



* Disclaimer: LG LED Monitor applies LCD screen with LED backlights.

This product is a computer monitor and not for television purpose.

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

24GN650

27GN650

27GN65S

32GN650

32GN63T

www.lg.com

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LICENSE

Each model has different licenses. Visit www.lg.com for more information on the license.



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

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 <code>opensource@lge.com</code>.

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.

ASSEMBLING AND PREPARING

CAUTION

- 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 unauthorized 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.
- For wave pattern on appearance, unlike the general method of coating, it's applied
 to added glittering material in raw material. With no peeled-off appearance, it has
 good durability. Please use it with confidence because there is no problem in using
 the product at all.



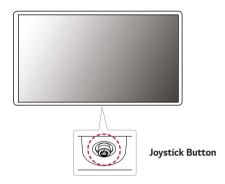
- · The components may look different from those illustrated here.
- Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.
- To purchase optional accessories, visit an electronics store or an online shopping site, or contact the retailer from which you purchased the product.
- The power cord provided may differ depending upon the region.

Supported Drivers and Software

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

Drivers and Software	Installation Priority
Monitor Driver	Recommended
OnScreen Control	Recommended

Product and Button Description



How to Use the Joystick Button

You can easily control the functions of the monitor by pressing the joystick button or moving it left/right with your finger.

Basic Functions

	७	Power on	Press the joystick button once with your finger to turn on the monitor.
		Power off	Press and hold the joystick button once with your finger to turn off the monitor.
		Volume control	You can control the volume by moving the joystick button left/right.
		Controls screen brightness	You can control the screen's brightness by moving the joystick button up/down.

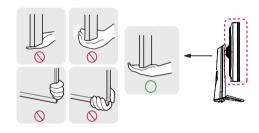
NOTE

• The joystick button is located at the bottom of the monitor.

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.

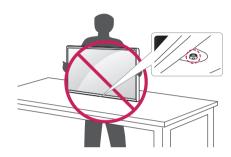


CAUTION

- \bullet 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.

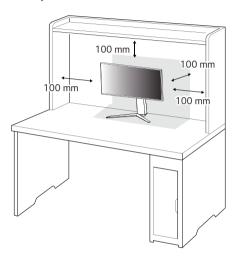


If you use the monitor panel without the stand base, its joystick button may cause
the monitor to become unstable and fall, resulting in damage to the monitor or
human injury. In addition, this may cause the joystick button to malfunction.



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.





- 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. 110.0 mm





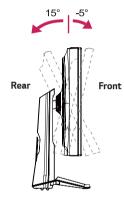


• When adjusting the screen height, do not place your hand on the stand body to avoid injury to your fingers.

Adjusting the Angle

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

The angle of the screen can be adjusted forward or backward from -5° to 15° for a comfortable viewing experience.





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





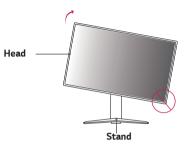


• Be careful not to touch or press the screen area when adjusting the angle of the monitor.



Pivot Feature

The pivot feature allows the monitor to rotate 90° clockwise.



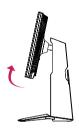


WARNING

- To avoid scratching the stand base, make sure that when rotating the monitor using the pivot feature, the stand does not make contact with the monitor.
- 1 Raise the monitor to the maximum height.



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



3 Rotate the monitor clockwise as shown in the figure.



4 Complete the installation by rotating the monitor 90° as shown below.



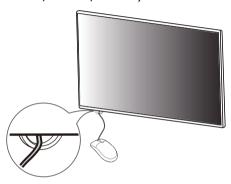


- · Auto Pivot feature of the display is not supported.
- The screen can be rotated easily using the screen pivot shortcut key provided with your Windows operating system. Note that some Windows versions and some graphics card drivers may use different settings for the screen pivot key or may not support the pivot key at all.

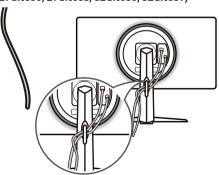
Tidying up Cables

Arrange the cables using the cable holder as shown in the illustration.

