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OWNER'S MANUAL

Safety and Reference

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* LG LED TV applies LCD screen with LED backlights. Please read this manual carefully before operating your TV and retain it for future reference.

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28TK420S 24TL520S 24TL510S 28TL520S 28TL510S



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Safety precautions

Please read these safety precautions carefully before using the product.

WARNING

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

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

Precautions in installing the product

WARNING

- Keep away from heat sources like electrical heaters.
 - ► Electrical shock, fire, malfunction or deformation may occur.
- 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.
- Do not put heavy objects on the product or sit upon it.
 - ► If the product collapses or is dropped, you may be injured. Children must pay particular attention.
- Do not leave the power or signal cable unattended on the pathway.
 - ► The passerby can falter, which can cause electrical shock, fire, product breakdown or injury.
- Install the product in a neat and dry place.
 - Dust or moisture can cause electrical shock, fire or product damage.
- If you can smell smoke or other odors or hear a strange sound unplug the power cord and contact the service center.
 - ► If you continue to use without taking proper measures, electrical shock or fire can occur.
- If you dropped the product or the case is broken, turn off the product and unplug the power cord.
 - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.
- Do not drop an object on or apply impact to the product. Do not throw any toys or objects on the product screen.
 - It can cause injury to human, problem to product and damage the display.

- Do not let the product fall or drop when connecting it with an external device.
 - ► This may cause injury and/or damage to the product.
- When connecting it with a game device, keep a distance of four times as long as the diagonal measurement of the screen from the device.
 - ▶ If the product falls because of the short cable, this may cause injury and/or damage to the product.
- Leaving a fixed image on the screen for a long time may cause damage to the screen and cause image burn-in. To use the product for a long period of time, use a screen saver on the PC or utilize the residual image prevention function on the product, and when the product is not used, turn off the power. Burn-in and related problems are not covered by the warranty on this 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.

- Make sure the product ventilation hole is not blocked. Install the product in a suitably wide place (more than 100 mm from the wall).
 - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat.
- Do not block the ventilation hole of the product by a tablecloth or curtain.
 - The product can be deformed or fire can break out due to overheating inside the product.
- Install the product on a flat and stable place that has no risk of dropping the product.
 - If the product is dropped, you may be injured or the product may be broken.
- Install the product where no EMI occurs.
- Keep the product away from direct sunlight.
 - ► The product can be damaged.
- If you install the product in a place that does not meet the
 recommended conditions, this may cause serious damage to the
 product's picture quality, life cycle and appearance. Please check
 with LG or a qualified installer before installing. This caution applies
 to a place where there is an abundance of fine dust or oil mist,
 chemical substances are used, the temperature is very high or low,
 the humidity is very high, or the product is likely to remain turned
 on for a long period of time (airport and train station), failure to do
 so will invalidate the warranty.
- Do not install the product in an area with poor ventilation (e.g.on a bookshelf, in a closet) or outside and avoid placing on cushions or carpets.
- In addition, do not install it where there are heating objects such as lighting equipment.

Precautions to the AC adapter and electrical power

WARNING

- If water or any foreign substance goes inside the product (TV, monitor, power cord, or AC adapter), disconnect the power cord immediately and contact the service center.
 - Otherwise, this may cause a fire or electric shock due to damage to the product.
- Do not touch the power plug or AC adapter with wet hands. If the pins of the plug are wet or dusty, wipe and dry them before use.
 - ▶ Otherwise, this may cause a fire or electric shock.
- Make sure to completely insert the power cord into the AC adapter.
 - ► If loosely connected, the poor connection may cause a fire or electric shock.
- Be sure to use power cords and AC adapters provided or approved by LG Electronics, Inc.
 - The use of non-approved products may cause a fire or electric shock.
- When unplugging the power cord, always pull it by the plug. Do not bend the power cord with excessive force.
 - The power line can be damaged, which may cause electric shock or fire.
- Be careful not to step or place heavy objects (electronic appliances, clothing, etc.) on the power cord or AC adapter. Be careful not to damage the power cord or AC adapter with sharp objects.
 - ► Damaged power cords may cause a fire or electric shock.
- Never disassemble, repair or modify the power cord or AC adapter.
 This may cause a fire or electric shock.
- Make sure to connect the power cable to the grounded current.
- ► You may be electrocuted or injured.
- Use the rated voltage only.
 - ► The product can be damaged, or you may be electrocuted.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous.
 - ► It can cause electric shock.
- Do not connect several extension cords, electrical appliances or electrical heaters to a single outlet. Use a power bar with a grounding terminal designed for exclusive use with the computer.
 - ► A fire can break out due to overheating.
- Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.
 - You may be electrocuted due to excess moisture.

