

Owner's Manual

## LG Cloud Device All-in-One Thin Client

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

27CN650N	27CN650W	34CN650N	34CN650W	24CN650W
27CN651N	27CN651W	34CN651N	34CN651W	24CN650N

www.lg.com

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### **IMPORTANT PRECAUTIONS**

This unit has been engineered and manufactured to ensure your personal safety, however improper use may result in potential electrical shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this display, observe the following basic rules for its installation, use, and servicing.

- Please use the product in the proper environment to extend the product lifespan. Use the product in a safe and stable place.
- The warranty does not cover any damage resulting from reckless use or use in undesirable environments.
- LG Electronics Inc. does not provide warranty for data loss. In order to minimise damage from data loss, please make backup copies of important data.
- Manufacturers and installers cannot provide services related to human safety as this wireless device may
   cause radio interference.

### **On Safety**

- Use only the power cord supplied with the unit. In case you use another power cord, make sure that it is
  certified by the applicable national standards if not being provided by the supplier. If the power cable is
  faulty in any way, please contact the manufacturer or the nearest authorised repair service provider for a
  replacement.
  - The Power Cord is used as the disconnect device.
  - Please make sure the device is installed near the wall outlet to which it is connected and that the outlet is
    easily accessible.
  - Operate the display only from a power source indicated in the specifications of this manual or listed on the display. If you are not sure what type of power supply you have in your home, consult with your dealer.
  - Overloaded AC outlets and extension cords are dangerous. So are frayed power cords and broken plugs. They
    may result in a shock or fire hazard. Call your service technician for replacement.
  - 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 Open the Display:

- There are no user serviceable components inside.
- There are Dangerous High Voltages inside, even when the power is OFF.
- Contact your dealer if the display is not operating properly.
- Do not attempt to disassemble, repair or modify the product yourself.
  - If dropped, the product may be damaged or cause an injury.

### **To Avoid Personal Injury:**

- Do not place the display on a sloping shelf unless properly secured.
- 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.
- If the LCD screen is damaged, do not touch LCD with your hands.
  - Contact the service centre as it may cause an injury.
- Dispose of the desiccating agent and plastic wrap properly.
  - The desiccating agent and plastic wrap may cause suffocation.
- · When you upgrade the product, ensure that children will not swallow any parts including bolts.
- If a child swallows a nut, he or she may suffocate.
- In that case, seek emergency help immediately.

### To Prevent Fire or Hazards:

- Always turn the display OFF if you leave the room for more than a short period of time. Never leave the display ON when leaving the house.
- Keep children from dropping or pushing objects into the display's cabinet openings. Some internal parts carry hazardous voltages.
- Do not add accessories that have not been designed for this display.
- When the display is to be left unattended for an extended period of time, unplug it from the wall outlet.
- 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 place any objects within 38 cm (15 inches) of the product.
- Lack of ventilation may overheat the product from inside and put users at risk of burn injuries.
- Do not connect a key-phone line to a wired LAN port.
- A fire may occur or the product may get damaged.
- · Keep the product away from heat-emitting devices such as a heater.
- The product may get deformed or catch on fire.
- Do not put in metal items such as coins, hair pin or other irons or inflammables such as paper or matches.
   Especially, ensure that children will not do so.
- There is a risk of product damage, fire, or electric shock.
- If any foreign substance gets in the product, unplug the product and contact the local service centre.

### **On Installation**

- Do not allow anything to rest upon or roll over the power cord, and do not place the display where the power cord is subject to damage.
- Do not use this display near water such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
- Displays are provided with ventilation openings in the cabinet to allow the release of heat generated during
  operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard.
  Therefore, NEVER:
- Block the bottom ventilation slots by placing the display on a bed, sofa, rug, etc.
- Place the display in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the display near or over a radiator or heat source.
- Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mar, or damage the Active
  Matrix LCD permanently.
- Do not press the LCD screen with your finger for a long time as this may cause some afterimages.
- Some dot defects may appear as Red, Green or Blue spots on the screen. However, this will have no impact or
   effect on the display performance.
- If possible, use the recommended resolution to obtain the best image quality for your LCD display. If used
  under any mode except the recommended resolution, some scaled or processed images may appear on the
  screen. However, this is characteristic of the fixed-resolution LCD panel.

