AOC 27G4E

AOC 27G4E 27 Inch Gaming Monitor User Manual

Model: 27G4E

1. INTRODUCTION

This manual provides essential information for the AOC 27G4E 27-inch Gaming Monitor. It covers product features, setup instructions, operational guidelines, maintenance tips, troubleshooting solutions, and detailed technical specifications. Please read this manual thoroughly before using your monitor to ensure proper installation and optimal performance.

Key Features:

- **Immersive Visuals:** 27-inch Full HD (1920x1080) IPS display for clear visuals and vibrant detail.
- **Ultra-Fast Refresh Rate:** 180Hz refresh rate for smooth and fluid performance.
- **Rapid Response Time:** 0.5ms (MPRT) response time to minimize motion blur.
- **Adaptive Sync Technology:** Eliminates screen tearing and stuttering for a seamless gaming experience.
- **Enhanced Color Accuracy:** 128% sRGB color gamut with HDR10 compatibility and 300 cd/m² brightness.
- **Wide Viewing Angle:** 178° ultra-wide viewing angle for consistent visuals.
- **Multiple Connectivity:** Equipped with HDMI 2.0 and DisplayPort 1.4.

Figure 1.1: Front view of the AOC 27G4E Gaming Monitor, highlighting its sleek design and narrow bezels.

2. SETUP

2.1 Unpacking the Monitor

Carefully remove all components from the packaging. Ensure all parts listed in the packing list are present. Keep the original packaging for future transportation or service needs.
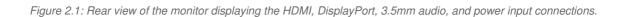
2.2 Stand Assembly

1. Place the monitor face down on a soft, clean surface to prevent scratches.
2. Attach the stand neck to the monitor panel, ensuring it clicks securely into place.
3. Attach the base to the stand neck and tighten the screw at the bottom of the base.

2.3 Connecting Cables

Connect the necessary cables to the monitor and your computer or other devices. Ensure the monitor is powered off before making any connections.

- **Power Cable:** Connect the power cable to the monitor's power input and then to a power outlet.
- **Video Cables:** Connect either an HDMI cable or a DisplayPort cable from your computer's graphics card to the corresponding input on the monitor. For optimal performance, DisplayPort is recommended for higher refresh rates.
- **Audio Cable (Optional):** If using external speakers or headphones, connect them to the 3.5mm audio output jack on the monitor.

Figure 2.1: Rear view of the monitor displaying the HDMI, DisplayPort, 3.5mm audio, and power input connections.

3. OPERATING THE MONITOR

3.1 Power On/Off

Press the power button located on the bottom right side of the monitor to turn it on or off. The power indicator light will illuminate when the monitor is on.

3.2 On-Screen Display (OSD) Navigation

The monitor's settings can be adjusted using the OSD menu. Use the control buttons (usually located on the bottom right or rear of the monitor) to navigate the menu. Common OSD options include:

- **Luminance:** Adjust brightness, contrast, and gamma.
- **Color Setup:** Adjust color temperature, sRGB mode, and other color settings.
- **Picture Boost:** Specific settings for enhancing certain areas of the screen.
- **OSD Setup:** Adjust OSD position, transparency, and timeout.
- **Game Setting:** Access game modes, G-Sync/Adaptive Sync, Low Input Lag, and other gaming-specific features.
- **Extra:** Input selection, reset, and information.

3.3 Refresh Rate Settings

The AOC 27G4E supports a 180Hz refresh rate for ultra-smooth motion. To ensure your monitor is running at 180Hz:

1. Right-click on your desktop and select 'Display settings' (Windows) or 'System Preferences' > 'Displays' (macOS).
2. Navigate to 'Advanced display settings' or 'Display Adapter Properties'.
3. Select the 'Monitor' tab and choose '180 Hertz' from the 'Screen refresh rate' dropdown menu.
4. Click 'Apply' and 'OK'.

Figure 3.1: Visual representation of motion clarity improvement with higher refresh rates, from 60Hz to 180Hz.

3.4 Adaptive Sync (NVIDIA G-Sync Compatible)

This monitor supports Adaptive Sync technology, which synchronizes the monitor's refresh rate with your GPU's frame rate to eliminate screen tearing and stuttering. For NVIDIA GPUs, ensure G-Sync is enabled in the NVIDIA Control Panel.

