

LG 27GX704A-B

LG 27GX704A-B 27-inch UltraGear QHD OLED Gaming Monitor Instruction Manual

Brand: LG

Model: 27GX704A-B

1. INTRODUCTION

The LG 27GX704A-B UltraGear OLED Gaming Monitor is designed for high-performance gaming and visual clarity. Featuring a 27-inch QHD (2560 x 1440) OLED display, it offers a 240Hz refresh rate and an ultra-fast 0.03ms response time for smooth, tear-free gameplay. This monitor supports NVIDIA G-Sync Compatibility and AMD FreeSync Premium Pro, ensuring synchronized frame rates with your GPU. Its glossy OLED panel delivers deep blacks, vibrant colors with up to 98.5% DCI-P3 coverage, and VESA DisplayHDR True Black 400 for exceptional contrast. The monitor also incorporates eye comfort features with UL certifications for Anti-Glare, Flicker-Free, and Low Blue Light.



Figure 1: LG 27GX704A-B UltraGear OLED Monitor highlighting its glossy QHD OLED display.

2. SETUP

2.1. Unpacking the Monitor

Carefully remove all components from the packaging. Ensure the following items are present:

- Monitor
- Power Cable
- DisplayPort Cable
- HDMI Cable
- USB A to B Cable

2.2. Assembling the Stand

Attach the stand base to the stand neck, then secure the assembled stand to the monitor panel. Refer to the quick setup guide included in the box for detailed instructions. The stand is fully adjustable, allowing for swivel, tilt, height, and pivot adjustments to optimize your viewing experience.



Figure 2: Adjustable stand features for ergonomic positioning.

2.3. Connecting Cables

Connect the necessary cables to the monitor's input ports. The monitor supports dual HDMI 2.1, DisplayPort 1.4, and USB 3.2 ports (one upstream, two downstream).

- **Power Cable:** Connect to the DC-IN port and a power outlet.
- **DisplayPort Cable:** For optimal performance, connect to your PC's graphics card.
- **HDMI Cable:** Use for connecting to consoles or other devices.
- **USB A to B Cable:** Connect the USB upstream port on the monitor to your PC to enable the downstream USB ports on the monitor.



Figure 3: Rear view of monitor ports for connectivity.

3. OPERATING THE MONITOR

3.1. Power On/Off and OSD Navigation

Press the joystick button located at the bottom center of the monitor to power it on or off. Use the joystick to navigate the On-Screen Display (OSD) menu for various settings and adjustments. The LG Switch app can also be used for fine-tuning performance settings and switching display modes.