- If you don't intend to use the product for a long time, unplug the power cable from the product.
 - ► Covering dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- Fix the power cable completely.
 - ▶ If the power cable is not fixed completely, a fire can break out.
- Do not insert a conductor (like a metal chopstick) into one end of the power cable while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal.
 - ► You may be electrocuted.
- The AC Cord is the disconnecting device.
- Please make sure the device is installed near the wall outlet to which it is connected and that the outlet is easily accessible.
- 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.

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• Be sure to keep the outlet, AC adapter, and pins of the power plug clean from dust and etc.

► This may cause a fire.

- Do not unplug the power cord while the product is in use.
 Electrical shock can damage the product.
- Use only the power cord supplied with the unit. If you use another power cord, make sure that it is certified by the applicable national standards when not provided by the supplier. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized repair service provider for a replacement.

Precautions in moving the product

A WARNING

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- Make sure to turn off the product.
 - ► You may be electrocuted or the product can be damaged.
- Make sure to remove all cables before moving the product.
 - ► You may be electrocuted or the product can be damaged.
- Make sure the panel faces forward and hold it with both hands to move. If you drop the product, the damaged product can cause electric shock or fire. Contact an authorized the service center for repair.
- Make sure the product is turned off, unplugged and all cables have been removed. It may take 2 or more people to carry larger apparatus. Do not press against or put stress on the front panel of the apparatus.

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A CAUTION

- Do not shock the product when moving it.
 - ► You may be electrocuted or the product can be damaged.
- Do not dispose the product-packing box. Use it when you move.

Precautions in using the product

WARNING

- Do not disassemble, repair or modify the product at your own discretion.
 - ► Fire or electric shock accident can occur.
 - ► Contact the service center for check, calibration or repair.
- When the display is to be left unattended for an extended period of time, unplug it from the wall outlet.
- Keep the product away from water.
 - ► Fire or electric shock accident can occur.
- Do not shock or scratch the front and sides of the screen with metallic objects.
 - ▶ Otherwise, it may cause damage to the screen.
- Avoid high temperatures and humidity.

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- Do not put or store inflammable substances near the product.
 - There is a danger of explosion or fire due to careless handling of the inflammable substances.
- When cleaning the product, unplug the power cord and scrub gently with a soft cloth to prevent scratching. Do not clean with a wet cloth or spray water or other liquids directly onto the product. An electric shock may occur. (Do not use chemicals such as benzene, paint thinners or alcohol)
- Take a rest from time to time to protect your vision.
- Keep the product clean at all times.
- Take a comfortable and natural position when working with a product to relax the muscles.
- Take a regular break when working with a product for a long time.
- 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.
- · Keep the proper distance from the product.
 - Your vision may be impaired if you look at the product too closely.

- Set the appropriate resolution and clock by referring to the User's Guide.
 - ► Your vision can be impaired.
- Use authorized detergent only when cleaning the product. (Do not use benzene. thinner or alcohol.)
 - Product can be deformed.
- 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).
- Batteries should not be exposed to excessive heat. For example, keep away from direct sunlight, open fireplace and electric heaters.
- Do NOT place non-rechargeable batteries in charging device.
- Using headsets (earphones) for a long time or listening loudly can cause damage to your hearing.
- Spray water onto a soft cloth 2 to 4 times, and use it to clean the front frame; wipe in one direction only. Too much moisture may cause staining.