- Displaying a still image for long time on the monitor may leave persistent image or stain on the monitor screen. To avoid this problem, use a screen saver and power off when this product is not used. Persistent image or stain caused by long time usage are not covered by the warranty on this product.
- Do not shock or scratch the front and sides of the screen with metallic objects.
  - Otherwise, it may cause damage to the screen.
- 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 authorised the service centre for repair.
- Avoid high temperatures and humidity.
- 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.
- For displays with glossy bezels the user should consider the placement of the display as the bezel may cause
  disturbing reflections from surrounding light and bright surfaces.
- Do not use products using high voltage around the Monitor, (ex. Electrical Swatter).
  - Monitor may have malfunction as its electrical shock.
- Use the product in a clean, dust-free environment.
  - Otherwise, the system may not function properly.
- Do not use the product in damp places like a laundry room or bathroom.
- Moisture may cause a glitch or electric shock.

### Precautions to the AC Adapter and Power

- 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 centre.
  - 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.
- Be sure to keep the outlet, AC adapter, and pins of the power plug clean from dust and etc.
  - This may cause a fire.
- When lightning flashes in your area, disconnect the power, wired LAN and other connections.
- An electric shock or fire may occur.
- If you detect or smell smoke from the product, stop use immediately and disconnect the power source before
  contacting your local service centre.
- A fire may occur.
- As the AC adapter can be hot, do not touch it with bare skin while using it.
  - An extended period of exposure may cause a burn.

### **Precautions in Using**

- Do not store or use the product near a magnetic object (i.e. a bag with a magnetic object, a diary, a wallet, a memo board, high-powered speakers, a bracelet, or etc.).
- Otherwise, the storage device (SSD) and the system may be damaged, and the system may fail to operate properly.
- · Operate the product where there is no electromagnetic interference.
  - Keep a proper distance between the product and electronic appliances such as radios or speakers that generate strong magnetic fields.
  - Otherwise, data may be lost from the storage device (SSD) or the LCD color may be damaged.
- Do not impose excessive force on the LCD screen or drop it.
- You may break the LCD glass panel.
- · When handling product parts, follow the instructions in the manual.
- Otherwise, the product may get damaged.
- Install an anti-virus program on your product and do not download illegal programs nor access any corruptive web sites such as those with pornographic content.
- The system may be infected and impaired.

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- Do not insert devices other than designated ones in the ports.
  - Otherwise, the product may get damaged.
- Please use parts certified by LG Electronics, Inc.
  - Otherwise, a fire or product damage may occur.
- Handle devices and parts of the product with care.
  - The product may get damaged.
- Do not drop any part or device of the product while disassembling it.
  - If dropped, it may be damaged and cause an injury.
- Do not play PC games excessively.
  - Playing a PC game for an extended period of time may cause a mental disorder. It may also inflict physical impairments on the elderly and children.
- Do not put your finger or an object into product ports.
  - An injury or electric shock may occur.
- Ask one of our engineers to run a safety check after your computer has been repaired.
  - Otherwise, an electric shock or fire may occur.
- For minors, we recommend a program that blocks access to illegal or pornographic web sites.
- Minors' exposure to adult-only contents may inflict psychological instability or even trauma. Take extra
  precaution for your children if the whole family is using this product.

- When upgrading your product, turn off the power and disconnect the power cable, battery, and LAN.
  - There is a risk of electric shock or fire and the product may be damaged.
- Do not disassemble or modify the product arbitrarily.
  - There is a risk of electric shock and the product may be no longer covered by the warranty.
- Handle the product with care to prevent loss of data from the storage device (SSD).
  - Since the storage device is fragile, you need to back up your important data frequently.
  - The manufacturer is not responsible for any storage device data loss caused by a user's mistake.
- Damage to the storage device (SSD) and data loss may occur when:
  - External shocks are inflicted on the product while disassembling or installing it.
- The product is reset (i.e. restarted) or turned on again after a power outage while the storage device is operating.
- The PC is infected with a virus, tainting the data irrecoverably.
- Abrupt turning-off of the PC can damage the PC.
- If the product is moved, shaken or exposed to external shock while the storage device is running, file damage or bad sectors may occur.
- To minimise data loss resulting from storage device damage (SSD), frequently back up important data.
  - The manufacturer is not responsible for any data loss.

### **On Cleaning**

- Clean the product with a proper agent and dry it completely before using it again.
- If the product is wet while used, an electric shock or fire may occur.
- Unplug the display before cleaning the face of the display screen.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the display screen because overspraying may cause electrical shock.
- 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.)
- 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.



### **On Repacking**

- Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

# OPEN SOURCE SOFTWARE NOTICE INFORMATION

#### 27CN650W, 27CN651W, 34CN650W, 34CN651W, 24CN650W

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.

### **BEFORE READING THE OWNER'S MANUAL**

For models equipped with SSD (solid state disk), stored data may be lost in the event of a malfunction due to the nature of SSD. You must back up important user data in external storage devices (USB HDD, memory, etc.). By the nature of this product, a malfunction in the mainboard may lead to the loss of stored data. Accordingly, you must back up important user data in external storage devices (USB HDD, memory, etc.).