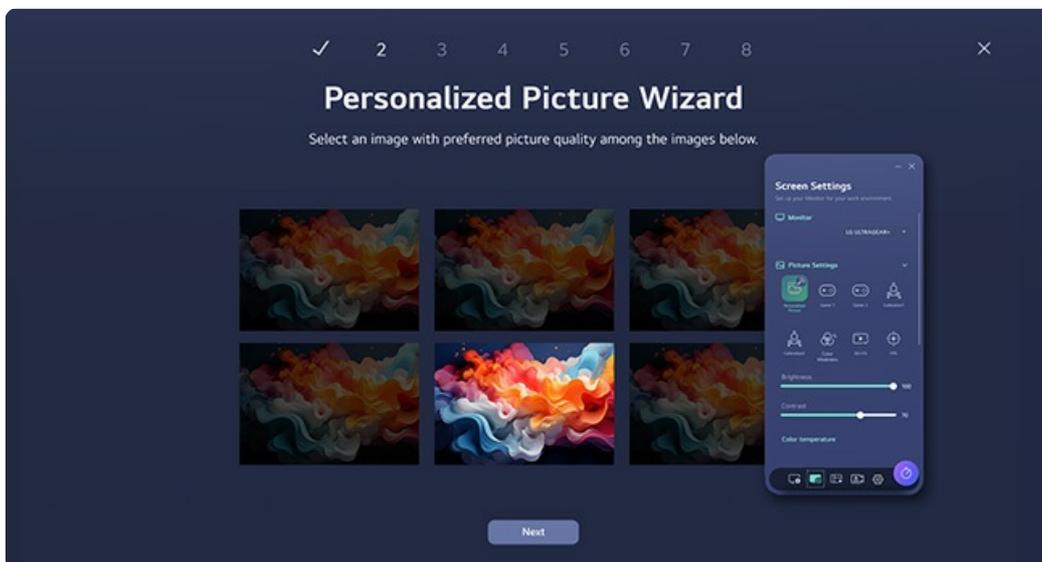


Figure 4: On-Screen Control interface for monitor settings.

3.2. Gaming Performance Features

The LG 27GX704A-B is equipped with features to enhance your gaming experience:

- **240Hz Refresh Rate & 0.03ms Response Time:** Experience ultra-smooth, tear-free gameplay with minimal ghosting.

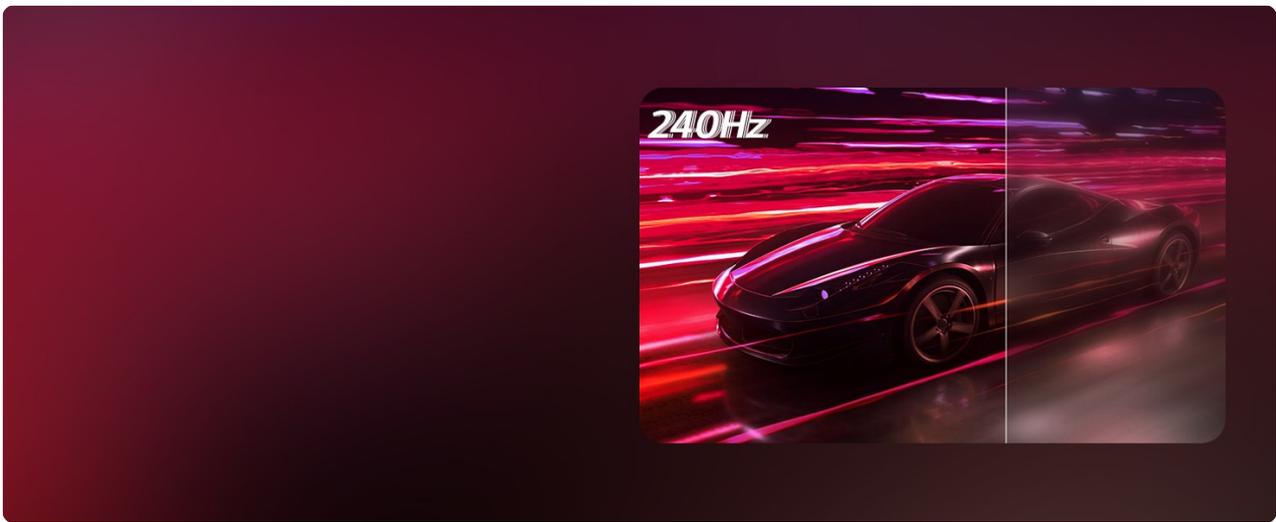


Figure 5: Visual comparison of 60Hz vs. 240Hz refresh rates.



Figure 6: Visual comparison of response time, highlighting 0.03ms GtG.

- **NVIDIA G-Sync Compatible & AMD FreeSync Premium Pro:** These technologies synchronize the monitor's refresh rate with your GPU's frame rate, eliminating screen tearing and stuttering for a fluid gaming experience.

Your browser does not support the video tag.

Video 1: Demonstrates how AMD FreeSync Premium Pro eliminates screen tearing and stuttering in gaming.

- **Dynamic Action Sync (DAS):** Reduces input lag, allowing you to react instantly to in-game actions.
- **Black Stabilizer:** Adjusts the black saturation levels to make dark images stand out better, helping you spot enemies in dark areas.
- **Crosshair:** Places a fixed crosshair in the center of the screen to enhance aiming accuracy in first-person shooter games.
- **FPS Counter:** Displays your current frames per second in real-time, allowing you to monitor performance.

