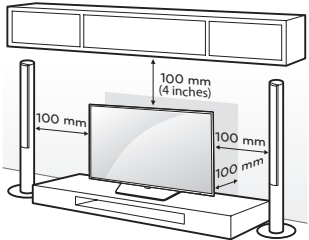
When the TV is turned on, press the joystick button one time. You can adjust the menu items moving the joystick button up, down, left, or right.

	Turns the power off.
	Accesses the main menu. (Depending upon model)
	Clears on-screen displays and returns to TV viewing.
	Changes the input source.

MOUNTING ON A TABLE

(Image shown may differ from your TV.)

- 1 Lift and tilt the TV into its upright position on a table.
 - Leave a 100 mm (4 inches) (minimum) space from the wall for proper ventilation.



- 2 Connect the power cord to a wall outlet.

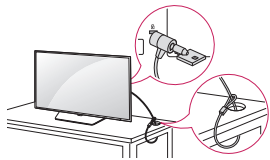
! CAUTION

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

Using the Kensington Security System (optional)

(Depending upon model)

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.

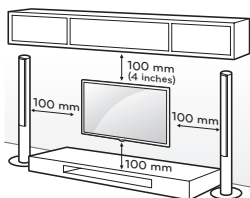


! NOTE

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

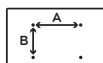
MOUNTING ON A WALL

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. When you do not use LG's wall mount bracket, use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices.



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	24LF452B
VESA (A x B)	75 X 75
Standard screw	M4
Number of screws	4
Wall mount bracket (optional)	RW120



CAUTION

- Disconnect the power before moving or installing the TV. Otherwise electric shock may occur.
- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- 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. When using a third-party wall mount, it is not covered by the warranty.
- Do not overtighten 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 on 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 upon the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount.

CONNECTIONS (Notifications)

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 may differ from the model.
- 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.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the PICTURE menu until the picture is clear.
- Depending upon the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.

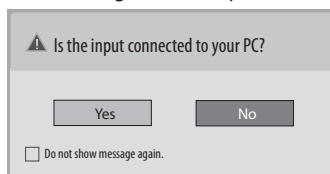
Antenna connection

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.

Connecting to a PC

NOTE

- If you want to use HDMI-PC mode, you must set the **Input Label** to PC mode.
- The **OSD (On Screen Display)** is displayed on the screen as shown below.
 - » When turning the product on in **HDMI** input.
 - » When switching to **HDMI** input.



- If you select **Yes** the size and image quality are optimised for your PC.
- If you select **No** the size and image quality are optimised for the AV device (DVD player, set-top box).
- If you select **Do not show message again** this message does not appear until the TV is reset. You can change the set value in **SETTINGS ► INPUT ► Input Label**.

Other Connections

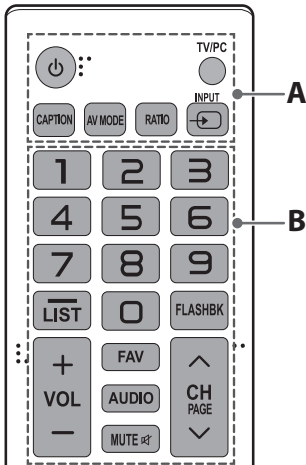
Connect your TV to external devices. For the best picture and audio quality, connect the external device and the TV with the HDMI cable. Depending upon the model, a cable may not be provided.

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 (+) and (-) ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse.remote sensor.

CAUTION

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



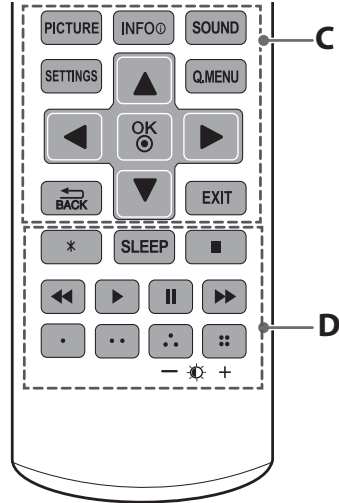
A

- ⏻ (POWER)** Turns the TV on or off.
- TV/PC** Selects TV or PC mode.
- CAPTION** Activates or deactivates the subtitles.
- AV MODE** Selects an AV mode.
- RATIO** Resizes an image.
- ⏮ INPUT** Selects the input mode.