(27GN650, 27GN65S, 32GN650, 32GN63T)



(24GN650, 27GN650, 27GN65S, 32GN650, 32GN63T)

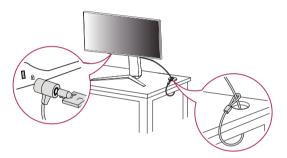


Using the Kensington Lock

The connector for the Kensington security system is located at the bottom of the monitor.

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 the Wall Mount Plate

This monitor meets the specifications for the wall mount plate or other compatible devices.

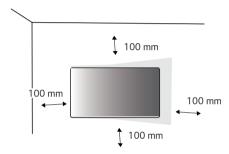
- 1 Place the screen face down. To protect the monitor panel (screen), cover the surface with a soft cloth or the monitor protection pad included in the product package.
- 2 Remove the four screws tightened on the back of the monitor.
- 3 Place the wall mount plate onto the monitor and align it with the screw holes.
- 4 Tighten the four screws using a screwdriver to fix the plate to the monitor.



- The wall mount plate is sold separately.
- For more information on installation, refer to the wall mount plate's installation quide.
- Be careful not to apply too much force while mounting the wall mount plate as it may cause damage to the screen.

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.



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.

- 1 If you use screws longer than the standard length, it may damage the inside of the product.
- 2 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 nonstandard screws.

Wall Mount (mm)	100 x 100
Standard screw	M4 x L10
Number of screws	4
Wall Mount Plate (Optional)	LSW 149



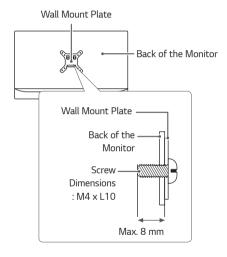
- Use the screws specified by VESA standards.
- The wall mount kit includes the installation guide and all necessary parts.
- The wall mounting bracket is optional. You can obtain optional accessories from your local dealer.
- The length of the screw may differ for each wall mounting bracket. Be sure to use the proper length.
- For more information, please refer to the user manual for the wall mounting bracket.



CAUTION

- 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 authorized LG wall mount and contact the local dealer or qualified personnel.
- 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 joystick button, go to Menu

Input, and then select the input option.



CAUTION

- 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 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.



- 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®/™ cable
 - High-Speed HDMI®/TM cable with Ethernet

DisplayPort Connection

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



- There may be no video or audio output depending on the DP (DisplayPort) version of the PC.
- If you are using a Mini DisplayPort output graphics card, use a Mini DP to DP (Mini DisplayPort to DisplayPort) cable or gender that supports DisplayPort 1.4. (sold separately)

Connecting Peripherals

Connecting Headphones

Connect peripherals to the monitor via the headphones port.



NOTE

- · Peripheral devices are sold separately.
- 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.



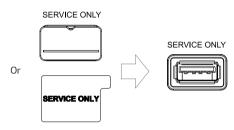
 Depending on the audio settings of the PC and external device, headphones and speaker functions may be limited.

Upgrading the Software via USB

(24GN650, 27GN650, 27GN65S)

SERVICE ONLY

Remove the cover or sheet when using USB port (



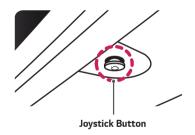
- When the monitor screen operates normally, insert the USB storage device SERVICE ONLY containing the upgrade software in the USB port ([]]).
- 3 When the software upgrade message appears, select OK to start the upgrade.
- 4 Your Monitor will turn itself off and on again automatically after completing software upgrade.

- The USB port can only be used for software upgrade.
- Use only those USB storage devices formatted with FAT, FAT32 or NTFS File System provided by Windows.
- USB storage devices with a built-in auto recognition program or their own driver may not work.
- Some USB storage devices may not work or may work improperly.
- Do not turn off the monitor or remove your storage device during the upgrade process.
- The upgrade file should be located in the LG_MNT folder under the root directory of USB storage device.
- You can download the upgrade file from the LGE website. (This is available on certain models only.)
- XX For detailed guide, please refer to the LGE website provided with the upgrade file.