Your browser does not support the video tag.

Video 2: Overview of LG UltraGear Gaming UI features including Crosshair, Black Stabilizer, Dynamic Action Sync, and FPS Counter.

3.3. Picture Quality Enhancements

- **QHD (2560 x 1440) OLED Display:** Delivers sharp visuals with exceptional clarity.
- **VESA DisplayHDR True Black 400:** Provides deep blacks and dazzling highlights with a 1.5M:1 contrast ratio.
- **98.5% DCI-P3 Color Coverage:** Ensures vibrant and accurate color reproduction.



Figure 7: Key specifications for stunning OLED picture quality.

4. MAINTENANCE

4.1. OLED Care Features

To mitigate image retention and ensure the longevity of your OLED panel, the monitor includes several OLED Care features:

- **Screen Move:** Moves the screen slightly at regular intervals to prevent image sticking.
- **Screen Saver:** Activates a screen saver when the monitor is idle.
- **Image Cleaning:** Runs a pixel cleaning cycle to refresh the display.
- **Pixel Cleaning:** Automatic pixel care cycles run during standby or shutdown.

These settings can be accessed and configured through the OSD menu or the LG Switch app.

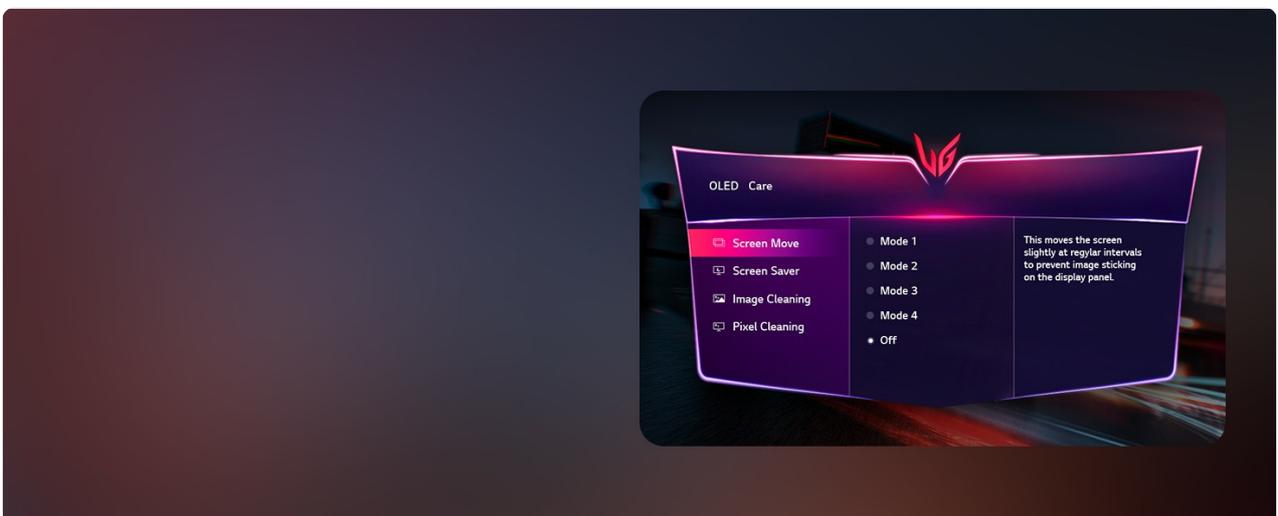


Figure 8: OLED Care menu for display protection.

4.2. Cleaning the Monitor

To clean the monitor, gently wipe the screen with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with water or a mild, non-abrasive screen cleaner. Avoid using harsh chemicals or abrasive materials that could damage the screen or casing.