If you shut down the product before system loading is complete, it may not shut down properly. Shut down the product once system loading is complete. (System loading takes about 1 to 2 minutes to complete, but it may vary depending on the user environment.)

### **ASSEMBLING AND PREPARING**

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- Always use genuine LG components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of unauthorised components.
- It is recommended that use the supplied components.
- If you use generic cables not certified by LG, the screen may not display or there may be image noises.
- Illustrations in this document represent typical procedures, so they may look different from the actual product.
- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)
- Applying excessive force when tightening screws may cause damage to the monitor. Damage caused in this
  way will not be covered by the product warranty.
- Do not carry the monitor upside down by just holding the base. This may cause the monitor to fall off the stand and could result in personal injury.
- When lifting or moving the monitor, do not touch the monitor screen. The force applied to the monitor screen may cause damage to it.

### **NOTE**

- The components may look different from those illustrated here.
- Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.
- To purchase optional accessories, visit an electronics store or an online shopping site, or contact the retailer from which you purchased the product.
- The power cord provided may differ depending upon the region.
- Some games (online, 3D, 2D) may not be supported, and some high-resolution videos (including Full HD and some HD videos) may stutter during playback.

### **Supported Software**

You can download and install the latest version from the LGE website (www.lg.com).

- OnScreen Control

### **Product and Button Description**



### Front Adjust Button Functions Information





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Power Indicator

### Power Indicator

Mode	LED Color	
PC On	White	
PC Sleep	Blinking	
PC Off	Off	

### Webcam activity status indicator

Mode	LED Color
Webcam enabled	Green
Webcam disabled	Off

Button	Description			
📲 (Menu)	If the menu is inactive	Activates the main menu.		
	If the menu is active	Exits the OSD menu when the button is pressed.		
<	If the menu is inactive	Adjusts the volume level of the monitor.		
	If the menu is active	Left directional key.		
>	If the menu is inactive	Adjusts the volume level of the monitor.		
	If the menu is active	Right directional key.		
●/INPUT	If the menu is inactive	Change the input signals.		
		* When the input signal is changed to PC, the PC is turned on. (Depending on the PC setting)		
	If the menu is active	Selects and confirms menus or options.		
V	Down directional key.	Down directional key.		
^	Up directional key.			
ப் (Power button)	HDMI input	Turn the monitor power on/off.		
	PC input	Turn the PC power on/off.		

### Connectors



### 

• Take caution when handling the product as the SFP port's protrusions are sharp and may injure your hand.

### Moving and Lifting the Monitor

When moving or lifting the monitor, follow these instructions to prevent the monitor from being scratched or damaged and to ensure safe transportation, regardless of its shape or size.

- Place the monitor in the original box or packing material before attempting to move it.
- Before moving or lifting the monitor, disconnect the power cord and all other cables.
- Hold the bottom and side of the monitor frame firmly. Do not hold the panel itself.
- When holding the monitor, the screen should face away from you to prevent it from being scratched.
- When transporting the monitor, do not expose the monitor to shock or excessive vibration.
- When moving the monitor, keep it upright and never turn the monitor on its side or tilt it sideways.



### AUTION

- Avoid touching the monitor screen as much as possible.
  - This may result in damage to the screen or some of the pixels used to create images.
- If you use the monitor panel without the stand base, its button may cause the monitor to become unstable and fall, resulting in damage to the monitor or human injury. In addition, this may cause the button to malfunction.

### Installing on a Table

- Lift the monitor and place it on the table in an upright position. Place the monitor at least 100 mm away from the wall to ensure sufficient ventilation.



A: 100 mm

### AUTION

- Unplug the power cord before moving or installing the monitor. There is risk of electric shock.
- Make sure to use the power cord that is provided in the product package and connect it to a grounded power outlet.
- If you need another power cord, please contact your local dealer or the nearest retail store.

### **Adjusting the Stand Height**

- 1 Place the monitor mounted on the stand base in an upright position.
- 2 Handle the monitor with both hands for safety.

Max. 110 mm



- 1 Place the monitor mounted on the stand base in an upright position.
- 2 Adjust the angle of the screen.

(34CN65\*) for a comfortable viewing experience.

**Adjusting the Angle** 

### **WARNING**

 To avoid injury to the fingers when adjusting the screen, do not hold the lower part of the monitor's frame as illustrated below.

The angle of the screen can be adjusted forward or backward from -5  $^{\circ}$  to 35  $^{\circ}$  (24/27CN65\*), -5  $^{\circ}$  to 15  $^{\circ}$ 

• Be careful not to touch or press the screen area when adjusting the angle of the monitor.