 Do not use products using high voltage around the Monitor. (ex. Electrical Swatter)

► Monitor may have malfunction as its electrical shock.

Mounting on a wall

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 Do NOT install this product by yourself as you may injure yourself or cause damage to product. Please contact Service personnel authorised by Manufacturer. ENGLISH

Licenses

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



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 a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

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 TV can be placed in standby mode in order to reduce the power consumption. And the TV should be turned off if it will not be watched for some time, as this will reduce energy consumption.
- The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost.
- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width. Use an extension cable that supports USB 2.0 if the USB cable or USB memory stick does not fit into your TV's USB port.



*A≦ 10 mm *B≦ 18 mm

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

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- Do not use any unapproved items to ensure the safety and product life span.
- Any damage or injuries caused by using unapproved items are not covered by the warranty.

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Lifting and moving the TV

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

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

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



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- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.
- Do not apply excessive pressure to cause flexing/bending of frame chassis as it may damage screen.

A CAUTION

- Avoid touching the screen at all times, as this may result in damage to the screen.
- When handling the TV, be careful not to damage the protruding joystick button. (Depending on model)



Setting up the TV

- 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.
- Do not carry the TV upside-down by holding the stand body (or stand base) as this may cause it to fall off, resulting in damage or injury.
- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)

NOTE NOTE

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- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse. (Only TK420S/TL520S)
- Lift up the latch at the bottom of the stand base and detach the stand base from the TV. (Only TL510S)

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Using the button

You can simply operate the TV functions, using the button. (Depending on model)

• Image shown may differ from your TV.

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<TL520S/TL510S>



<TL520S/TL510S>



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Power On (Press) Power Off¹ (Press and hold) Menu Control (Press²) Menu Selection (Press and Hold³)

- 1 All running apps will close.
- 2 You can access and adjust the menu by pressing the button when TV is on.
- 3 You can use the function when you access menu control.

Adjusting the menu

When the TV is turned on, press the button one time. You can adjust the menu items using the buttons. (Depending on model)

Ċ	Turns the power off.					
Ø	Accesses the setting menu.					
X	lears on-screen displays and returns to TV viewing.					
e	Changes the input source.					
\Diamond	Scrolls through the saved programmes.					
<u>+</u>	Adjusts the volume level.					

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Basic functions

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1 If the menu button is on the screen, pressing and holding the button will let you exit the menu.

NOTE NOTE

• If you press the joystick button first, you may not be able to adjust the volume level and saved programmes.

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• With your finger on the joystick button, when moving it up, down, left or right be careful not to press the button in.



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 (minimum) space from the wall for proper ventilation.



2 Connect the AC-DC Adapter and power cord to a wall outlet.

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- Do not place the TV near or on sources of heat, as this may result in fire or other damage.
- Please be sure to connect the TV to the AC/DC power adapter before connecting the TV's power plug to a wall power outlet.

Using the kensington security system

(This is not available for all models.)

• Image shown may differ from your TV.

The Kensington security system connector is located at the rear of the TV. For more information of installation and using, refer to the manual provided with the Kensington security system or visit *http://www.kensington.com.* Connect the Kensington security system cable between the TV and a table.



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• The Kensington security system is optional. You can obtain additional accessories from most electronics stores.

Mounting on a wall

For proper ventilation, allow a clearance of 100 mm on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.

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If you intend to mount the TV to a wall, attach Wall mounting interface (optional parts) to the back of the TV.

When you install the TV using the wall mounting interface (optional parts), attach it carefully so it will not drop.