5. TROUBLESHOOTING

5.1. Common Issues and Solutions

- **Screen Tearing or Stuttering:** Ensure NVIDIA G-Sync or AMD FreeSync Premium Pro is enabled in your graphics card settings and on the monitor's OSD.
- **Difficulty Seeing in Dark Game Scenes:** Activate and adjust the **Black Stabilizer** feature in the monitor's OSD to enhance visibility in dark areas.
- **Eye Strain During Extended Use:** The monitor is UL-certified for Anti-Glare, Flicker-Free, and Low Blue Light. Adjust brightness levels and take regular breaks to reduce eye fatigue.
- **Image Retention (Temporary or Permanent):** Utilize the **OLED Care** features (Screen Move, Image Cleaning, Pixel Cleaning) regularly to prevent and mitigate image retention. Avoid displaying static images for prolonged periods.

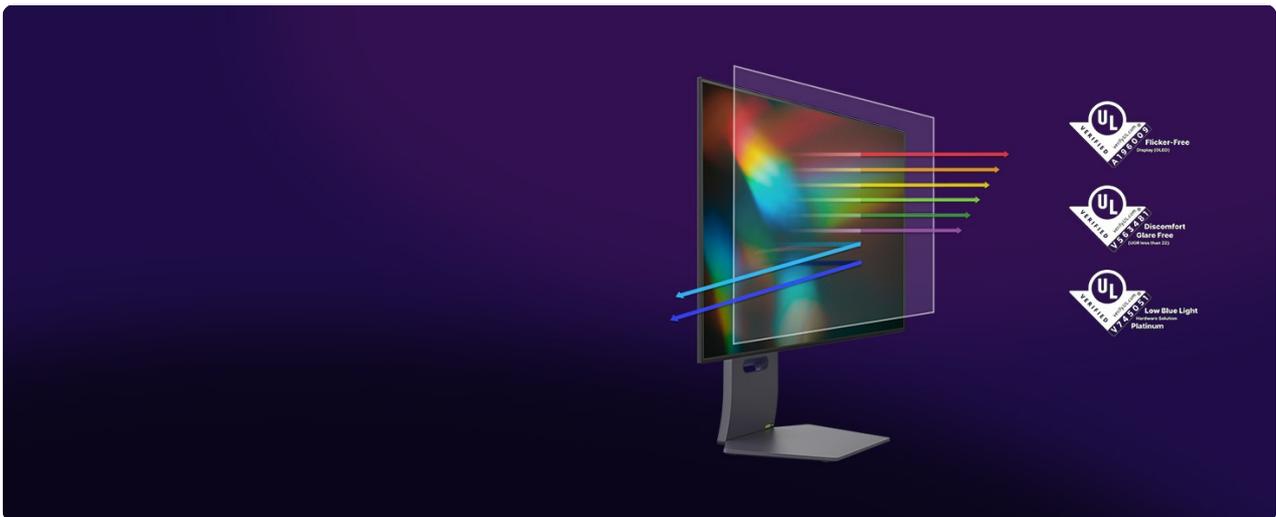


Figure 9: UL certifications for enhanced eye comfort.

6. SPECIFICATIONS

Feature	Specification
Standing screen display size	27 Inches
Screen Resolution	2560x1440 (QHD Wide 1440p)
Max Screen Resolution	2560 x 1440 Pixels

Feature	Specification
Aspect Ratio	16:9
Screen Surface Description	Glossy
Refresh Rate	240Hz
Response Time	0.03ms (GtG)
HDR Support	VESA Display HDR TrueBlack 400
Adaptive Sync	NVIDIA G-Sync Compatible, AMD FreeSync Premium Pro
Connectivity	2x HDMI 2.1, 1x DisplayPort 1.4, 1x USB 3.2 Upstream, 2x USB 3.2 Downstream
Color	Black
Item Weight	15.9 pounds
Product Dimensions (LxWxH)	8.7 x 23.8 x 21 inches
Manufacturer	LG Electronics Inc.
Model Number	27GX704A-B.AUS

7. WARRANTY AND SUPPORT

7.1. Product Warranty

This LG monitor comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official LG website for detailed warranty terms and conditions specific to your region.

7.2. Customer Support

For technical assistance, troubleshooting, or service inquiries, please contact LG Customer Support. You can find contact information and additional resources on the official LG website: [LG Support](#)