### WARNING

• When adjusting the screen height, do not place your hand on the stand body to avoid injury to your fingers.

### Swivel stand

### 24/27CN65\*

Swivel 355 degrees and adjust the angle of the monitor set to suit your view.



### Pivot Feature

### 24/27CN65\*

The pivot feature allows the monitor to rotate 90 degrees clockwise or counter-clockwise.



### WARNING

• To avoid scratching the stand base, do not use excessive force or speed when rotating the monitor using the pivot feature, and make sure that the stand does not make contact with the monitor.

### 1 Raise the monitor up to the maximum height.



2 Adjust the angle of the monitor in the direction of the arrow as shown in the figure.





4 Complete the installation by rotating the monitor 90  $^\circ$  as shown in the figure.





### NOTE

- Auto Pivot feature of the display is not supported.
- The screen can be rotated easily using the screen pivot shortcut key provided with your Windows operating system. Note that some Windows versions and some graphics card drivers may use different settings for the screen pivot key or may not support the pivot key at all.
- Windows operating system screen pivot shortcut key.
  - 0 °: Ctrl + Alt + keyboard up key (↑)
  - 90 °: Ctrl + Alt + keyboard left key (←)
  - 180 °: Ctrl + Alt + keyboard down key (↓)
  - 270 °: Ctrl + Alt + keyboard right key (→)

### **WARNING**

- Take care when rotating the monitor if the cable is connected.
- To avoid injury to your fingers, do not put them between the screen and the stand base when turning the monitor's screen.

### **Using the Kensington Lock**

For more information on installation and usage, refer to the Kensington lock owner's manual or visit the website at http://www.kensington.com.

Connect the monitor to a table using the Kensington security system cable.



### NOTE

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



#### Installing on the Wall

Install the monitor at least 100 mm away from the wall and leave about 100 mm of space at each side of the monitor to ensure sufficient ventilation. Detailed installation instructions can be obtained from your local retail store. Alternatively, please refer to the manual for how to install and set up a tilting wall mounting bracket.



A: 100 mm

### Installing the Wall Mount Plate

This monitor meets the specifications for the wall mount plate or other compatible devices. To install the monitor to a wall, attach a wall mounting bracket (optional) to the back of the monitor. Make sure that the wall mounting bracket is securely fixed to the monitor and to the wall.

Wall Mount (mm)	100 x 100
Standard screw	M4 x L10
Number of screws	4
Wall Mount Plate (Optional)	LSW149

### NOTE

- A non-VESA standard screw may damage the product and cause the monitor to fall. LG Electronics is not liable for any accidents relating to the use of non-standard screws.
- The wall mount kit includes the installation guide and all necessary parts.
- The wall mounting bracket is optional. You can obtain optional accessories from your local dealer.
- The length of the screw may differ for each wall mounting bracket. If you use screws longer than the standard length, it may damage the inside of the product.
- · For more information, please refer to the user manual for the wall mounting bracket
- Be careful not to apply too much force while mounting the wall mount plate as it may cause damage to the screen.
- Remove the stand before installing the monitor on a wall mount by performing the stand attachment in
  reverse.

### AUTION

- Unplug the power cord before moving or installing the monitor to avoid electric shock.
- Installing the monitor on the ceiling or on a slanted wall may result in the monitor falling off, which could lead to injury. Use an authorised LG wall mount and contact the local dealer or qualified personnel.
- To prevent injury, this apparatus must be securely attached to the wall in accordance with the installation instructions.
- Applying excessive force when tightening screws may cause damage to the monitor. Damage caused in this
  way will not be covered by the product warranty.
- Use the wall mounting bracket and screws that conform to VESA standards. Damage caused by the use or misuse of inappropriate components will not be covered by the product warranty.
- When measured from the back of the monitor, the length of each installed screw must be 8 mm or less.

### **USING THE MONITOR**

• Illustrations in this manual may differ from the actual product. Press the ( )/INPUT) button and then select the input option.

### **AUTION**

- Do not press the screen for a prolonged time. This may cause image distortion.
- Do not display a still image on the screen for a prolonged time. This may cause image retention. Use a PC screensaver if possible.
- When connecting the power cord to the outlet, use a grounded (3-hole) power strip or a grounded power outlet.
- The monitor may flicker when turned on in an area where the temperature is low. This is normal.
- Sometimes red, green, or blue spots may appear on the screen. This is normal.



### Connecting to a PC

- This monitor supports the \*Plug and Play feature.
- \* Plug and Play: A feature that allows you to add a device to your computer without having to reconfigure anything or install any manual drivers.