B

- Number buttons** Enters numbers.
- (Dash)** Inserts a dash between numbers such as 2-1 and 2-2.
- LIST** Accesses the saved channel list.

- FLASHBK** Alternates between the two last channels selected. (pressing repeatedly).
- + VOL —** Adjusts the volume level.
- FAV** Accesses your favorite channel list.
- AUDIO** Digital signal: Changes the audio language.
Analog signal: Changes the MTS sound.
- MUTE** Mutes all sounds.
- ^ CH v** Scrolls through the saved channels.
- ^ PAGE v** Moves to the previous or next screen.



C

- PICTURE** Changes the image mode.
- INFO ⓘ** Shows information on the current program.
- SOUND** Changes the sound mode.
- SETTINGS** Accesses the main menu.
- Q.MENU** Accesses the quick menu.
- Navigation buttons** (▲, ▼, ◀, ▶) Scrolls through menus or options.
- OK ⓘ** Selects menus or options and confirms your input.
- ⏮ BACK** Returns to the previous screen.
- EXIT** Clears all on-screen displays and returns to TV viewing.

D

- * Not functional.**
- SLEEP** Sets the length of time until the TV turns off.
- Control buttons** (■, ◀, ▶, ||, ▶▶) Controls the compatible devices.
- ⏮ ⏭ ⏮ ⏭** These access special functions in some menus.
- Backlight** (— ⓘ +) Adjusts the brightness of the screen by controlling the screen backlight.

SETTINGS

To set up the channels automatically

SETTINGS ⇒ CHANNEL ⇒ Auto Tuning

Memorizes automatically the channels being broadcast.

- The channels will not be memorized properly if the antenna/cable is not installed correctly.
- Auto Tuning memorizes the channels that are currently being broadcast.
- If Lock System is turned on, a pop-up window will appear asking for password.

To select picture mode

SETTINGS ⇒ PICTURE ⇒ Picture Mode

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

- **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.
- **APS** 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.
- **Photo** Displays the optimum picture for photo (still image).
- **Expert 1, 2** Adjusts the detailed video image settings for video experts as well as general viewers.

To set advanced control

SETTINGS ⇒ PICTURE ⇒ Picture Mode

⇒ Advanced Control or Expert Control

For each picture mode, screen can be calibrated; or for a special screen, picture settings can be adjusted

Select the desired **Picture Mode**.

- **Dynamic Contrast** Adjusts the contrast to the optimal level according to the brightness of the image.
- **Dynamic Color** Adjusts colors to make the image appear in more natural colors.
- **Skin Color** Skin color spectrum can be separately set to implement the skin color as 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** Selects the range of colors that can be expressed.
- **Edge Enhancer** Shows clearer and distinctive yet natural edges of the video.
- **Color Filter** Filters a specific color spectrum in RGB colors to fine-tune color saturation and hue accurately.
- **Color Temperature** Adjusts the overall tone of the screen as desired. In Expert mode, detailed fine-tuning can be set via Gamma method, etc.
- **Color Management System** This is a system that experts use when they adjust color with a test pattern. They can select from six color areas (Red / Green / Blue / Cyan / Magenta / Yellow) without affecting other colors. For normal images, adjustments may not result in noticeable color changes.
- Depending upon input signal or other picture settings, the range of detailed items for adjustment may differ.

To set additional picture options

SETTINGS ⇒ PICTURE ⇒ Picture Mode ⇒ Picture Option

[Depending upon model] Adjusts detailed setting for images.

