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> LG 27" UltraGear 4K UHD (3840x2160) Gaming Monitor, 144Hz, 1ms, VESA DisplayHDR 400, G-SYNC and AMD FreeSync Premium, HDMI 2.1, DisplayPort, 4-Pole HP Out DTS HP:X, Tilt/Height/Pivot Stand, Black 27 Inch Monitor

LG 27GR93U

LG 27" UltraGear 4K UHD Gaming Monitor Instruction Manual

Brand: LG | Model: 27GR93U

1. INTRODUCTION

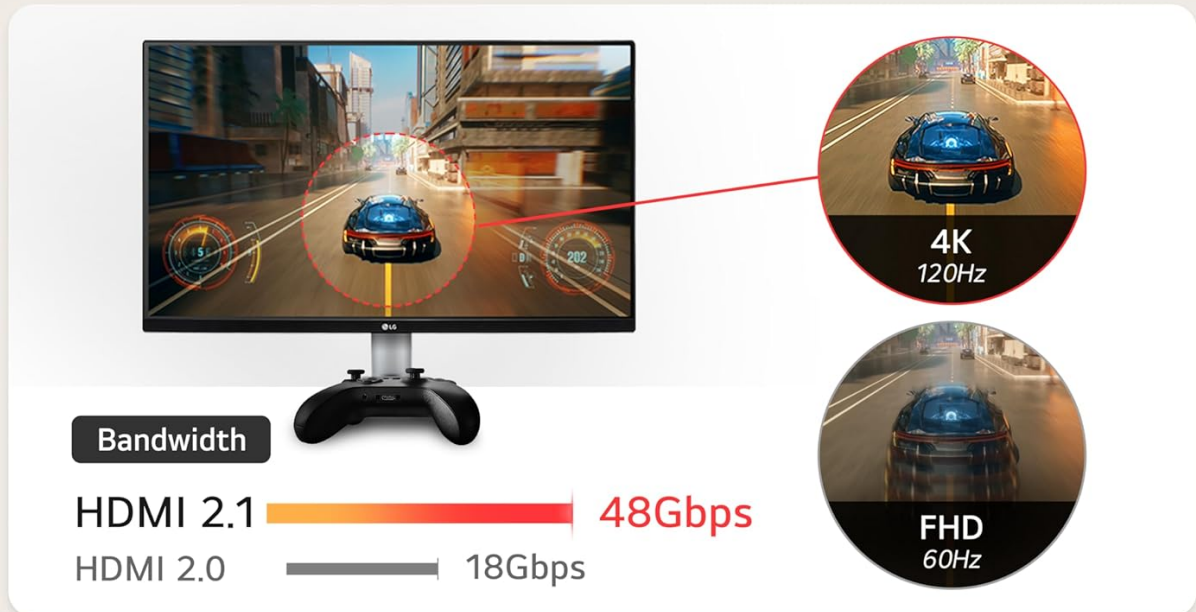
Welcome to the instruction manual for your LG 27" UltraGear 4K UHD (3840x2160) Gaming Monitor. This monitor is designed to provide an exceptional gaming experience with its high performance, speed, and gaming-centric features. The large 27-inch UHD IPS display offers vivid colors and contrast, complemented by a 144Hz refresh rate and 1ms response time for ultra-responsive and smooth on-screen action. This manual will guide you through the setup, operation, maintenance, and troubleshooting of your new monitor.

2. KEY FEATURES

- **4K UHD at Up To 144Hz from HDMI 2.1:** Experience gaming at up to 4K UHD resolution with an ultra-smooth 144Hz refresh rate on PC games and up to 120Hz refresh rate support on next-gen gaming consoles via HDMI 2.1.

HDMI 2.1

Higher resolution at higher frame rates.



*Dramatized for illustrative purposes. Graphics card (sold separately) that supports HDMI 2.1 and HDMI 2.1 cable (included) is required to work properly.