USER SETTINGS

Activating the Main Menu

- 1 Press the joystick button on the bottom of the monitor.
- 2 Move the joystick up/down (▲/ ▼) and left/right (◄/►) to set the options.
- 3 Press the joystick button once more to exit the main menu.



Button		Menu Status	Description
	Main m	enu disabled	Enables the main menu.
	Main menu enabled		Exits the main menu. (Holding down the button to turn off the monitor. You can turn off the monitor this way at any time, including when the OSD is on.)
		Main menu disabled	Adjusts the monitor volume level.
		Main menu enabled	Enters the Input features.
		Main menu disabled	Adjusts the monitor volume level.
		Main menu enabled	Enters the Menu feature.
		Main menu disabled	Adjusts the monitor brightness level.
		Main menu enabled	Turns off the monitor.
	•	Main menu disabled	Adjusts the monitor brightness level.
		Main menu enabled	Enters the Game Mode feature.

Main Menu Features



Main Menu	Description		
Input	ts input mode.		
Power Off	urns off the monitor.		
Menu	Configures the screen settings.		
Game Mode	Sets the game mode for gaming.		
Exit	Exits the main menu.		

User Settings

Menu Settings

- 1 To view the OSD menu, press the joystick button at the bottom of the monitor and then enter the **Menu**.
- 2 Configure the options by moving the joystick up/down/left/right.
- 3 To return to the upper menu or set other menu items, move the joystick to ◀ or pressing (♠) it.
- 4 If you want to exit the OSD menu, move the joystick to ◀ until you exit.











Game Mode

Game Adjust

Picture Adjust

Input

General

Game Mode on SDR(Non-HDR)signal.

Menu > Game Mode		Description
	Gamer 1	In this mode, users can customize elements including game-related options.
Gamer 1 and Gamer 2 picture modes allow you to save two sets of customized display settings, incluoptions.		Gamer 1 and Gamer 2 picture modes allow you to save two sets of customized display settings, including game-related setup options.
	FPS	This mode is optimized for FPS games.
Game Mode RTS		This mode is optimized for RTS Game.
	Vivid	Optimized the screen for vivid colors.
Reader Optimizes the scree		Optimizes the screen for viewing documents. You can brighten the screen in the OSD menu.
	HDR Effect	Optimizes the screen for high dynamic range.

Game Mode on HDR signal.

Menu > Game Mode		Description
	Gamer 1	In this mode, users can customize elements including game-related options.
	Gamer 2	Gamer 1 and Gamer 2 picture modes allow you to save two sets of customized display settings, including game-related setup options.
	FPS	This mode is optimized for FPS games.It is suitable for very dark FPS games.
	RTS	This mode is optimized for RTS Game.
Game Mode	Vivid	Optimized the screen for vivid colors.
	When the HDR fur	not be operated properly depending on the Windows10 OS setting. Please check the HDR On / Off setting of Windows. Inction is turned on, the characters or picture quality may be poor according to Graphic card performance. Inction is on, screen flickering or cracking may occur when changing the monitor input or power on/off according to Graphic card

Menu > Game Adju	st	Description		
		On	This mode minimizes motion blur in fast-moving videos. To take full advantage of this function, select 2560 x 1440 @ 120Hz/144Hz/165Hz before enabling 1ms Motion Blur Reduction. This function is available for the following vertical frequency. (120Hz/144Hz/165Hz)	
Game Adjust	1ms Motion Blur Reduction (for 32GN650, 32GN63T)	Off	Turns 1ms Motion Blur Reduction Mode off.	
		1ms Motion IThis functionIt is recomme	tion blur, brightness is reduced with backlight control. Blur Reduction and FreeSync feature can not used at the same time. is game-optimized. Inded to turn off when you are not using the gaming function. Indectical control of the control of	

