

ASUS 90LM06A3-B01171

ASUS VY249HGR Eye Care Gaming Monitor User Manual

Model: VY249HGR (90LM06A3-B01171)

1. INTRODUCTION

The ASUS VY249HGR Eye Care Gaming Monitor is designed to provide exceptional visual comfort and performance. Featuring a 23.8-inch Full HD (1920 x 1080) IPS panel, it delivers vibrant images and wide viewing angles. With a 120Hz (OC) refresh rate, 1ms (MPRT) response time, and Adaptive Sync support, this monitor ensures smooth and consistent visuals for both gaming and everyday tasks. Integrated ASUS Eye Care Plus technology, including Blue Light Filter, Flicker Free, Color Augmentation, and Rest Reminder modes, helps reduce eye strain during extended use.

2. SAFETY INFORMATION

Please read all safety instructions carefully before using the monitor. Improper use may result in electric shock, fire, or damage to the device. For detailed safety guidelines, refer to the official Safety Information PDF document provided with your product or available on the ASUS support website.

- Ensure the monitor is placed on a stable surface to prevent falling.
- Use only the power adapter and cables supplied by ASUS.
- Do not expose the monitor to rain or moisture.
- Avoid blocking ventilation openings to prevent overheating.
- Disconnect the power cable before cleaning the monitor.

3. PACKAGE CONTENTS

Verify that all items are present in your product package. If any item is missing or damaged, contact your retailer.

What's in the box & Dimension

- Ⓞ Power cord
- Ⓞ HDMI cable (optional)
- Ⓞ Warranty card
- Ⓞ Quick start guide
- Ⓞ L-shaped screwdriver (optional)



Figure 3.1: Monitor dimensions and included accessories.

- ASUS VY249HGR Monitor
- Power Cord
- HDMI Cable (optional, may vary by region)
- Warranty Card
- Quick Start Guide
- L-shaped Screwdriver (optional, for stand assembly)

4. SETUP

4.1 Assembling the Monitor Stand

1. Place the monitor panel face down on a soft, clean cloth to prevent scratches.
2. Attach the stand base to the stand neck, ensuring it clicks into place or is secured with the provided screw.
3. Connect the assembled stand to the back of the monitor panel. Ensure it is firmly attached.

4.2 Connecting the Monitor

1. **Power Connection:** Connect the power cord to the monitor's power input, then plug the other end into a power outlet.
2. **Video Connection:** Connect one end of an HDMI or VGA cable to the corresponding port on your computer's

graphics card. Connect the other end to the HDMI or VGA input port on the monitor.

3. **Audio Connection (Optional):** If your computer has an audio output and you wish to use external speakers or headphones with the monitor's audio pass-through, connect an audio cable from your computer to the monitor's audio input, and then connect your audio device to the monitor's audio output.

4.3 Initial Power-On

1. Press the power button on the monitor to turn it on.
2. Turn on your computer. The monitor should automatically detect the input signal.
3. If no image appears, ensure all cables are securely connected and the correct input source is selected on the monitor (via the OSD menu).

5. OPERATING THE MONITOR

5.1 Key Features

- **Full HD IPS Panel:** Enjoy wide 178-degree viewing angles and consistent color reproduction.



Figure 5.1: Wide viewing angles and frameless design for an immersive experience.

- **120Hz (OC) Refresh Rate & 1ms (MPRT) Response Time:** Experience fluid visuals and reduced motion blur.

Fluid viewing experience with 120Hz (OC)* Smooth Motion

Eliminate screen tearing and choppy frame rates to give you seamless visuals and smooth gameplay



*OC function can only be activated during Game mode

Figure 5.2: Visual comparison of 60Hz versus 120Hz refresh rates.

- **Adaptive Sync:** Eliminates screen tearing and choppy frame rates for seamless gameplay.
- **ASUS Eye Care Plus Technology:**
 - **Flicker Free:** Reduces screen flickering to minimize eye strain.
 - **Blue Light Filter:** Protects your eyes from harmful blue light emissions.

Eye Care Plus technology

TÜV Rheinland-certified Adjustable Blue Light Filter and Flicker Free technology



Figure 5.3: Eye Care Plus features: Flicker Free and Blue Light Filter. TÜV Rheinland Certified

- **Color Augmentation Mode:** Helps users with color vision deficiency distinguish colors more easily.
- **Rest Reminder Mode:** Prompts users to take breaks to manage screen time.

Eye Care Plus technology

Color Augmentation mode and Rest Reminder mode



Figure 5.4: Eye Care Plus features: Color Augmentation and Rest Reminder.