Image: Illustrates the higher bandwidth of HDMI 2.1 compared to HDMI 2.0, enabling 4K at 120Hz.

- **IPS 1ms (GtG) Display:** Re-imagine every scene with vivid, responsive IPS technology. The 27-inch LG UltraGear IPS Display features vibrant color, contrast, clarity, and detail, while delivering ultra-fast 1ms (GtG) response rates.

1ms (GtG) Response Time

Designed for
incredible speed.



*Dramatized for illustrative purposes.

Image: Demonstrates the speed of 1ms GtG response time, showing clear motion without blur.

- **NVIDIA G-SYNC Compatible & AMD FreeSync Premium:** Officially validated by NVIDIA as G-SYNC Compatible and equipped with AMD FreeSync Premium, this monitor ensures faster, smoother gaming by reducing screen tearing and stutter.

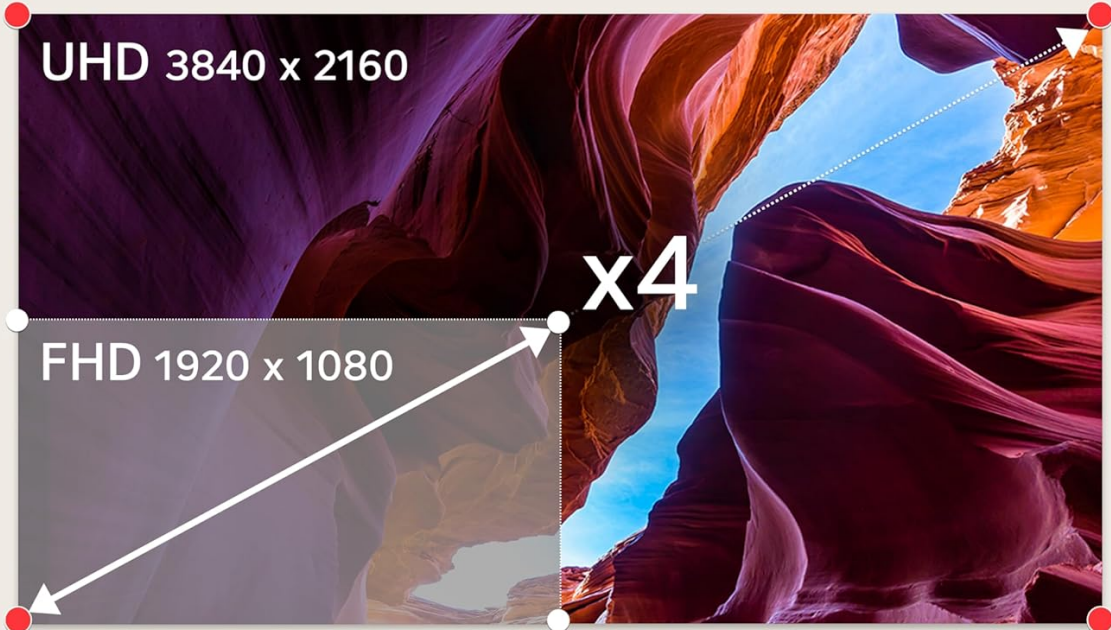


Image: Logos for NVIDIA G-SYNC and AMD FreeSync Premium, indicating adaptive sync technologies.

- **UHD 4K Display:** See the game as it was meant to be seen with vivid picture on a large 27-inch IPS screen for an even bigger gaming experience.

4K UHD Display

Higher resolution than Full HD.



4 times more pixel than FHD

*Dramatized for illustrative purposes.

Image: Visual comparison showing 4K UHD resolution (3840x2160) having four times more pixels than Full HD (1920x1080).

- **HDR400 with up to DCI-P3 95% (Typ.):** This UltraGear display supports up to 95% (Typ.) of the DCI-P3 color gamut, expressing high-fidelity color paired with VESA DisplayHDR 400 delivering dynamic contrast on the QHD display.

DCI-P3 95%

Vibrant color that pops.