#### **HDMI** Connection

Transmits digital video and audio signals from your PC to the monitor.

### AUTION

- Using a DVI to HDMI / DP (DisplayPort) to HDMI cable may cause compatibility issues.
- 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<sup>®</sup>/<sup>™</sup> cable
- High Speed HDMI<sup>®</sup>/<sup>™</sup> cable with Ethernet

### **Connecting monitor**

### **DisplayPort Connection**

Transmits the PC's digital video and audio signals to the monitor. Connect your monitor which is supported DP using the DisplayPort cable.

### NOTE

• There may be no video or audio output depending on the DP (DisplayPort) version of the PC.

### **USB-C** connection

Transmits digital video and audio signals from your PC to the monitor.

### NOTE

- DP Alternate Mode (DP over USB-C) are supported via USB-C Port.
- · Features may not work properly depending on the connected device's specifications and the environment.
- Connect Adapter to supply power to the Monitor.

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### **Connecting LAN**

### LAN connection

Connect the router or switch to the monitor.

### NOTE

- The LAN cable is sold separately.
- The following LAN cable type can be used: Standard: IEEE 802.3 ETHERNET
- Connect the LAN cable and the peripheral devices to use the cloud monitor.

### SFP connection

### NOTE

- Only supports 1 Gbps module. (155 Mbps, 10 Gbps (SFP+) are not supported)
- When you choose the SFP module, refer to the compatibility list by SFP vendor.
- Use the same SFP module to connect both devices.
- Devices are sold separately.

### **Connecting AV Devices**

### **HDMI** Connection

HDMI transmits digital video and audio signals from your AV device to the monitor.

### NOTE

- Connecting your PC to the monitor using the HDMI cable may cause device compatibility issues.
- Using a DVI to HDMI / USB-C to HDMI cable may cause compatibility issues.
- 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<sup>®</sup>/<sup>™</sup> cable
  - High Speed  $\text{HDMI}^{\circledast}/^{\text{\tiny TM}}$  cable with Ethernet

### **Connecting Peripherals**

### USB Cable connection - PC

The USB port on the product functions as a USB hub.

### 

- Cautions When Using a USB Device
- A USB device with an automatic recognition program installed, or that uses its own driver, may not be recognised.
- Some USB devices may not be supported or may not work properly.
- It is recommended to use a USB hub or hard disk drive with power supplied. (If the power supply is not adequate, the USB device may not be recognised properly.)

### NOTE

- It is recommended you install all Windows Updates to keep your Windows up-to-date before connecting to the product for use.
- Peripheral devices are sold separately.
- A keyboard, mouse, or USB device can be connected to the USB port.
- The charging speed may vary depending on the device.

### **Connecting Headphones**

Connect peripherals to the monitor via the headphones port.

### NOTE

- Peripheral devices are sold separately.
- Depending on the audio settings of the PC and external device, headphones and speaker functions may be limited.
- If you use angled earphones, it may cause a problem with connecting another external device to the monitor. Therefore, it is recommended to use straight earphones.





Angled

Straight (Recommend)

### **USER SETTINGS**

### 

• Your monitor's OSD (On Screen Display) may differ slightly from that shown in this manual.

### **Activating the Main Menu**

Monitor buttons			

### **Menu Settings**

- 1 To view the OSD menu, press the **##**button and then enter the Settings.
- 2 Use the  $</>/<math>\vee$ / $\wedge$  to adjust the options.
- 3 To return to the upper menu or set other menu items, press the < or (/INPUT it.
- 4 If you want to exit the OSD menu, press the button.

The applicable setting options are as shown below.





[Picture]





[Quick Settings]

[Input]

[Sound]

[General]

### [Quick Settings]

#### > [Quick Settings]

- [Brightness]: Adjusts the brightness of the screen.
- [Contrast]: Adjusts the contrast of the screen.
- [Volume]: Adjusts the volume level.
  - You can adjust [Mute]/[Unmute] by  $\lor$  key in the [Volume] menu.
- [Color Temp]: Set your own color temperature.
  - [Custom]: The user can customise the red, green and blue color.
  - [Warm]: Sets the screen color to a reddish tone.
  - [Medium]: Sets the screen color to between a red and blue tone.
  - [Cool]: Sets the screen color to a bluish tone.

### [Input]

### > [Input]

- [Input List]: Selects the input mode.
- [Aspect Ratio]: Adjusts the aspect ratio of the screen. The display may look the same for [Full Wide] and [Original] options at the recommended resolution.
  - [Full Wide]: Displays the video in widescreen, regardless of the video signal input.
  - [Original]: Displays video according to the aspect ratio of the video signal input.