- 1 If you use screw longer than standard, the TV might be damaged internally.
- 2 If you use improper screw, the product might be damaged and drop from mounted position. In this case, LG Electronics is not responsible for it.

Separate purchase (Wall mounting bracket)

Model	24TL520S 24TL510S	28TK420S 28TL520S 28TL510S	
Wall mount (A x B) (mm)			
B↓	75 x 75	100 x 100	
Standard screw	M4 x L10		
Number of screws	4		
Wall mount bracket (optional)	RW120		

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- Must use the enclosed screw in the box. (Depending on model)
- Disconnect the power first, and then move or install 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.
- Screw length from outer surface of back cover should be under 8 mm.



NOTE NOTE

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- 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 on the wall mount. Be sure to use the proper length.
- For more information, refer to the instructions supplied with the wall mount.

Connections (notifications)

Connect various external devices to the TV and switch input modes to select an external device. For more information about an external device's connection, refer to the manual supplied with each device. Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

NOTE

- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- If you record a TV programme on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information of recording, refer to the manual provided with the connected device.
- Refer to the external equipment's manual for operating instructions.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the [Picture] menu until the picture is clear.
- In PC mode, some resolution settings may not work properly depending on the graphics card.

Antenna connection

Connect the TV to a wall antenna socket with an RF cable (75 Ω) (Not Provided).

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.
- An antenna cable and converter are not supplied.
- Supported DTV Audio : MPEG, Dolby Digital, Dolby Digital Plus, HE-AAC

Satellite dish connection

(Only satellite models)

Connect the TV to a satellite dish to a satellite socket with a satellite RF cable (75 Ω).

CI module connection

(Depending on model)

View the encrypted (pay) services in digital TV mode.

- Check if the CI module is inserted into the PCMCIA card slot in the right direction. If the module is not inserted properly, this can cause damage to the TV and the PCMCIA card slot.
- If the TV does not display any video and audio when CI+ CAM is connected, please contact to the Terrestrial/Cable/Satellite Service Operator.

PC connection

When connecting your PC to the HDMI input, set the HDMI input's [Input Label] to [PC]

(INPUT) (Remote control) \Rightarrow [All Inputs] \Rightarrow [EDIT ICON] \Rightarrow [PC]

Other connections

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

• Supported HDMI Audio format:

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Dolby Digital / Dolby Digital Plus (32 kHz, 44.1 kHz, 48 kHz), DTS (44.1 kHz, 48 kHz), PCM (32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 192 kHz) (Depending on model)

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

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

• The remote control will not be included for all sales market. Make sure to point the remote control toward the remote control sensor on the TV.



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

1 To use the button, press and hold for more than 3 seconds.

(Power) Turns the TV on or off.

TV/RAD Selects Radio, TV and DTV programme.

(INPUT) Changes the input source.

(Q.Settings) Accesses the Quick Settings.

LIVE ZOOM By zooming in on the selected area, you can view it in full screen.

SUBTITLE Recalls your preferred subtitle in digital mode.

Number buttons Enters numbers.

Alphabet buttons Enters letters.

LIST Accesses the saved programme list.

(Space) Opens an empty space on the screen keyboard. **GUIDE** Shows programme guide.

QUICK ACCESS¹ You can access apps or Live TV using the number buttons corresponding to the features.

 $+ \bigtriangleup -$ Adjusts the volume level.

OINFO Views the information of the current programme and screen.

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❑ (SEARCH) Search for content such as TV programmes, movies and other videos, or perform a web search by entering text in the search bar.

(MUTE) Mutes all sounds.

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(MUTE)¹ Accesses the [Accessibility] menu.

 $\land \mathbf{P} \lor$ Scrolls through the saved programmes.

∧ **PAGE** ∨ Moves to the previous or next screen.

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Streaming Service buttons Connects to the Video Streaming Service.

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(HOME) Shows the Home menu.

(HOME)¹ Shows the previous history.

BACK Returns to the previous level.