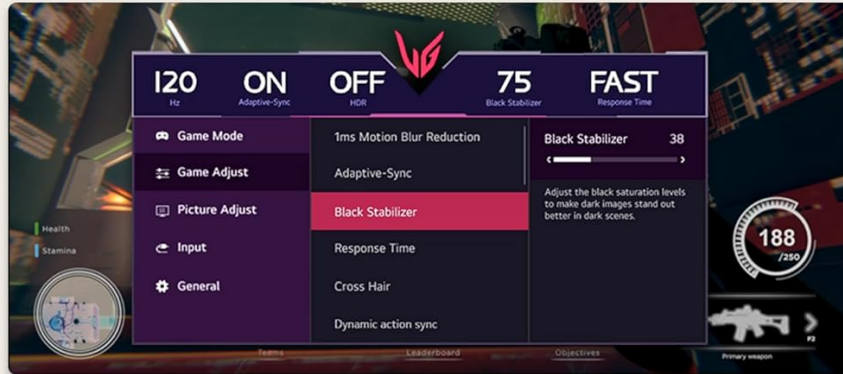
*DCI-P3 Typical 95%, Minimum 90%. Dramatized for illustrative purposes.

Image: Illustrates the vibrant color reproduction with DCI-P3 95% compared to sRGB.

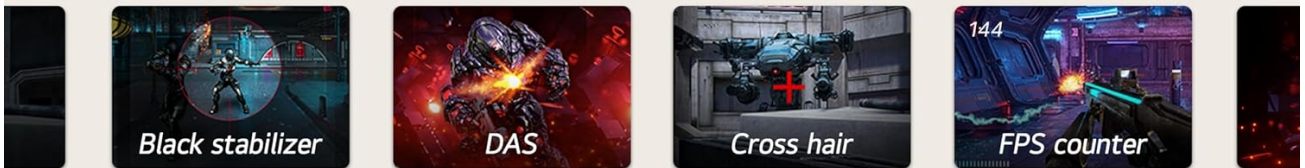
- **Advanced Gaming Features:** Includes Dynamic Action Sync, Black Stabilizer, FPS Counter, and Crosshair for an optimized gaming experience.

Gaming GUI

Advanced Gaming Features.



Quick gaming setup



*Simulated image. Crosshair feature not available with FPS counter is activated. OnScreen Control software installation required. Visit support on LG.com to download.

Image: Shows the Gaming GUI with options like Black Stabilizer, DAS, Crosshair, and FPS Counter.

- **Ergonomic Design:** Features a 3-side virtually borderless design and a stand with tilt, height, and pivot adjustability for comfortable viewing.





Image: Demonstrates the monitor's height adjustment capability.

Product Overview Video

Your browser does not support the video tag.

Video: An official product overview highlighting the key features and design of the LG UltraGear monitor.

3. SETUP

3.1 Unpacking

Carefully remove the monitor and all components from the packaging. Ensure all parts listed in the packing contents are present and undamaged. Keep the original packaging for future transport or service needs.



Image: The LG UltraGear monitor, ready for setup.

3.2 Assembling the Stand

1. Attach the stand base to the stand neck using the integrated screw.
2. Align the stand assembly with the mounting slot on the back of the monitor.
3. Gently push the stand into the slot until it clicks securely into place.



Image: Rear view of the monitor showing the stand attachment area and various ports.

3.3 Connecting Cables

- Connect the power adapter to the DC-IN port on the monitor and then to a power outlet.
- Connect your PC or gaming console to the monitor using an HDMI 2.1 or DisplayPort cable. For optimal performance, use the provided cables or certified high-speed cables.
- (Optional) Connect USB devices to the USB 3.0 ports on the monitor.
- (Optional) Connect headphones to the 4-Pole HP Out port for DTS HP:X audio.



Image: Detailed view of the monitor's input and output ports, including HDMI, DisplayPort, USB, and headphone jack.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Press the joystick button located at the bottom center of the monitor to power it on or off. A short press will bring up the OSD menu.

