

GIGABYTE M27QA-US

GIGABYTE M27Q Advanced Gaming Monitor User Manual

Model: M27QA-US

1. INTRODUCTION

This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your GIGABYTE M27Q Advanced 27-inch SS IPS Gaming Monitor. Please read this manual thoroughly before using the product to ensure proper functionality and to maximize your user experience.

Key Features:

- **Display:** 27-inch QHD (2560x1440) Super Speed IPS Panel
- **Performance:** 180Hz Refresh Rate, 1ms MPRT Response Time
- **Color Accuracy:** 95% DCI-P3, 10-bit Color Depth
- **Connectivity:** 2x HDMI 2.0, 1x DisplayPort 1.4, 1x USB Type-C, 2x USB 3.2 Downstream, 1x USB 3.2 Upstream, 1x Earphone Jack
- **Special Features:** Type-C KVM, VESA DisplayHDR 400, TÜV Rheinland Certified, AMD FreeSync Premium

2. SETUP GUIDE

2.1 Package Contents

Verify that all components are present in the packaging:

- GIGABYTE M27Q Advanced Monitor Panel
- Monitor Stand (Base and Neck)
- Power Cable
- HDMI Cable
- DisplayPort Cable
- USB Upstream Cable
- User Manual (this document)

2.2 Assembling the Stand

1. Carefully place the monitor panel face down on a soft, clean surface to prevent scratches.
2. Attach the stand neck to the monitor panel using the provided screws.
3. Connect the stand base to the stand neck and secure it with the thumb screw.



Figure 2.2.1: Front view of the GIGABYTE M27Q Advanced Gaming Monitor with stand.

2.3 Connecting the Monitor

Connect the monitor to your computer or other devices using the appropriate cables.

1. **Power:** Connect the power cable to the monitor and then to a power outlet.
2. **Video Input:** Connect one end of an HDMI, DisplayPort, or USB Type-C cable to the corresponding port on the monitor and the other end to your device.
3. **USB Upstream (for KVM/USB Hub):** Connect the USB 3.2 Upstream cable from the monitor to your primary computer to enable the built-in USB hub and KVM functionality.
4. **Peripherals:** Connect your keyboard, mouse, and other USB devices to the USB 3.2 Downstream ports on the monitor.
5. **Audio:** Connect headphones or external speakers to the Earphone Jack if desired.