EXIT Clears on-screen displays and returns to TV viewing. **Navigation buttons (up/down/left/right)** Scrolls through menus or options.

OK Selects menus or options and confirms your input.
 Teletext buttons (ETEXT / T.OPT) These buttons are used for teletext.

MAGIC LINK¹ Provides content related to the program you are

currently watching.

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AD Audio descriptions function will be enabled.

• **REC/*** Starts to record and displays record menu. This TV does not support recording function.

LIVE TV Returns to LIVE TV.

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Maintenance

Cleaning your TV

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

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

Screen, frame, cabinet and stand

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

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

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not push, rub, or hit the screen surface with your fingernail or a sharp object, as this may result in scratches and image distortions.
- Do not use any chemicals as this may damage the product.
- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.

Power cord

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

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) to prevent image burn.

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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 (-).

No image display and no sound is produced.

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

The TV turns off suddenly.

- Check the power control settings. The power supply may be interrupted.
- Check if the auto-off function is activated on the settings related time.
- If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

When connecting to the PC (HDMI), no signal is detected.

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

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Specifications

	Dimensions (W	x H x D) (mm)	Weig	jht (kg)	g) Power Power	
Models	With stand	Without stand	With stand	Without stand	consumption	requirement
28TK420S	641.5 x 428.7 x 159.2	641.5 x 396.3 x 59.5	4.6	4.5	28 W	19 V 2.0 A
24TL520S	205 563.1 x 367 x 150.1 563.1 x 340.9 x 58		3.3	3.25	25 W	19 V 2.0 A
28TL520S	649.4 x 420 x 150.1	649.4 x 393.8 x 61.4	4.55	4.5	28 W	19 V 2.0 A
24TL510S	563.1 x 393.8 x 148.6	563.1 x 340.9 x 58	3.6	3.25	25 W	19 V 2.0 A
28TL510S	649.4 x 447.8 x 187.5	649.4 x 393.8 x 61.4	4.95	4.5	28 W	19 V 2.0 A

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

Wireless module specification

- As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.
- For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm between the device and the body.

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Wireless LAN module(LGSWFAC71) Specification					
Wireless LAN (IEEE 802.11a/b/g/n/ac)					
Frequency Range Output Power(Max.)					
2400 to 2483.5 MHz	13 dBm				
5150 to 5725 MHz	16.5 dBm				
5725 to 5850 MHz (Not for EU)	10 dBm				

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* "IEEE 802.11ac" is not available in all countries.

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	Manufacturer: Lien Chang
	Model: LCAP21C
AC/DC Adapter	Manufacturer: Honor
AC/DC Adapter	Model: ADS-45SN-19-3 19040G
	In: AC 100 – 240 V ~ 50/60 Hz
	Out: DC 19 V = = = 2.1 A

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module			

100.0 mm x 55.0 mm x 5.0 mm

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

(Depending on country)

		Digital TV		Analogue TV Terrestrial / Cable	
	Satellite	Terrestrial	Cable		
Television system	DVB-S/S2*	DVB-T DVB-T2*	DVB-C	PAL/SECAM B/G, D/K, I,SECAM L	
Programme coverage	erage 950 ~ 2,150 Mhz UHF III S Band II S Band II		46 ~ 890 Mhz	46 ~ 862 Mhz	
Maximum number of storable programmes	6,000		2,000		
External antenna impedance					

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* Only DVB-T2/C/S2 support models.