### NOTE

- The ratio is disabled in the interlaced signal.
- The display may look the same for [Full Wide], [Original] options at the recommended resolution.

### [Picture]

### >[Picture] > [Picture Mode]

- [Custom]: Allows the user to adjust each element. The color mode of the main menu can be adjusted.
- [Reader]: Optimises the screen for reading documents.
- [Photo]: Optimises the screen to view photos.
- [Cinema]: Optimises the screen to improve the visual effects of a video.
- [Color Weakness]: This mode is for users who cannot distinguish between red and green. It enables users
  with color weakness to easily distinguish between the two colors. This is subsidiary for color weakness
  user. Therefore if you feel uncomfortable with the screen, please turn off this function. This function can't
  distinguish some colors in some images.
- [Game]: Optimises the screen for gameplay.

#### >[Picture] > [Picture Adjust]

- [Brightness]: Adjusts the brightness of the screen.
- [Contrast]: Adjusts the contrast of the screen.
- [Sharpness]: Adjusts the sharpness of the screen.
- [SUPER RESOLUTION+]: Because this is a function to increase the sharpness of low resolution pictures, it is not recommended to use the function for normal text or for desktop icons. Doing so may result in unnecessarily high sharpness.
- [High]: Optimises the screen for crystal clear images. Best for high-definition video or games.
- [Middle]: Optimises the screen for comfortable viewing, with images at the middle level between the low and high modes. Best for UCC or SD videos.
- [Low]: Optimises the screen for smooth and natural images. Best for still images or images with less movement.
- [Off]: Displays in the most common setting. Disables [SUPER RESOLUTION+].
- [Black Level]: Sets the offset level (for HDMI only).

Offset: as a reference for a video signal, this is the darkest color the monitor can display.

- [High]: Keeps the current contrast ratio of the screen.
- [Low]: Lowers the black levels and raises the white levels from the current contrast ratio of the screen.
- [DFC]: Adjusts the brightness automatically according to the screen.

#### > [Picture] > [Game Adjust]

- [Response Time]: Sets a response time for displayed pictures based on the speed of the screen. For a normal
  environment, it is recommended that you use [Fast]. For a fast-moving picture, it is recommended that you
  use [Faster]. Setting to [Faster] may cause image sticking.
- [Faster]: Sets the response time to [Faster].
- [Fast]: Sets the response time to [Fast].
- [Normal]: Sets the response time to [Normal].
- [Off]: Does not use the response time improvement feature.
- [Black Stabilizer]: You can control the black contrast to have better visibility in dark scenes. Increasing the
  [Black Stabilizer] value brightens the low gray level area on the screen. (You can easily distinguish objects on
  dark game screens.) Reducing the [Black Stabilizer] value darkens the low gray level area and increases the
  dynamic contrast on the screen.

#### >[Picture] > [Color Adjust]

- [Gamma]
  - [Mode 1], [Mode 2], [Mode 3]: The higher the gamma value, the darker the image becomes. Likewise, the lower the gamma value, the lighter the image becomes.
  - [Mode 4]: If you do not need to adjust the gamma settings, select [Mode 4].
- [Color Temp]: Set your own color temperature.
  - [Custom]: The user can customise the red, green and blue color.
  - [Warm]: Sets the screen color to a reddish tone.
  - [Medium]: Sets the screen color to between a red and blue tone.
  - [Cool]: Sets the screen color to a bluish tone.
- [Red], [Green], [Blue]: You can customise the picture color using [Red], [Green], and [Blue] colors.

#### >[Picture] > [Picture Reset]

- [Do you want to reset your settings?]
- [Yes]: Returns to the default settings.
- [No]: Cancel the reset.

### [Sound]

### > [Sound]

- [MaxxAudio]
- [On]: MaxxAudio<sup>®</sup> by Waves, recipient of a Technical GRAMMY Award<sup>®</sup> is a suite of studio-quality sound tools for a superior listening experience.
- [Off]: Disables the [MaxxAudio] function.
- [Volume]: Adjusts the volume level.
- You can adjust [Mute]/[Unmute] by  $\lor$  key in the [Volume] menu.

### [General]

### > [General]

- [Language]: Sets the menu screen to the desired language.
- [SMART ENERGY SAVING]: Conserve energy by using luminance compensation algorithm.
  - [High]: Saves energy using the high-efficiency [SMART ENERGY SAVING] feature.
  - [Low]: Saves energy using the low-efficiency [SMART ENERGY SAVING] feature.
  - [Off]: Disables the feature.
  - The value of energy saving data may differ depending on panel and panel suppliers.
  - If you select the option of [SMART ENERGY SAVING] is [High] or [Low], monitor luminance become higher or lower depend on source.
- [Automatic Standby]: If there is no operation on the monitor for a certain period of time, the monitor will
  automatically switch to standby mode.
- [OSD Lock]: This feature disables the configuration and adjustment of menus.
  - Deactivates all functions except [Brightness], [Contrast], [Volume], [Input List], [Information] and [OSD Lock] menu.
- [Information]: The following display information will be shown; [Model], [Total Power On Time], [Serial Number], [Resolution].

