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acer KG251Q M3biip

Acer Nitro KG251Q M3biip Gaming Monitor User Manual

Model: KG251Q M3biip

1. Introduction

This manual provides essential information for setting up, operating, and maintaining your Acer Nitro KG251Q M3biip gaming monitor. The KG251Q M3biip is a 24.5-inch Full HD (1920 x 1080) IPS monitor designed for gaming, featuring a 180Hz refresh rate, 1ms Visual Response Boost (VRB), AMD FreeSync Premium technology, and HDR10 support. Its zero-frame design allows for seamless multi-monitor setups.



Figure 1.1: Front view of the Acer Nitro KG251Q M3biip Gaming Monitor.

2. Setup Instructions

2.1 Unpacking the Monitor

Carefully remove all components from the packaging. Ensure all items listed in the packing list are present. Retain the packaging materials for future transport or service needs.

2.2 Assembling the Stand

Attach the stand base to the stand neck, then attach the assembled stand to the back of the monitor. Ensure all screws are securely tightened. The monitor also supports VESA mounting (100 x 100mm) for alternative installation.

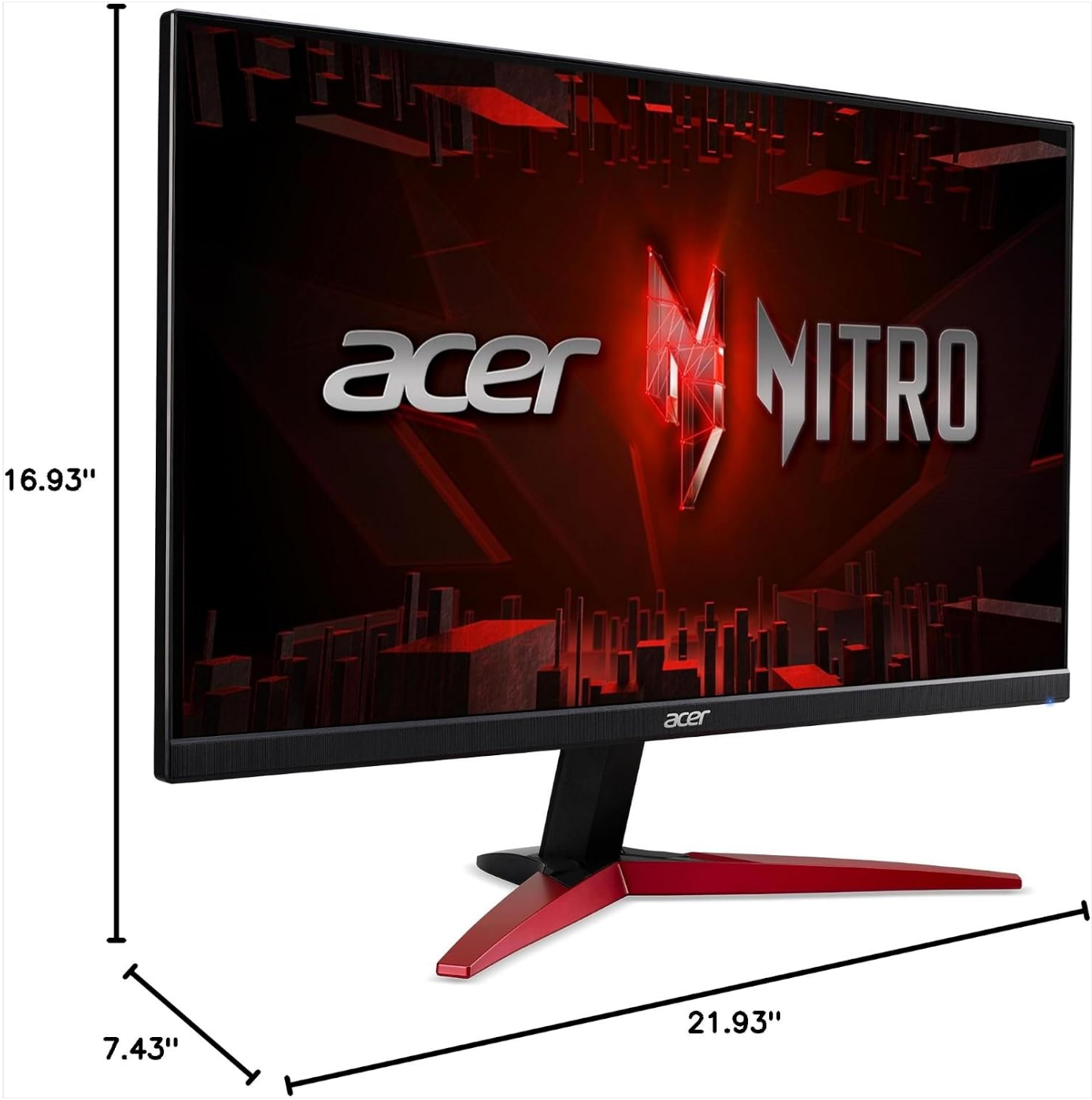


Figure 2.1: Monitor dimensions for placement and VESA mounting reference.

2.3 Connecting Cables

Connect the power cable to the monitor and a power outlet. Use the provided HDMI cable or a DisplayPort cable to connect the monitor to your computer's graphics card. The monitor features 1 x DisplayPort 1.2 and 2 x HDMI 2.0 ports.





Figure 2.2: Rear view illustrating available connectivity ports.