		On	This mode minimizes motion blur in fast-moving videos. To take full advantage of this function, select 1920 x 1080 @ 120Hz/144Hz before enabling Motion Blur Reduction . This function is available for the following vertical frequency. (120Hz/144Hz)
Game Adjust	Motion Blur Reduction (for 24GN650, 27GN650, 27GN65S)	Off	Turns Motion Blur Reduction Mode off.
		 Motion Blur I This function It is recomme	tion blur, brightness is reduced with backlight control. Reduction and FreeSync feature can not used at the same time. is game-optimized. nded to turn off when you are not using the gaming function. ccur during Motion Blur Reduction operation.

Provides seamless and natural images by synchronizing the vertical frequency of the input signal with that of the output signal. CAUTION Supported Interface: DisplayPort.HDMI. FreeSync Premium • Supported Graphic Card: A graphic card that supports AMD's FreeSync is necessary. (for 32GN650) • Supported Version: Make sure to update the graphic card to the latest driver. · For more information and requirement, refer to AMD website at http://www.amd.com/FreeSync • FreeSync Premium and 1ms Motion Blur Reduction cannot be enabled simultaneously. FreeSvnc function on. On Off FreeSvnc function off. Provides seamless and natural images by synchronizing the vertical frequency of the input signal with that of the output signal. Game Adjust CAUTION In HDMI input, the menu name is displayed as certified AMD FreeSync Tier name instead of Adaptive-Sync. (FreeSync / FreeSync Premium / FreeSync Premium Pro) Supported Interface: DisplayPort (Adaptive-Sync), HDMI (FreeSync). Adaptive-Sync Supported Graphic Card: A graphic card that supports NVIDIA's G-SYNC or AMD's FreeSync is necessary. (for 27GN650, • Supported Version: Make sure to update the graphic card to the latest driver. 27GN65S. · For more information and requirement, refer to NVIDIA website (www.nvidia.com) and AMD website (www.amd.com). 32GN63T) · Adaptive-Sync and Motion Blur Reduction / 1ms Motion Blur Reduction cannot be enabled simultaneously. Adaptive-Sync function on. (Enable wider frequency range of Adaptive-Sync(FreeSync) function than basic Extended mode.) Adaptive-Sync function on. (Enable basic frequency range of Adaptive-Sync(FreeSync) function.) Basic Adaptive-Sync function off. Off

Game Adjust	FreeSync Premium (for 24GN650)	Provides seamless and natural images by synchronizing the vertical frequency of the input signal with that of the output signal. CAUTION Supported Interface: DisplayPort, HDMI. Supported Graphic Card: A graphic card that supports AMD's FreeSync is necessary. Supported Version: Make sure to update the graphic card to the latest driver. For more information and requirement, refer to AMD website at http://www.amd.com/FreeSync FreeSync Premium and Motion Blur Reduction cannot be enabled simultaneously.		
		Extended	FreeSync Premium function on. (Enable wider frequency range of FreeSync function than basic mode.)	
		Basic	FreeSync Premium function on. (Enable basic frequency range of FreeSync function.)	
		Off	FreeSync Premium function off.	
	Black Stabilizer		the black contrast to have better visibility in dark scenes. distinguish objects on dark game screens.	

	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 . Once Faster Mode is selected, Motion Blur may occur depending on the content.		
		Faster	Sets the response time to Faster.	
Cross Hair their gaming environment among four different cross hairs.		Sets the response time to Fast.		
		Sets the response time to Normal.		
		Off	Does not use the response time improvement feature.	
		des a mark on the center of the screen for First Person Shooter (FPS) games. Users can select the cross hair that fits vironment among four different cross hairs. nitor is off or enters energy saving mode, the cross hair feature is automatically turned off.		
		Do you want to reset your Game settings? No Cancel the select.		
	Game Reset			
		Yes	Returns to the default settings.	