#### > [General] > [Reset]

- [Do you want to reset your settings?]
- [Yes]: Returns to the default settings.
- [No]: Cancel the reset.

### TROUBLESHOOTING

### Nothing is displayed on the screen.

- Is the monitor's power cord plugged in?
- Check if the power cord is correctly plugged into the power outlet.
- Is the power LED on?
- Check the power cable connection and press the power button.
- Is the power on and the power LED displaying white?
- Check that the connected input is enabled (" > [Input]).
- Is the [No Signal] message being displayed?
- This is displayed when the signal cable between the PC and the monitor is missing or disconnected. Check the cable and reconnect it.
- Is the [Out of Range] message being displayed?
  - This occurs when signals transferred from the PC (graphics card) are out of the horizontal or vertical frequency range of the monitor. Please see the Product Specification section of this manual to set the appropriate frequency.

#### Screen display is unstable and shaky. / Images displayed on the monitor leave shadow trails.

- Did you select the appropriate resolution?
- If the selected resolution is HDMI 1080i 60/50 Hz (interlaced), the screen may be flickering. Change the
  resolution to 1080p or the recommended resolution.
- Not setting the graphics card to the recommended (optimal) resolution may result in blurred text, a dimmed screen, a truncated display area or misalignment of the display.
- The setting methods may be different depending on the computer or operating system, and some
  resolutions may not be available depending on the performance of the graphics card. If this is the case,
  contact the manufacturer of the computer or graphics card for assistance.
- Does image sticking occur even when the monitor is turned off?
- Displaying a still image for a prolonged time may cause damage to the screen, resulting in the retention
  of the image.
- To extend the lifetime of the monitor, use a screensaver.
- Are there spots on the screen?
- When using the monitor, pixilated spots (red, green, blue, white, or black) may appear on the screen. This is normal for an LCD screen. It is not an error, nor is it related to the monitor's performance.

#### Some features are disabled.

- Are some functions not available when you press the Menu button?
  - The OSD is locked. Disable [OSD Lock] in [General].

#### Do you see an "Unrecognised monitor, Plug and Play (VESA DDC) monitor found" message?

- Have you installed the display driver?
  - Be sure to install the display driver from our web site: http://www.lg.com.
  - Make sure to check if the graphics card supports Plug and Play function.

#### No sound from the headphone port.

- · Are images displayed without sound?
  - Make sure that the headphone port connections are made properly.
  - Try increasing the volume with keys.
  - Set the audio output of the PC to the monitor you are using. (The settings may differ depending on the
    operating system (OS) you use.)

### **PRODUCT SPECIFICATION**

Specifications are subject to change without notice.

Color Depth: 8-bit color is supported. Resolution:

#### 24/27CN65\*

- Max Resolution: 1920 x 1080 @ 75 Hz
- Recommended Resolution: 1920 x 1080 @ 60 Hz

### 34CN65\*

- Max Resolution: 2560 x 1080 @ 75 Hz
- Recommended Resolution: 2560 x 1080 @ 60 Hz

### AC/DC Adapter:

- Model: ADS-110CL-19-3 190110G
- Manufacturer: Shenzhen Honor Electronic Co.,Ltd
  - Output: 19 V - 5.79 A

### **Environmental Conditions**:

- Operating Conditions
  - Temperature: 0  $^\circ\text{C}$  to 40  $^\circ\text{C}$
  - Humidity: Less than 80 %
- Storing Conditions
  - Temperature: -20  $^\circ\text{C}$  to 60  $^\circ\text{C}$
  - Humidity: Less than 85 %

### Dimensions (without packaging): Monitor Size (Width x Height x Depth)

### 24CN65\*

- With Stand
- 553.4 x 512.7 x 240 (mm)
- Without Stand
- 553.4 x 332.7 x 59.4 (mm)

### 27CN65\*

- With Stand
- 622.3 x 531.7 x 239.6 (mm)
- Without Stand
- 622.3 x 371.5 x 61.0 (mm)

### 34CN65\*

- With Stand
- 825.6 x 570.7 x 230 (mm)
- Without Stand
- 825.6 x 374.8 x 60.5 (mm)