- **Noise Reduction** Eliminates noise in the picture.
- **MPEG Noise Reduction** Eliminates noise generated while creating digital picture signals.
- **Black Level** Adjusts the brightness and contrast of the screen to suit the black level.
- **Real Cinema** Optimizes the screen for movie viewing.
- **Motion Eye Care** [Depending upon model] Saves power consumption by adjusting the brightness corresponding to the movement of the image on the screen.
- Depending upon input signal or other picture settings, the range of detailed items for adjustment may differ.

To use Energy Saving feature

SETTINGS ⇒ PICTURE ⇒ Energy Saving

Saves electric power by adjusting screen brightness.

- **Off** Turns off the Energy Saving.
- **Minimum/Medium/Maximum** Applies the pre-set Energy Saving.
- **Screen off** Screen is turned off and only sound is played. Press any button except Power button on the remote control to turn the screen back on.

To use TV speaker

SETTINGS ⇒ AUDIO ⇒ TV Speaker

[Depending upon model] Sound is output through the TV speaker.

To set password

SETTINGS ⇒ LOCK ⇒ Set Password

Sets or changes the TV password.
The initial password is set to **0000**.

TT to set the caption

SETTINGS ⇒ OPTION ⇒ Caption

View captions when the TV station provides captioned programming. Program captions work only on digital/analog broadcasts or external input.

Change **Caption** to **On** and select caption settings.

- **Mode**

CC 1-4 (Closed Captioning) / **Text 1-4** 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), two Text (T1, T2). Field 2 data channels: two Captions (CC3, CC4), two Text (T3, T4).

Service 1-6 This is only available for the digital broadcasting system.

- **Digital Option**

Set up the size and color of the captions on **Digital Option**. Please select **Set by Program** or **Custom**. Select **Custom** to adjust minute options such as the captions' size and color.

To return to initial settings

SETTINGS ⇒ OPTION ⇒ Initial Setting

Returns to initial default mode by deleting all optional setup. Once initialization is completed, the TV will turn off and on by itself.

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

TO SEE WEB MANUAL

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

LICENSES

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



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OPEN SOURCE SOFTWARE NOTICE INFORMATION

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

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

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

TROUBLESHOOTING

- Cannot control the TV with the remote control.
 - Check the remote control sensor on the product and try again.
 - Check if there is any obstacle between the product and the remote control.
 - Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖)
- No image display and no sound is produced.
 - Check if the product is turned on.
 - Check if the power cord is connected to a wall outlet.
 - Check if there is a problem in the wall outlet by connecting other products.
- The TV turns off suddenly.
 - Check the power control settings. The power supply may be interrupted.
 - Check if the **Sleep Timer/Timer Power off** is activated in the **Timers** settings.
 - If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

SPECIFICATIONS

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

Models	Dimensions (W x H x D)		Weight		Power consumption	Power requirement
	With stand	Without stand	With stand	Without stand		
24LF452B	556.0 X 388.0 X 140.6 (mm)	556.0 X 345.2 X 53.1 (mm)	3.4 (kg)	3.2 (kg)	21 W	19 V --- 1.2 A
	21.8 X 15.2 X 5.5 (Inches)	21.8 X 13.5 X 2.0 (Inches)	7.4 (lbs)	7.0 (lbs)		

AC/DC Adapter

24LF452B	
Manufacturer : Honor	Model : ADS-40FSG-19 19025GPCU-1
In : AC 100 ~ 240 V ~ 50/60 Hz Out : DC 19 V --- 1.3 A	

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 °C to 40 °C (32 °F to 104 °F)

Operating Humidity Less than 80 %

Storage Temperature -20 °C to 60 °C (-4 °F to 140 °F)

Storage Humidity Less than 85 %

HDMI (PC) supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 400	31.468	70.080
640 x 480	31.469 37.500	59.940 75.000
800 x 600	37.879 46.875	60.317 75.000
1024 x 768	48.363 60.023	60.004 75.029
1280 x 800	49.702	59.810
1366 x 768	47.717	59.790

- The optimal display resolution is 1366 X 768 @ 60 Hz. The optimal timing in each mode is vertical frequency 60 Hz.