Menu > Picture Adjust		Description		
Brightness Contrast		Adjusts the brightness of the screen.		
		Adjusts the contr	ast of the screen.	
	Sharpness	Adjusts the sharp	oness of the screen.	
	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.	
		Custom	The user can adjust it to red, green, or blue by customization.	
	Color Temp	Warm	Sets the screen color to a reddish tone.	
		Medium	Sets the screen color to between a red and blue tone.	
Picture Adjust		Cool	Sets the screen color to a bluish tone.	
		Manual	The user can fine - tune the color temperature.	
	R/G/B	You can customize the picture color using Red , Green , and Blue colors.		
		Meets the user requirements for colors by adjusting the hue and saturation of the six colors and then saving the settings.		
	Six Color	Hue	Adjusts the tone of the screen colors.	
		Saturation	Adjusts the saturation of the screen colors. The lower the value, the less saturated and brighter the colors become. The higher the value, the more saturated and darker the colors become.	
	21.11		evel (for HDMI only). eference for a video signal, this is the darkest color the monitor can display.	
	Black Level	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	On	Adjusts the brightness automatically according to the screen.		
		Off	Disables the DFC feature.		
Picture Adjust	Picture Reset	Do you want to reset your picture settings?			
		No	Cancel the select.		
		Yes	Returns to the default settings.		

Menu > Input		Description		
	Input List	Selects the input mode.		
		Adjusts the aspect ratio of the	screen.	
		Full Wide	Displays the video in widescreen, regardless of the video signal input.	
	Aspect Ratio	Original Displays video according to the aspect ratio of the video signal input.		
Input		NOTE • The display may look the same for Full Wide and Original options at the recommended resolution. (1920 x 1080)		
		When automatic input switch is set to On , display will automatically switch to new input when connected.		
	Auto Input Switch	On Enables Auto Input Switch.		
		Off	Disables Auto Input Switch .	

Menu > General		Description		
	Language	Sets the menu :	screen to the desired language.	
		High	Saves energy using the high-efficiency SMART ENERGY SAVING feature.	
		Low	Saves energy using the low-efficiency SMART ENERGY SAVING feature.	
	SMART ENERGY	Off	Disables the SMART ENERGY SAVING feature.	
	SAVING	NOTE		
		The value of e	nergy saving data may differ depending on panel and panel suppliers.	
		 If you select t 	he option of SMART ENERGY SAVING is High or Low , monitor luminance become lower or higher depend on source.	
	Power LED	On	The power LED turns on automatically.	
	Power LED	Off	The power LED turns off.	
General	Automatic Standby	Feature that automatically turns off the monitor when there is no movement on the screen for a period of time. You can set a time the auto-off function. (8H, 6H, 4H and Off)		
		HDMI Compatib	oility Mode feature can recognize the legacy equipment that does not support HDMI 2.0.	
		On	Enables HDMI Compatibility Mode.	
	НДМІ	Off	Disables HDMI Compatibility Mode.	
	Compatibility	NOTE		
	Mode	• If the connected device does not support HDMI Compatibility Mode , the screen or sound may not work properly.		
		Some older graphics cards do not support HDMI 2.0, but you can select HDMI 2.0 resolution in the control panel of window.		
		This may cause the screen to appear abnormally.		
	DisplayPort Version			

		This feature lets you set the sound generated from Buzzer when your monitor powers on.		
	Buzzer	On	Enables your monitor's Buzzer .	
		Off	Disables your monitor's Buzzer .	
		This feature dis	ables the configuration and adjustment of menus.	
		On	Enables OSD Lock.	
General	OSD Lock	Off	Disables OSD Lock.	
		NOTE		
	All features are disabled except Brightness, Contrast in Picture Adjust,		re disabled except Brightness, Contrast in Picture Adjust, Input, OSD Lock and Information in General .	
	Information	Ne Consol the colect		
	Reset to Initial			
	Settings	Yes	Returns to the default settings.	