Regulatory

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-backrecycling.jsp

WEEE



Disposal of your old appliance

- This crossed-out wheeled bin symbol indicates that waste electrical and electronic products (WEEE) should be disposed of separately from the municipal waste stream.
- 2 Old electrical products can contain hazardous substances so correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health. Your old appliance may contain reusable parts that could be used to repair other products, and other valuable materials that can be recycled to conserve limited resources.
- 3 You can take your appliance either to the shop where you purchased the product, or contact your local government waste office for details of your nearest authorised WEEE collection point. For the most up to date information for your country please see www.lg.com/global/recycling

Battery

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Disposal of waste batteries/accumulators

- This symbol may be combined with chemical symbols for mercury(Hg), cadmium(Cd) or lead(Pb) if the battery Contains more that 0.0005% of mercury, 0.002% of cadmium or 0.004% of lead.
- 2 All batteries/accumulators should be disposed separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- 3 The correct disposal of Your old batteries/accumulators will help to prevent potential negative consequences for the environment, animal and human health.
- 4 For more detailed information about disposal of Your old batteries/accumulators, please contact Your city office, waste disposal service or the shop where You purchased the product. (http://www.lg.com/global/sustainability/environment/takeback-recycling/global-network-europe)

DECLARATION OF CONFORMITY

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[For Equipment Under Radio Equipment Directive]

Hereby, LG Electronics declares that the radio equipment type [Monitor Television] is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

http://www.lq.com/qlobal/support/cedoc/cedoc#

LG Electronics European Shared Service Center B.V. Krijgsman 1 1186 DM Amstelveen The Netherlands

The use of the 5150 – 5350 MHz band is restricted to indoor use only. This restriction exists in the countries Belgium (BE), Bulgaria (BG), Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE), United Kingdom (UK), Switzerland (CH), Iceland (IS), Liechtenstein (LI) and Norway(NO). (For Wi-Fi/Bluetooth built-in model or Wi-Fi built-in model)

WARNING!

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

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

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

Symbols

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

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 gualified 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 gualified service personnel.

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The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

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Model

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Serial No.

SMART TV Quick Setup Guide

- * Image shown may differ from your TV.
- * Image shown on a PC or mobile phone may vary depending on the OS(Operating System).
- * App icon positions may vary on the platform, depending on the software version.

Network Settings

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Press the
 (Home) button on the remote to access the Home menu. Point the
 (Settings) icon and select by pressing the
 Wheel (OK) button on the remote.



2 Point the () (All Settings) icon and select by pressing the () Wheel (OK) button on the remote.



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3 Select the Network → Wired Connection (Ethernet) or Wi-Fi Connection.



4 The device automatically tries to connect to the network available (wired network first). When you select the **Wi-Fi Connection**, the network list available is displayed. Choose the network you wish to use.



For wireless AP (Router) that have the symbol, you need to enter the security key.

5 If the connection is successful, the "**Connected** to Internet" is displayed.



You can check the status of connection in **Advanced Wi-Fi settings**.



www.lg.com

Troubleshooting Network Problems

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 Press the final (Home) button on the remote to access the Home menu. Point the (2) (Settings) icon and select by pressing the (1) Wheel (OK) button on the remote.



2 Point the () (All Settings) icon and select by pressing the () Wheel (OK) button on the remote.

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All Settings 💮	—(: :

3 Select the Network → Wired Connection (Ethernet) or Wi-Fi Connection → Advanced Wi-Fi settings.

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Follow the instructions below that correlate to your network status.

Check the TV or the AP (Router).



When X appears next to TV:

- Check the connection status of the TV, AP (Router).
- Power off and power on the TV, AP (Router).
- 8 If you are using a static IP, enter the IP directly.
- Contact internet service provider or AP (Router) company.

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Check the AP (Router) or consult your Internet service provider.



When X appears next to Gateway:

- Unplug the power cord of the AP (Router) and try to connect after 5 seconds.
- Initialize (Reset) the AP (Router).
- Ontact internet service provider or AP (Router) company.



When X appears next to DNS:

- Unplug the power cord of the AP (Router) and try to connect after 5 seconds.
- Initialize (Reset) the AP (Router).
- Check that the MAC address of the TV/AP (Router) is registered with your Internet service provider. (The MAC address displayed on the right pane of the network status window should be registered with your Internet service provider.)
- Ocheck the AP (Router) manufacturer's website to make sure your router has the latest firmware version installed.