Component port connecting information

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

HDMI (DTV) supported mode

Resolution	Horizontal frequency(kHz)	Vertical frequency(Hz)
720 x 480	31.469 31.500	59.940 60.000
720 x 576	31.250	50.000
1280 x 720	37.500 44.960 45.000	50.000 59.940 60.000
1920 x 1080	33.720 33.750 28.125 27.000 33.750 56.250 67.430 67.500	59.940 60.000 50.000 24.000 30.000 50.000 59.940 60.000

Component supported mode

Resolution	Horizontal frequency(kHz)	Vertical frequency(Hz)
720 x 480	15.730 15.750 31.470 31.500	59.940 60.000 59.940 60.000
720 x 576	15.625 31.250	50.000 50.000
1280 x 720	44.960 45.000 37.500	59.940 60.000 50.000
1920 x 1080	33.720 33.750 28.125 56.250 67.432 67.500	59.940 60.000 50.000 50.000 59.940 60.000

INFORMATION

Information for Environmental Preservation

LGE. announced the 'LG Declaration for a Cleaner Environment' in 1994, and this ideal has served as a guiding managerial principle ever since. The Declaration is a foundation that has allowed us to undertake environmentally friendly activities in careful consideration of economic, environmental, and social aspects.

We promote activities for environmental preservation, and we specifically develop our products to embrace the concept of environment-friendly.

We minimize the hazardous materials contained in our products. For example, there is no cadmium to be found in our product.

Information for recycling

This product may contain parts which could be hazardous to the environment. It is important that this product be recycled after use.

LGE. handles all waste product through an environmentally acceptable recycling method. There are several take-back and recycling systems currently in operation worldwide. Many parts will be reused and recycled, while harmful substances and heavy metals are treated by an environmentally friendly method. If you want to find out more information about our recycling program, please contact your local LG vendor or a corporate representative of LG.

We set our vision and policies on a cleaner world by selecting the issue of the global environment as a task for corporate improvement. Please visit our website for more information about our 'green' policies.

<http://www.lg.com/global/sustainability/environment/take-back-recycling.jsp>

Service

Unplug the monitor from the wall outlet and refer servicing to qualified service personnel when :

- The power cord or plug is damaged or frayed.
- Liquid has been spilled into the monitor.
- The monitor has been exposed to rain or water.
- The monitor does not operate normally following the operating instructions. Adjust only those controls that are covered in the operating instructions. An improper adjustment of other controls may result in damage and often requires extensive work by a qualified technician to restore the monitor to normal operation.
- The monitor has been dropped or the cabinet has been damaged.
- The monitor exhibits a distinct change in performance.
- Snapping or popping from the monitor is continuous or frequent while the monitor is operating. It is normal for some monitors to make occasional sounds when being turned on or off, or when changing video modes.

Do not attempt to service the monitor yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

CHILD SAFETY:

PROPER TELEVISION PLACEMENT MATTERS



THE CONSUMER ELECTRONICS INDUSTRY CARES

- Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
- As you enjoy your television, please note that all televisions – new and old- must be supported on proper stands or installed according to the manufacturer's recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.



TUNE IN TO SAFETY

- **ALWAYS** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
- **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
- **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
- **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.



WALL OR CEILING MOUNT YOUR TELEVISION

- **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
- **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
- **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
- **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate. Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
- Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.



MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

- Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
- **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
- **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
- **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.



LG Customer Information Center

For inquiries 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

The model and serial numbers of the TV are located on the back and one side of the TV.
Record them below should you ever need service.

MODEL _____
SERIAL _____

Declaration of Conformity

Trade Name	LG
Model	24LF452B
Responsible Party	LG Electronics Inc.
Address	1000 Sylvan Ave. Englewood Cliffs NJ 07632 U.S.A
TEL	201 - 266 - 2534



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 qualify for ENERGY STAR®. Refer to ENERGYSTAR.gov for more information on the ENERGY STAR® program.