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 (Menu > Input).
Is the power LED blinking?	If the monitor is in sleep mode, move the mouse, or press any key on the keyboard, to switch the display on. Check if the computer is turned on.
Is the The screen is not currently set to the recommended resolution. If you have no video or the screen flickers, see the troubleshooting guide in the product owner's manual. message being displayed?	This occurs when signals transferred from the PC (graphics card) are out of the recommended horizontal or vertical frequency range of the monitor. Please see the Product Specification section of this manual to set the appropriate frequency.
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.
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.

Some features are disabled.			
Are some functions not available when you press the Menu button?	The OSD is locked. Go to Menu > General and set OSD Lock to Off.		

The screen	retains a	an image.
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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.

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.



- Vertical Frequency: In order to display an image, the screen must be refreshed dozens of times per second, like a fluorescent lamp. The number of times the screen is refreshed per second is called vertical frequency, or refresh rate, and is represented by Hz.
- Horizontal Frequency: The time it takes to display one horizontal line is called the horizontal cycle. If 1 is divided by the horizontal interval, the result is the number of horizontal lines displayed per second. This is called horizontal frequency and is represented by kHz.
- Check if the graphics card's resolution or frequency is within the range allowed by the monitor and set it to the recommended (optimal) resolution **Control Panel** > **Display** > **Menu** in Windows. (The settings may differ depending on the operating system (OS) you use.)
- 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.
- · Some graphics cards may not support 1920 x 1080 resolution. If the resolution cannot be displayed, contact the manufacturer of your graphics card.

The display color is abnormal.	The display color is abnormal.		
Does the display appear discolored (16 colors)?	• Set the color to 24 bit (true color) or higher. In Windows, go to Control Panel > Display > Menu > Color Quality . (The settings may differ depending on the operating system (OS) you use.)		
Does the display color appear unstable or monochrome?	Check if the signal cable is connected properly. Reconnect the cable or reinsert the PC's graphics card.		
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.		

No sound from the headphone port.		
Are images displayed using DP (DisplayPort) or HDMI input without sound?	 Make sure that the headphone port connections are made properly. Try increasing the volume with the joystick. Set the audio output of the PC to the monitor you are using. On Microsoft Windows, go to Control Panel > Hardware and Sound > Sound > Sound > set the Monitor as default device. (The settings may differ depending on the operating system (OS) you use.) 	

PRODUCT SPECIFICATION

24GN650

LCD Screen	Color Depth	8-bit / 10-bit color is supp	oorted.
Resolution	Max Resolution	1920 x 1080 @ 144 Hz	
	Recommended Resolution	1920 x 1080 @ 144 Hz	
Power Sources	Power Rating	19 V 2.0 A	
	Power Consumption	On mode: 32 W Typ. (Outg	oing condition)*
	(Typical)	Sleep Mode (Standby Mod	e): ≤ 0.5 W **
		Off Mode: ≤ 0.3 W	
AC/DC Adapter	ADS-45SN-19-3 19040G type, manufactu	red by SHENZHEN HONOR	ELECTRONIC
	Or ADS-45SQ-19-3 19040E type, manufac	ctured by SHENZHEN HONG	OR ELECTRONIC
	Or ADS-45FSQ-19 19040EPG-1 type, mar	nufactured by SHENZHEN H	IONOR ELECTRONIC
	Or ADS-45FSQ-19 19040EPK-1 type, manufactured by SHENZHEN HONOR ELECTRONIC		
	Or ADS-45FSQ-19 19040EPCU-1 type, ma	anufactured by SHENZHEN	HONOR ELECTRONIC
	Or ADS-45FSQ-19 19040EPBR-1 type, manufactured by SHENZHEN HONOR ELECTRONIC		
	Or LCAP21C type, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE		
	Or LCAP26B-E type, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE		
	Or LCAP26B-A type, manufactured by LIEN		ERPRISE
	Or AD10530LF type, manufactured by PI E		
	Or AD2137S20 type, manufactured by PI E	` '	
	Or AD2137620 type, manufactured by PI E	Electronics (H.K.) Ltd.	
	Output: 19 V 2.1 A		
Environmental Conditions	Operating Conditions	Temperature	0 °C to 40 °C
		Humidity	Less than 80 %
	Storing Conditions	Temperature	-20 °C to 60 °C
		Humidity	Less than 85 %

Dimensions	Monitor Size (Width x Height x Depth)	
	With Stand 540.8 x 551.1 x 291.2 (mm)	
	Without Stand	540.8 x 323.8 x 42.8 (mm)
Weight (Without Packaging)	With Stand	5.6 kg
	Without Stand	3.4 kg

Specifications are subject to change without notice.