#### Weight (without packaging):

#### 24CN65\*

- With Stand
- 6.2 kg
- Without Stand
- 4.1 kg

#### 27CN65\*

- With Stand
- 7.8 kg
- Without Stand
- 5.6 kg

#### 34CN65\*

- With Stand
- 8.3 kg
- Without Stand
- 6.6 kg

#### Power Sources:

#### 24CN65\*

- Power Rating: 19 V - 3.5 A
- Power Consumption:
- On Mode: 25 W (Typical) (Outgoing condition)\*
- Sleep Mode:  $\leq 1.3$  W
- Off Mode:  $\leq 1.2 \text{ W}$

#### 27CN65\*

- Power Rating: 19 V - 4.0 A
- Power Consumption:
- On Mode: 29 W (Typical) (Outgoing condition)\*
- Sleep Mode:  $\leq 1.3$  W
- Off Mode:  $\leq 1.2 \text{ W}$

#### 34CN65\*

- Power Rating: 19 V - 5.0 A
- Power Consumption:
- On Mode: 39 W (Typical) (Outgoing condition)\*
- Sleep Mode:  $\leq 1.3$  W
- Off Mode:  $\leq 1.2 \text{ W}$

\* The On Mode of Power Consumption is measured with LGE test standard. (Full White pattern, Maximum resolution)

\* The Power Consumption level can be different by operating condition and monitor setting.

### Wireless module (AC9560) Specifications

(Wi-Fi/Bluetooth supported models only.)

Wireless LAN (IEEE 802.11a/b/g/n/ac)				
Frequency Range Output Power (Max.)				
2400 to 2483.5 MHz 20.0 dBm				
5150 to 5350 MHz	22 dBm			
5470 to 5725 MHz	22 dBm			
5725 to 5850 MHz	13 dBm			
Bluetooth				
Frequency Range Output Power (Max.)				
2400 to 2483.5 MHz 14 dBm				
<ul> <li>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.</li> </ul>				

• 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.

### Factory Support Mode

### (Preset Mode, HDMI)

### 24/27CN65\*

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
640 x 480	31.469	59.94	-/-	
640 x 480	37.5	75	-/-	
720 X 400	31.468	70.08	-/+	
720 x 480	31.47	59.94	+/+	
800 x 600	37.879	60.317	+/+	
800 x 600	46.875	75.0	+/+	
1024 x 768	48.363	60.0	-/-	
1024 x 768	60.023	75.029	+/+	
1152 x 864	67.500	75.000	+/+	
1280 x 720	45	60	+/+	
1280 x 800	49.702	60	-/+	
1280 x 1024	63.981	60.023	+/+	
1280 x 1024	79.976	75.035	+/+	
1400 x 1050	65.317	59.978	-/+	
1440 x 900	55.935	59.887	-/+	
1600 x 900	60.000	60.000	+/+	
1680 x 1050	65.290	59.954	-/+	
1920 x 1080	67.50	60	+/+	
1920 x 1080	83.89	74.97	+/+	

#### 34CN65\*

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
640 x 480	31.469	59.94	-/-	
640 x 480	37.5	75	-/-	
720 x 480	31.47	59.94	+/+	
800 x 600	37.879	60.317	+/+	
800 x 600	46.875	75.0	+/+	
832 x 624	49.727	74.553	-/-	
1024 x 768	48.363	60.0	-/-	
1024 x 768	60.123	75.029	+/+	
1152 x 864	53.697	60	-/+	
1152 x 870	68.68	75.06	-/-	
1280 x 720	45	60	+/+	
1280 x 800	49.702	60	-/+	
1280 x 1024	63.981	60.02	+/+	
1280 x 1024	79.976	75.025	+/+	
1600 x 900	60.00	60.00	+/+	
1680 x 1050	65.29	59.954	-/+	
1920 x 1080	67.50	60	+/-	
1920 x 1080	84.643	74.906	-/+	
2560 x 1080	66.636	59.98	-/+	
2560 x 1080	83.915	74.99	-/+	

### HDMI Timing (Video)

Resolution Horizontal Frequency (kHz)		Vertical Frequency (Hz)	Remarks
480p	31.5	60	
576p	31.25	50	
720p	37.5	50	
720p	45	60	
1080p	56.25	50	
1080p	67.50	60	Recommend



WARNING: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

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.

Model

Serial No.

#### 27CN650W, 27CN651W, 34CN650W, 34CN651W, 24CN650W



ENERGY STAR® is a set of power-saving guidelines issued by the U.S.Environmental Protection Agency (EPA). As an ENERGY STAR®Partner LGE U. S. A., Inc. has determined that this product meets the ENERGY STAR®guidelines for energy efficiency.

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