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Cooler Master GP27Q

Cooler Master Tempest GP27Q 27-inch 2K QHD 165Hz MiniLED IPS Gaming Monitor User Manual

1. Introduction

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Cooler Master Tempest GP27Q 27-inch 2K QHD 165Hz MiniLED IPS Gaming Monitor. Please read this manual thoroughly before using the product to ensure proper functionality and to maximize your user experience.

2. Package Contents

Verify that all items listed below are present in your product packaging:

- Tempest GP27-FQS Widescreen Gaming LCD Monitor
- AC Power Cord
- DisplayPort Cable (may vary by region)
- HDMI Cable (may vary by region)
- USB-C Cable (may vary by region)
- USB-B to USB-A Cable (for KVM functionality)
- Monitor Stand (Base and Neck)
- Quick Start Guide

3. Setup

3.1 Monitor Assembly

1. Carefully remove the monitor and stand components from the packaging.
2. Attach the stand neck to the monitor panel. Ensure it clicks securely into place or is fastened with screws if provided.
3. Attach the stand base to the stand neck. Tighten the thumb screw or screws at the bottom of the base.
4. Place the assembled monitor on a stable, flat surface.



Image: Front view of the Cooler Master Tempest GP27Q monitor with its stand assembled.

3.2 Connecting Cables

1. **Power Connection:** Connect the AC power cord to the monitor's power input, then plug the other end into a power outlet.
2. **Video Connection:** Connect one end of a DisplayPort, HDMI, or USB-C cable to the corresponding port on your computer's graphics card. Connect the other end to the matching input port on the monitor. For optimal performance, DisplayPort 1.4 or USB-C is recommended for 165Hz at 2K QHD resolution.
3. **USB Hub/KVM Connection (Optional):** To utilize the monitor's USB hub and KVM switch functionality, connect the provided USB-B to USB-A cable from your computer to the monitor's USB upstream port. If using USB-C for video, the USB data can be transmitted over the same cable.



Image: Rear view of the monitor displaying the power input, DisplayPort, HDMI, and USB-C ports.

3.3 Initial Power On

Press the power button located on the monitor. The power indicator light will illuminate, and the display will turn on. If no signal is detected, ensure your computer is powered on and the correct input source is selected on the monitor.

4. Operating Instructions

4.1 Power On/Off

Press the power button to turn the monitor on or off. The power indicator LED will show the monitor's status.

4.2 On-Screen Display (OSD) Navigation

The monitor features a joystick control located on the rear or bottom of the panel for navigating the OSD menu. Press the joystick to open the OSD, then move it up/down/left/right to select and adjust settings. Press again to confirm selections.

4.3 Input Selection

Access the OSD menu and navigate to the 'Input' section to manually select between DisplayPort, HDMI 1, HDMI 2, or USB-C inputs. The monitor can also auto-detect an active input.

4.4 Key Features and Settings

- **2K QHD Resolution (2560 x 1440):** This monitor provides a high-resolution display for sharp images and text, suitable for both productivity and gaming.



Image: A monitor screen showcasing the clarity of 2K QHD resolution with a detailed image.

- **165Hz Refresh Rate & 1ms (MPRT)/2ms (GTG) Response Time:** For smooth motion and reduced input lag, especially beneficial in fast-paced applications and gaming. These settings can typically be configured in your operating system's display settings.



Image: Visual representation of Ultra-Speed IPS technology reducing motion blur and smearing.

- **Adaptive Sync (FreeSync/G-Sync Compatible):** Synchronizes the monitor's refresh rate with your GPU's frame output to eliminate screen tearing and stuttering. Enable this feature in the OSD and your graphics card control panel.



Image: A graphic illustrating the effect of Adaptive Sync on gameplay, showing a smooth image when enabled.

- **MiniLED Backlight with Local Dimming & HDR1000:** The MiniLED backlight with local dimming zones provides enhanced contrast, deeper blacks, and brighter highlights, supporting HDR1000 content for a more

dynamic visual experience.



Image: Diagram showing the difference between standard LED, full array dimming, and MiniLED with local dimming zones.

- **Quantum Dot Technology:** Delivers a wide color gamut (Adobe RGB 99%, DCI-P3 98%) for vibrant and accurate color reproduction.