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

^{*} The On mode power consumption is measured with LGE test standard (Full White pattern , Maximum resolution).

^{**} The monitor goes to the Sleep Mode in a couple of minutes(Max 5 minutes).

PRODUCT SPECIFICATION

27GN650 27GN65S

LCD Screen	Color Depth	8-bit / 10-bit color is supp	ported.	
Resolution	Max Resolution	1920 x 1080 @ 144 Hz		
	Recommended Resolution	1920 x 1080 @ 144 Hz		
Power Sources	Power Rating	19 V 2.4 A		
	Power Consumption	On mode: 43 W Typ. (Outo	joing condition)*	
	(Typical)	Sleep Mode (Standby Mod	le) : ≤ 0.5 W **	
		Off Mode: ≤ 0.3 W		
AC/DC Adapter				
	Or ADS-48FSK-19 19048EPCU-1 type, manufactured by SHENZHEN HONOR ELECTRONIC			
	Or ADS-48FSK-19 19048EPK-1 type, manufactured by SHENZHEN HONOR ELECTRONIC			
	Or ADS-48FSK-19 19048EPG-1 type, manufactured by SHENZHEN HONOR ELECTRONIC			
	Or MS-Z2530R190-048M0-E type, manufactured by MOSO POWER SUPPLY TECHNOLOGY CO LTD			
	Or MS-V2530R190-048L0-DE type, manufactured by MOSO POWER SUPPLY TECHNOLOGY CO LTD			
	Or MS-V2530R190-048L0-KR type, manufactured by MOSO POWER SUPPLY TECHNOLOGY CO LTD			
	Or MS-V2530R190-048L0-US type, manu	factured by MOSO POWER	SUPPLY TECHNOLOGY CO LTD	
	Output: 19 V 2.53 A	,		
Environmental Conditions	Operating Conditions	Temperature	0 °C to 40 °C	
		Humidity	Less than 80 %	
	Storing Conditions	Temperature	-20 °C to 60 °C	
		Humidity	Less than 85 %	

Dimensions	Monitor Size (Width x Height x Depth)		
	With Stand	614.2 x 575.9 x 291.2(mm)	
	Without Stand	614.2 x 364.8 x 51.7 (mm)	
Weight (Without Packaging)	With Stand	7.2 kg	
	Without Stand	5.1 kg	

Specifications are subject to change without notice.

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

^{*} The On mode power consumption is measured with LGE test standard (Full White pattern , Maximum resolution).

^{**} The monitor goes to the Sleep Mode in a couple of minutes(Max 5 minutes).