I/O Ports

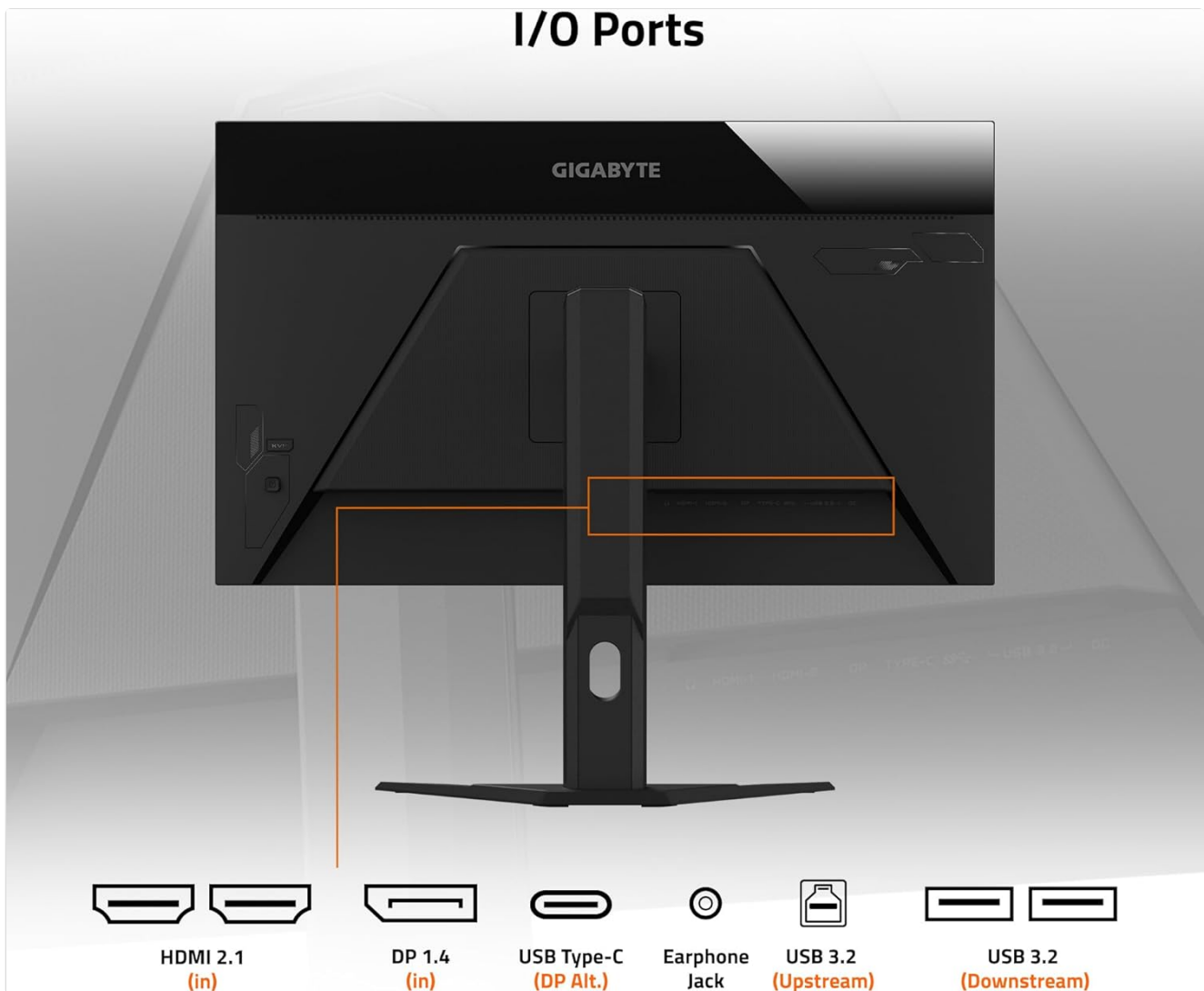


Figure 2.3.1: Rear view showing the I/O ports including HDMI, DisplayPort, USB Type-C, USB 3.2, and Earphone Jack.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

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

3.2 On-Screen Display (OSD) Menu

The OSD menu allows you to adjust various monitor settings. Use the joystick/buttons on the monitor to navigate and select options.

- **Picture:** Adjust brightness, contrast, sharpness, and color temperature.
- **Gaming:** Configure refresh rate, response time (MPRT), FreeSync, and other gaming-specific features.
- **Input:** Manually select the video input source (HDMI, DisplayPort, USB Type-C).
- **System:** General settings such as language, OSD timeout, and factory reset.

3.3 KVM Functionality

The integrated KVM (Keyboard, Video, Mouse) switch allows you to control multiple devices (e.g., a desktop PC and a laptop) using a single set of keyboard, mouse, and the monitor itself. To use KVM:

1. Connect your primary device via DisplayPort or HDMI and the USB Upstream cable.
2. Connect your secondary device via USB Type-C (which carries video, data, and power).

3. Connect your keyboard and mouse to the USB Downstream ports on the monitor.
4. Use the dedicated KVM switch button on the monitor to seamlessly switch control between the connected devices.



Figure 3.3.1: Diagram illustrating the Type-C KVM setup, allowing control of multiple devices with one set of peripherals.

3.4 Adjusting Display Settings

For optimal performance, ensure your operating system's display settings are configured correctly:

- **Resolution:** Set to 2560x1440 (QHD).
- **Refresh Rate:** Set to 180Hz for the smoothest experience.
- **AMD FreeSync:** Enable FreeSync in your graphics card control panel for tear-free gaming.

1ms and 180Hz

Unlock maximum frame rate potential



Figure 3.4.1: Visual comparison demonstrating the benefit of 1ms response time and 180Hz refresh rate for smoother motion.

4. MAINTENANCE

4.1 Cleaning the Monitor

To clean the monitor screen and casing:

- Turn off the monitor and unplug the power cord.
- Use a soft, lint-free cloth lightly dampened with water or a mild, non-abrasive screen cleaner.
- Wipe the screen gently. Avoid applying excessive pressure.
- Do not use alcohol, ammonia, or abrasive cleaners, as these can damage the screen surface.