Image: Exploded view of a display panel highlighting the Quantum Dot film layer for enhanced color.

- **Low Blue Light Mode:** Reduces blue light emissions to minimize eye strain during extended use. This can be activated via the OSD menu.



Image: Two monitors side-by-side, one with Low Blue Light mode enabled and the other without, showing the difference in color temperature.

- **Built-in KVM Switch:** Allows you to control multiple devices (e.g., a desktop and a laptop) connected to the monitor using a single keyboard and mouse. Switch between devices via the OSD.



Image: An illustration demonstrating how the KVM switch connects a single keyboard and mouse to control two different devices (PC and laptop) through the monitor.

5. Maintenance

5.1 Cleaning the Monitor

- Always power off the monitor and unplug the power cord before cleaning.
- Use a soft, lint-free cloth lightly dampened with water or a mild, non-abrasive screen cleaner.
- Do not spray cleaner directly onto the screen. Apply it to the cloth first.
- Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the screen or casing.

5.2 Storage

If storing the monitor for an extended period, ensure it is powered off, unplugged, and stored in a cool, dry place away from direct sunlight and extreme temperatures. Use the original packaging for best protection.

6. Troubleshooting

This section addresses common issues you might encounter with your monitor. If the problem persists, please contact Cooler Master support.

- **No Display/Black Screen:**
  - Ensure the power cord is securely connected to both the monitor and the power outlet.
  - Verify that the video cable (DisplayPort, HDMI, USB-C) is firmly connected to both the monitor and your computer.
  - Check if your computer is powered on and not in sleep mode.
  - Use the OSD to manually select the correct input source.
- **Flickering or Unstable Image:**
  - Ensure the video cable is securely connected. Try a different cable if available.
  - Adjust the refresh rate in your computer's display settings.
  - Disable Adaptive Sync temporarily to see if the issue resolves.
- **Color Issues (e.g., incorrect colors, banding):**
  - Reset monitor color settings to factory defaults via the OSD.
  - Ensure your graphics card drivers are up to date.
  - If experiencing color banding with HDR and 165Hz, try reducing the refresh rate to 144Hz as a temporary measure.

- **Monitor Does Not Wake from Sleep/Displays Black or Purple Image:**
  - Power cycle the monitor (turn off, unplug, wait 30 seconds, plug back in, turn on).
  - Ensure your computer's power management settings are configured correctly.
- **Dead Pixels or Uneven Backlight:**
  - While some minor backlight unevenness is common with IPS panels, significant issues may indicate a defect. Refer to Cooler Master's pixel policy for warranty coverage.
- **OSD Navigation is Slow or Unresponsive:**
  - Power cycle the monitor.
  - Ensure no other buttons are being pressed simultaneously.

7. Specifications

Detailed technical specifications for the Cooler Master Tempest GP27Q monitor:

Feature	Specification
Brand	Cooler Master
Model Number	CMI-GP27-FQS-US
Screen Size	27 Inches
Panel Type	IPS (Ultra-Speed IPS)
Resolution	2560 x 1440 (QHD)
Max Refresh Rate	165Hz
Response Time	1ms (MPRT) / 2ms (GTG)
HDR Support	HDR1000
Backlight Technology	MiniLED with Local Dimming
Color Gamut	Adobe RGB 99%, DCI-P3 98% (Quantum Dot)
Adaptive Sync	Yes (FreeSync/G-Sync Compatible)
Connectivity	1x DisplayPort 1.4, 2x HDMI 2.0, 1x USB-C (with DP Alt Mode & Power Delivery)
USB Hub	Yes (with KVM Switch)
Item Weight	20.2 pounds
Product Dimensions (LxWxH)	10.78 x 24.32 x 20.7 inches
Color	Black



Image: Technical drawing showing the physical dimensions of the Cooler Master Tempest GP27Q monitor.

8. Warranty Information

Cooler Master products are covered by a limited warranty. Specific warranty terms and conditions, including duration and coverage details, are typically provided with your product documentation or can be found on the official Cooler Master website. Please retain your proof of purchase for warranty claims.

9. Support

For further assistance, technical support, or to download the latest drivers and firmware updates, please visit the official Cooler Master support website:

www.coolermaster.com

You may also find helpful resources and community forums on their website.

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