- **ASUS GamePlus Technology:** Provides in-game enhancements like crosshairs, timers, and an FPS counter.

Technologie GamePlus exclusive à ASUS



Figure 5.5: ASUS GamePlus features for an enhanced gaming experience.

- **ASUS DisplayWidget Center:** Software for easy monitor settings adjustment via an intuitive interface.

5.2 On-Screen Display (OSD) Menu

The OSD menu allows you to adjust various monitor settings. Use the buttons located on the bottom right or back of the monitor to navigate and select options.

- **Power Button:** Turns the monitor on or off.
- **Menu Button:** Opens the OSD menu.
- **Navigation Buttons:** Used to move through menu options and adjust values.
- **Select Button:** Confirms a selection.

Common OSD settings include Brightness, Contrast, Color Temperature, Input Select, GameVisual modes, and Eye Care Plus settings.

6. MAINTENANCE

6.1 Cleaning the Monitor

- Always unplug the monitor from the power outlet before cleaning.

- Use a soft, lint-free cloth lightly dampened with water or a mild, non-abrasive cleaner specifically designed for screens.
- Do not spray liquid directly onto the screen or monitor casing.
- Avoid using alcohol-based cleaners, ammonia, or abrasive materials, as these can damage the screen surface.

6.2 Anti-bacterial Treatment

The monitor features an exclusive long-lasting anti-bacterial treatment on its bezels and hotkeys, preventing the growth of bacteria and fungi. Regular cleaning as described above is sufficient to maintain its effectiveness.

Traitement antibactérien

Soumis aux tests d'activité et d'efficacité antimicrobiennes ISO 22196



Antibacterial

Figure 6.1: Demonstration of the anti-bacterial treatment on the monitor surface.

7. TROUBLESHOOTING

If you encounter issues with your monitor, refer to the following common troubleshooting steps:

Problem	Possible Solution
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Problem	Possible Solution
No image on screen	<p>Ensure the power cable is securely connected.</p> <p>Verify the video cable (HDMI/VGA) is properly connected to both the monitor and the computer.</p> <p>Check if the correct input source is selected in the OSD menu.</p> <p>Restart your computer.</p>
Image is blurry or distorted	<p>Adjust the resolution and refresh rate settings on your computer to match the monitor's native resolution (1920x1080) and desired refresh rate (e.g., 120Hz).</p> <p>Check the video cable for damage or loose connections.</p> <p>Perform an auto-adjustment via the OSD menu (for VGA connections).</p>
Screen flickering	<p>Ensure Flicker Free technology is enabled in the OSD menu.</p> <p>Check for external interference from other electronic devices.</p> <p>Update your graphics card drivers.</p>
Colors appear incorrect	<p>Adjust color settings (Color Temperature, Saturation) in the OSD menu.</p> <p>Disable or adjust the Blue Light Filter if it's causing a yellow tint.</p> <p>Calibrate your monitor using your operating system's display settings.</p>

8. SPECIFICATIONS

Below are the technical specifications for the ASUS VY249HGR monitor:

- **Brand:** ASUS
- **Model Number:** 90LM06A3-B01171
- **Screen Size:** 24 Inches (23.8 inches actual)
- **Panel Type:** IPS
- **Resolution:** FHD 1080p (1920 x 1080 Pixels)
- **Aspect Ratio:** 16:9
- **Refresh Rate:** 120 Hz (Overclockable)
- **Response Time:** 1 Millisecond (MPRT)
- **Contrast Ratio:** 1000:1
- **Brightness:** 250 Candelas per square meter
- **Viewing Angle:** 178 Degrees (Horizontal/Vertical)
- **Screen Surface:** Anti-glare
- **Color Gamut Value:** 0.72 (sRGB)
- **Connectivity:** 1x HDMI, 1x VGA
- **Adaptive Sync:** G-Sync Compatible
- **Special Features:** Blue Light Filter, Frameless Design, Flicker Free, Eye Care Plus (Color Augmentation, Rest Reminder)
- **Dimensions (D x W x H):** 18.5 cm x 54.1 cm x 39.5 cm (7.28" x 21.3" x 15.55")
- **Item Weight:** 3.4 Kilograms
- **Power Voltage:** 28 Volts
- **Country of Origin:** China

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This ASUS monitor comes with a **3-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, refer to the warranty card included in your package or visit the official ASUS support website.

9.2 Customer Support

For technical assistance, product inquiries, or warranty service, please contact ASUS customer support through their official website or the contact information provided in your product documentation. You can find the latest drivers, FAQs, and support resources on the ASUS support portal.

ASUS Official Website: <https://www.asus.com/support/>