4.2 General Care

- Avoid placing heavy objects on the monitor or its cables.
- Do not expose the monitor to direct sunlight, excessive heat, or extreme cold.
- Ensure adequate ventilation around the monitor to prevent overheating.

5. TROUBLESHOOTING

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

Problem	Possible Solution
No image on screen	Check power connections. Ensure video cable is securely connected to both monitor and device. Select correct input source via OSD.
Image is blurry or distorted	Ensure display resolution is set to 2560x1440. Check video cable for damage. Perform OSD factory reset.
KVM not switching	Verify USB Upstream cable is connected to the primary device. Ensure USB Type-C is connected to the secondary device. Press the KVM switch button firmly.
Flickering or tearing during gaming	Ensure AMD FreeSync is enabled in both the monitor OSD and your graphics card settings. Update graphics drivers.
Dead pixels or backlight bleed	While some minor backlight bleed or dead pixels are inherent to IPS technology, if severe, contact GIGABYTE support for assistance.

6. SPECIFICATIONS

Feature	Detail
Screen Size	27 Inches
Panel Type	SS IPS
Resolution	2560x1440 (QHD)
Refresh Rate	180Hz
Response Time	1ms MPRT
Color Gamut	95% DCI-P3
HDR Support	VESA DisplayHDR 400
Adaptive Sync	AMD FreeSync Premium
Connectivity	2x HDMI 2.0, 1x DisplayPort 1.4, 1x USB Type-C, 2x USB 3.2 Downstream, 1x USB 3.2 Upstream, 1x Earphone Jack
KVM	Yes
Adjustability	Height, Tilt
VESA Mount	100x100mm
Dimensions (LxWxH)	7.6 x 24.2 x 21.1 inches
Weight	17.51 pounds

7. WARRANTY AND SUPPORT

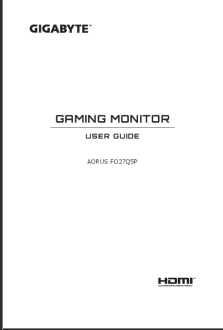
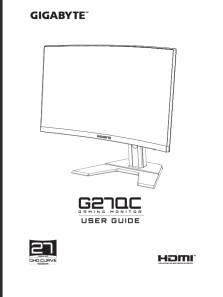
7.1 Warranty Information

Your GIGABYTE M27Q Advanced Gaming Monitor is covered by a manufacturer's limited warranty. Please refer to the warranty card included with your product or visit the official GIGABYTE website for detailed warranty terms and conditions specific to your region.

7.2 Technical Support

For technical assistance, product inquiries, or service requests, please contact GIGABYTE customer support through their official website or the contact information provided in your product documentation. Have your model number (M27QA-US) and serial number ready when contacting support.

Related Documents - M27QA-US

	<p>GIGABYTE M27QA / M27QA ICE Gaming Monitor User Guide</p> <p>Comprehensive user guide for the GIGABYTE M27QA and M27QA ICE gaming monitors, covering setup, operations, features, specifications, and safety information.</p>
	<p>GIGABYTE AORUS FO27Q5P Gaming Monitor User Guide</p> <p>Comprehensive user guide for the GIGABYTE AORUS FO27Q5P gaming monitor, covering setup, features, operations, specifications, troubleshooting, and safety information.</p>
	<p>GIGABYTE G34WQCP Gaming Monitor User Guide - Setup, Features, and Specifications</p> <p>Comprehensive user guide for the GIGABYTE G34WQCP 34-inch gaming monitor. Learn about setup, features, operations, troubleshooting, specifications, and safety information.</p>
	<p>GIGABYTE G27QC 27-inch QHD Curved Gaming Monitor User Guide</p> <p>Official user guide for the GIGABYTE G27QC 27-inch QHD curved gaming monitor. Learn about setup, features, operations, safety precautions, and specifications for an immersive gaming experience.</p>
	<p>GIGABYTE G27Q Gaming Monitor User Guide</p> <p>Comprehensive user guide for the GIGABYTE G27Q 27-inch QHD gaming monitor, covering setup, operations, specifications, and troubleshooting.</p>

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