PRODUCT SPECIFICATION

32GN650 32GN63T

32GING30 32GING31	1		
LCD Screen	Color Depth	8-bit / 10-bit color is supp	oorted.
Resolution	Max Resolution	2560 x 1440 @ 144 Hz (HDMI)
		2560 x 1440 @ 165 Hz (DP)
	Recommended Resolution	2560 x 1440 @ 120 Hz	
Power Sources	Power Rating	19 V 3.3 A	
	Power Consumption	On mode: 60 W Typ. (Outg	oing condition)*
	(Typical)	Sleep Mode (Standby Mod	e): ≤ 0.5 W **
		Off Mode: ≤ 0.3 W	
AC/DC Adapter	DA-65G19 type, manufactured by Asian Power Devices Inc.		
	Or LCAP39 type, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE		
	Or ADS-65FAI-19 19065EPG-1 type, man	ufactured by SHENZHEN HO	ONOR ELECTRONIC
	Or ADS-65FAI-19 19065EPK-1 type, manufactured by SHENZHEN HONOR ELECTRONIC Or ADS-65FAI-19 19065EPCU-1 type, manufactured by SHENZHEN HONOR ELECTRONIC		
	Or ADS-65AI-19-3 19065E type, manufac	tured by SHENZHEN HONO	OR ELECTRONIC
	Or MS-V3420R190-065L0-DE type, manu	factured by MOSO POWER	Supply Technology CO LTD
	Or MS-V3420R190-065L0-KR type, manu	factured by MOSO POWER	Supply Technology CO LTD
	Or MS-V3420R190-065L0-US type, manu	factured by MOSO POWER	Supply Technology CO LTD
	Output: 19 V 3.42 A		
Environmental Conditions	Operating Conditions	Temperature	0 °C to 40 °C
		Humidity	Less than 80 %
	Storing Conditions	Temperature	-20 °C to 60 °C
		Humidity	Less than 85 %

Dimensions	Monitor Size (Width x Height x Depth)	
	With Stand 714.7 x 600.3 x 292.1(mm)	
	Without Stand	714.7 x 428 x 50.9(mm)
Weight (Without Packaging)	With Stand	7.2 kg
	Without Stand	5.1 kg

Specifications are subject to change without notice.

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

^{*} The On mode power consumption is measured with LGE test standard (Full White pattern , Maximum resolution).

^{**} The monitor goes to the Sleep Mode in a couple of minutes(Max 5 minutes).

Factory Support Mode

(Preset Mode, HDMI/ DisplayPort PC)

24GN650

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
640 x 480	31.469	59.94	-/-	
800 x 600	76.302	120	+/-	
800 x 600	37.879	60.317	+/+	
1024 x 768	97.551	120	+/-	
1024 x 768	48.363	60.0	-/-	
1280 x 720	45	60	+/+	DisplayPort
1920 x 1080	67.5	60	+/+	
1920 x 1080	84.36	74.99	+/+	
1920 x 1080	137.26	119.98 (120)	+/+	
1920 x 1080	168.46	143.98	+/-	

27GN650 27GN65S

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
640 x 480	31.469	59.94	-/-	
1920 x 1080	67.5	60	+/+	
1920 x 1080	137.26	119.98	+/+	
1920 x 1080	168.46	143.98	+/+	

32GN650 32GN63T

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
640 x 480	31.469	59.94	-/-	
800 x 600	37.879	60.317	+/+	
1024 x 768	48.363	60	-/-	
1920 x 1080	67.5	60	+/+	
2560 x 1440	88.79	59.95	+/-	
2560 x 1440	111.86	74.97	+/-	HDMI
2560 x 1440	183	120	+/+	
2560 x 1440	219.21	143.93	+/-	HDMI
2560 x 1440	222.15	143.97	+/-	DisplayPort
2560 x 1440	249.74	164.96	+/-	DisplayPort

If you use an input timing that is outside the supported frequency, you may experience poor response speed or image quality.

HDMI Timing (Video)

24GN650 32GN650 32GN63T

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Remarks
480P	31,5	60	
720P	45	60	
1080P	67,5	60	
1080P	135	120	HDMI Compatibility Mode: Off
2160P	135	60	HDMI Compatibility Mode: Off

27GN650 27GN65S

Preset Mode	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	67.5	60	
1080P	135	120	HDMI Compatibility Mode: Off
2160P	54	24	HDMI Compatibility Mode: Off
2160P	56.25	25	HDMI Compatibility Mode: Off
2160P	67.5	30	HDMI Compatibility Mode: Off
2160P	112.5	50	HDMI Compatibility Mode: Off
2160P	135	60	HDMI Compatibility Mode: Off

Power LED

Mode	LED Color
On Mode	Red (For a few seconds)
Sleep Mode (Standby Mode)	Off
Off Mode	Off



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.		
SCHOOL SCHOOL		