1. Ensure your graphics card drivers are up to date.
2. Open the NVIDIA Control Panel (for NVIDIA GPUs) or AMD Radeon Software (for AMD GPUs).
3. Navigate to 'Set up G-SYNC' or 'FreeSync' settings.
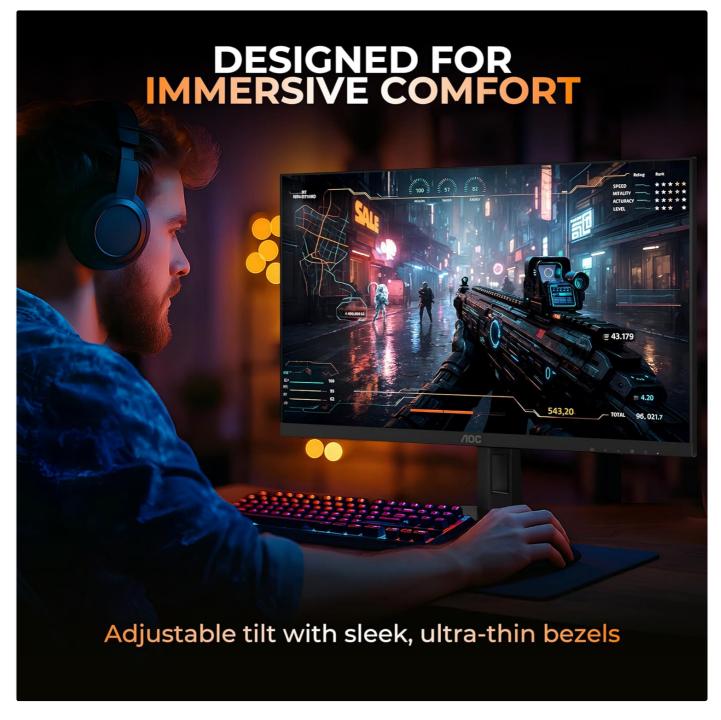4. Enable G-SYNC/FreeSync for your monitor.

Figure 3.2: Illustration of how NVIDIA G-Sync provides smooth, tear-free visuals by synchronizing display and GPU.

3.5 HDR10 Support

The monitor supports HDR10, providing a wider range of colors and contrast for a more dynamic visual experience. To enable HDR:

1. Ensure your operating system (Windows 10/11) and applications support HDR.
2. Go to 'Display settings' in Windows.
3. Under 'Windows HD Color', toggle 'Play HDR games and apps' to On.
4. Adjust brightness and color settings as desired within the OSD or Windows settings for optimal HDR viewing.

Figure 3.3: Display of rich and vivid colors, showcasing the monitor's HDR10 and wide color gamut capabilities.

4. MAINTENANCE

4.1 Cleaning the Monitor

To maintain the monitor's appearance and performance, follow these cleaning guidelines:

- Always unplug the monitor from the power outlet before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a non-abrasive screen cleaner.
- Gently wipe the screen and exterior surfaces. Avoid applying excessive pressure.
- Do not use alcohol, ammonia, or abrasive cleaners, as they can damage the screen surface.
- Never spray liquid directly onto the screen or into any openings.

4.2 Storage

When storing the monitor for an extended period, use the original packaging to protect it from dust and physical damage. Store in a cool, dry place away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your monitor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on screen	Power cable not connected; Video cable loose or incorrect input selected.	Ensure power cable is securely connected. Check video cable connection. Press the input select button on the monitor to cycle through inputs.
Image is blurry or distorted	Incorrect resolution or refresh rate; Graphics card driver issues.	Set the display resolution to 1920x1080 and refresh rate to 180Hz in your computer's display settings. Update graphics card drivers.
Screen flickering	Loose video cable; Adaptive Sync issues; Interference.	Check video cable connection. Disable/re-enable Adaptive Sync in OSD and GPU settings. Ensure no strong electromagnetic interference sources are nearby.
No sound from speakers/headphones	Volume too low; Incorrect audio output selected on PC.	Increase monitor volume via OSD. Ensure the monitor is selected as the default audio output device in your computer's sound settings.
OSD menu not appearing	Buttons not functioning; Monitor locked.	Ensure buttons are not stuck. Some monitors have an OSD lock feature; refer to the OSD section for unlocking procedures if applicable.

If the problem persists after trying these solutions, please contact AOC customer support.

6. SPECIFICATIONS

Detailed technical specifications for the AOC 27G4E Gaming Monitor:

Feature	Specification
Brand	AOC
Model Number	27G4E
Screen Size	27 Inches
Panel Type	Fast IPS
Resolution	1920 x 1080 (FHD 1080p)
Refresh Rate	180Hz
Response Time	0.5ms (MPRT)

Feature	Specification
Color Gamut	128% sRGB, 102% DCI-P3, 111% NTSC
HDR Support	HDR10
Brightness	300 cd/m²
Viewing Angle	178° (H) / 178° (V)
Connectivity	2 x HDMI 2.0, 1 x DisplayPort 1.4, 1 x 3.5mm Audio Out
Adaptive Sync	Yes (NVIDIA G-Sync Compatible)
Dimensions (WxHxD)	61.39 x 46.04 x 5.12 cm (without stand)
Item Weight	3.6 kg
Power Consumption	Typical: [Not specified in input, placeholder if needed]

7. WARRANTY AND SUPPORT

7.1 Product Warranty

The AOC 27G4E Gaming Monitor comes with a **3-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures repair or replacement of the product under normal use conditions. Please retain your purchase receipt as proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact AOC customer support. You can find contact information on the official AOC website or through the details provided with your product packaging.

Manufacturer: TPV Technology

Importer: TPV TECHNOLOGY INDIA PRIVATE LIMITED, 501-508, 5TH FLOOR BESTECH CHAMBERS, BLOCK B SEC 27, SUSHANT LOK 1 GURUGRAM – 122005

For the most up-to-date support information, visit the official AOC website: www.aoc.com

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