SmartShare PC SW Installing & Setting

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- 1 Install the SmartShare PC SW programme on your PC.
- 2 Go to *www.lg.com*. Then, select your region.
- 3 Select SUPPORT. Then, select Drivers & Software, SOFTWARE UPDATE or Software & Firmware.
- 4 Search for your model. Then, select SmartShare PC SW.
- 5 You can run the programme when installation is complete.

• SmartShare service is only available if TV and other devices are connected via a single AP (Router).

SmartShare Connection to Smartphone

1 Check that Wi-Fi is enabled on your smartphone. To use **SmartShare**, both devices must on the same local network.



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2 Install/run the app for sharing content on your smartphone (It's called **LG TV Plus** on LG phones).

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- 3 Enable your smartphone to share content files with other devices.
- 4 Open **Device Connector** application. $\widehat{\text{(Home)}} \rightarrow \text{Device Connector} \rightarrow \text{Smartphone} \rightarrow \text{CONTENT SHARE.}$
- 5 Select the file type you want to play (movie, audio or photo).
- 6 Select a movie, music or photo file to play on the TV.
- 7 Play the media file to view and enjoy it on your TV.

Updating the TV Firmware

- * If the TV is turned on for the first time after it was shipped from the factory, initialization of the TV may take a few minutes.
- 1 $(Home) \rightarrow \bigcirc$ (Settings) → (I) (All Settings) → \hbar General → About This TV → CHECK FOR UPDATES
- 2 After checking the version of the software, update it. If you check the "**Allow Automatic Updates**", you can update the software automatically.



Wi-Fi Direct Setting

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(Home) → O (Settings) → O (All Settings) → O Network → Wi-Fi Direct If a local network is not available, you can connect a portable device directly to the TV using Wi-Fi Direct.

With **SmartShare**, you can share files or screens of devices connected to **Wi-Fi Direct**.

- 1 When you open Wi-Fi Direct menu, a list of available devices appears.
- 2 When you are prompted to request connection, select **Yes. Wi-Fi Direct** is now connected to your TV.

Miracast Setting

Miracast allows a portable device to securely send video and sound to the TV wirelessly.



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(Home)/ (Input) ightarrow $\grave{}$ Screen Share

- 1 Miracast should be set to "ON" on your portable device.
- 2 When your TV is detected, select the device on your portable device. When connection is completed, the device screen appears on the TV screen.

If you turn Listen Mode to **ON** after launching the Screen Share app, you can connect the device without starting the Screen Share app.

WiDi (Wireless Display) Setting

Intel's WiDi (Wireless Display) technology enables easy and fast connection without wires or internet network for mirrored and dual monitor display on your TV. You can sit back and experience your favorite movies, videos, photos, online shows and more in full HD on your TV with great image clarity and sound.

(Home)/ 🗨 (Input) → 🛍 Screen Share

- 1 Intel's WiDi is set to **On**. Your laptop runs the Intel WiDi programme.
- 2 It detects LG webOS TVs available, which supports WiDi. In the list, select the TV you want and click Connect. Enter the number shown on the screen into the input field ((a)) on your laptop and then click Continue.

•		Detected Wireless Displays			(intel)	e	Enter PIN	(intel)
	_	1234 LG webOSaaaaaaa [TV][LG]HETCAST45 70 im14	Satur Avalativ Avalativ Avalativ Avalativ Avalativ	Model VID-SEEA VID-3EE DVB VID-08-6 VID-5606		⊳	To facility transmission provides that the 1914 cold then your Williams Display.	
(?)					0			6 0
							Notebook Screen	

3 The laptop screen appears on the TV screen. The wireless environment may affect the screen display. If the connection is poor, the Intel WiDi connection may be lost.

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* LG TVs do not need to register.

Please call LG Customer Service if you experience any problems.