4.2 On-Screen Display (OSD) Menu Navigation

Use the joystick button to navigate the OSD menu. Move the joystick up, down, left, or right to select options and press it to confirm. The OSD allows you to adjust various settings including:

- **Game Mode:** Select optimized picture settings for different game genres (e.g., FPS, RTS).
- **Picture Adjust:** Control brightness, contrast, sharpness, and color temperature.
- **Input:** Manually select the input source (HDMI 1, HDMI 2, DisplayPort).
- **General:** Access system settings, language, and power options.



Image: Depicts the OnScreen Control software interface, which allows for easy adjustment of monitor settings and screen splitting.

4.3 Adjusting the Stand

The monitor stand offers multiple adjustment options for ergonomic comfort:

- **Height Adjustment:** Gently push or pull the monitor up or down to adjust its height.
- **Tilt Adjustment:** Tilt the monitor screen forward or backward to find your preferred viewing angle.
- **Pivot Adjustment:** Rotate the monitor 90 degrees to switch between landscape and portrait orientations.

3-Side Virtually Borderless Design

**More screen.
Less bezel.**



*Simulated image

Image: Shows the monitor's versatile stand, capable of tilt, height, and pivot adjustments for optimal viewing.

5. MAINTENANCE

5.1 Cleaning the Monitor

- Always unplug the monitor from the power outlet before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a mild, non-abrasive screen cleaner.
- Wipe the screen and exterior surfaces gently. Avoid spraying liquid directly onto the screen or into any openings.
- Do not use alcohol, benzene, thinners, or other volatile substances, as they may damage the monitor.

5.2 General Care

- Avoid placing the monitor in direct sunlight or near heat sources.
- Do not block the ventilation openings on the monitor.
- Handle the monitor with care to prevent physical damage.

6. TROUBLESHOOTING

If you encounter issues with your monitor, refer to the common problems and solutions below before contacting support.

Problem	Possible Cause	Solution
No image appears on the screen.	Power cable disconnected; input cable disconnected; incorrect input source selected.	Check power and input cable connections. Select the correct input source via the OSD menu.
Screen flickering or vertical lines.	Loose cable connection; graphics card issue; monitor defect.	Ensure cables are securely connected. Try a different cable or input port. If the issue persists, it may indicate a hardware problem with the monitor or graphics card. Power cycling the monitor (turning it off and on) can sometimes resolve temporary display artifacts.
Image is blurry or distorted.	Incorrect resolution; picture settings.	Set the display resolution to its native 3840x2160. Adjust sharpness and other picture settings in the OSD menu.
No sound from headphones.	Headphones not properly connected; audio settings.	Ensure headphones are fully plugged into the 4-Pole HP Out port. Check audio output settings on your PC/console and monitor.

7. SPECIFICATIONS

Feature	Detail
Brand	LG
Model Number	27GR93U
Screen Size	27 Inches
Screen Resolution	3840x2160 (4K UHD)
Refresh Rate	144Hz
Response Time	1ms (GtG)
Panel Type	IPS
HDR Support	VESA DisplayHDR 400
Color Gamut	Up to DCI-P3 95% (Typ.)
Adaptive Sync	NVIDIA G-SYNC Compatible, AMD FreeSync Premium
Connectivity	HDMI 2.1, DisplayPort, 3x USB 3.0, 4-Pole HP Out
Ergonomics	Tilt, Height, Pivot Adjustable Stand

Feature	Detail
Item Weight	14.1 pounds
Product Dimensions	10 x 24.2 x 22.7 inches

8. WARRANTY AND SUPPORT

Your LG 27" UltraGear Gaming Monitor comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions, including coverage duration and service procedures.

For technical support, troubleshooting assistance, or warranty claims, please contact LG Customer Service through their official website or the contact information provided in your product documentation. You may also visit [LG Support](#) for online resources, FAQs, and driver downloads.