2.4 Initial Power-On

Press the power button located on the monitor to turn it on. Ensure your computer is also powered on. The monitor should automatically detect the input signal. If no image appears, verify cable connections and input source selection.

3. Operating Instructions

3.1 On-Screen Display (OSD) Menu Navigation

The OSD menu allows you to adjust various monitor settings. Use the buttons on the back or bottom of the monitor to navigate the menu. Typically, one button opens the menu, directional buttons navigate, and another button confirms selections.

3.2 Adjusting Display Settings

- **Refresh Rate:** The monitor supports up to 180Hz. Ensure your graphics card settings are configured to utilize this refresh rate for optimal performance.
- **AMD FreeSync Premium:** This technology synchronizes the monitor's refresh rate with your GPU's frame rate to eliminate screen tearing and stuttering. Enable FreeSync Premium in the OSD menu and your graphics card control panel.
- **1ms Visual Response Boost (VRB):** VRB reduces motion blur in fast-paced scenes. This feature can be enabled via the OSD menu. Note that enabling VRB may affect brightness.
- **HDR10 Support:** For enhanced contrast and color, ensure HDR is enabled in your operating system display settings and the monitor's OSD menu when viewing HDR content.
- **Brightness, Contrast, Color:** Adjust these settings in the OSD menu to suit your viewing preferences. The monitor offers 99% sRGB color gamut for accurate color reproduction.



Figure 3.1: Visual comparison of Full HD (1080p) resolution details.

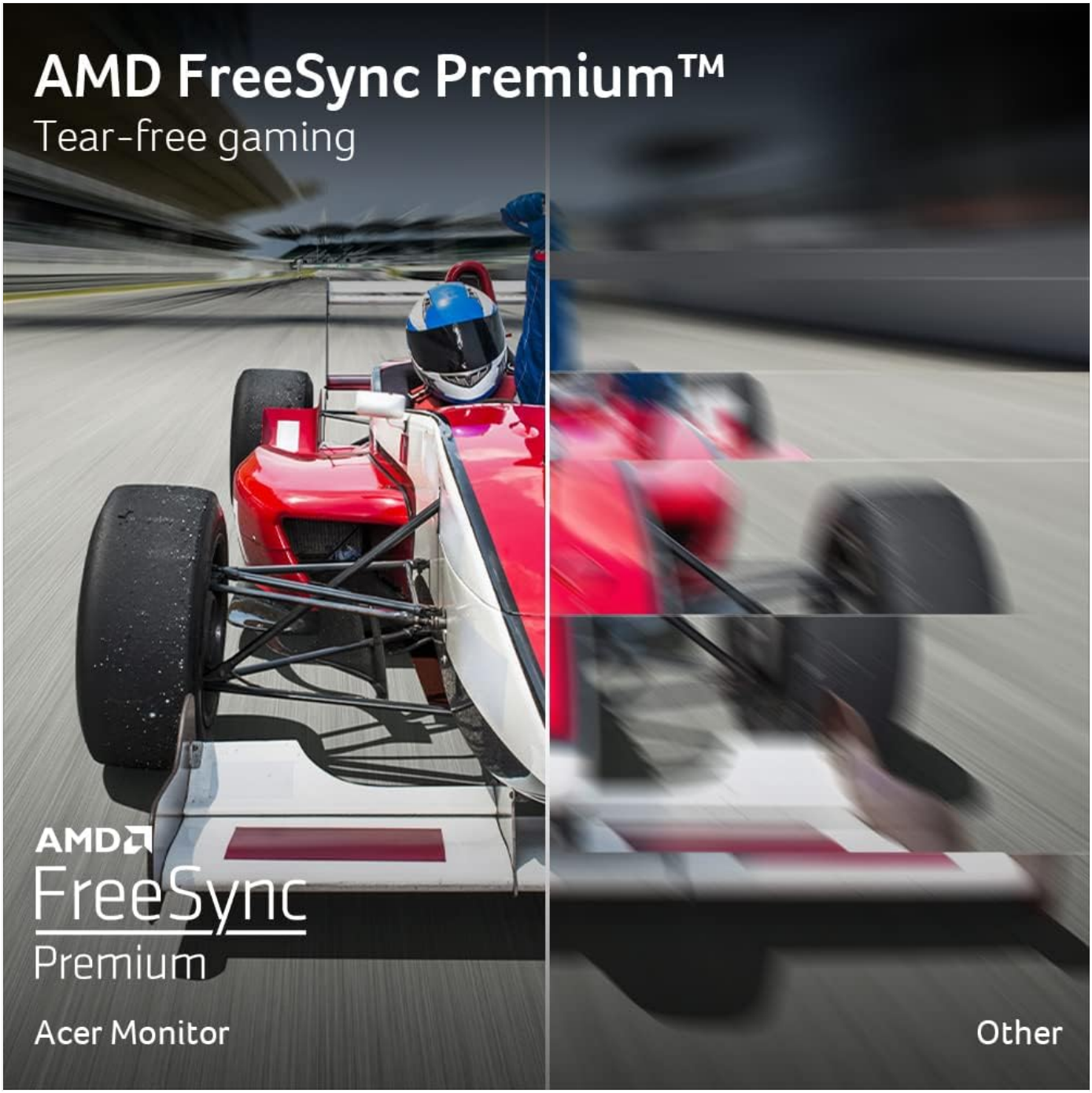


Figure 3.2: Demonstration of AMD FreeSync Premium for tear-free gaming.

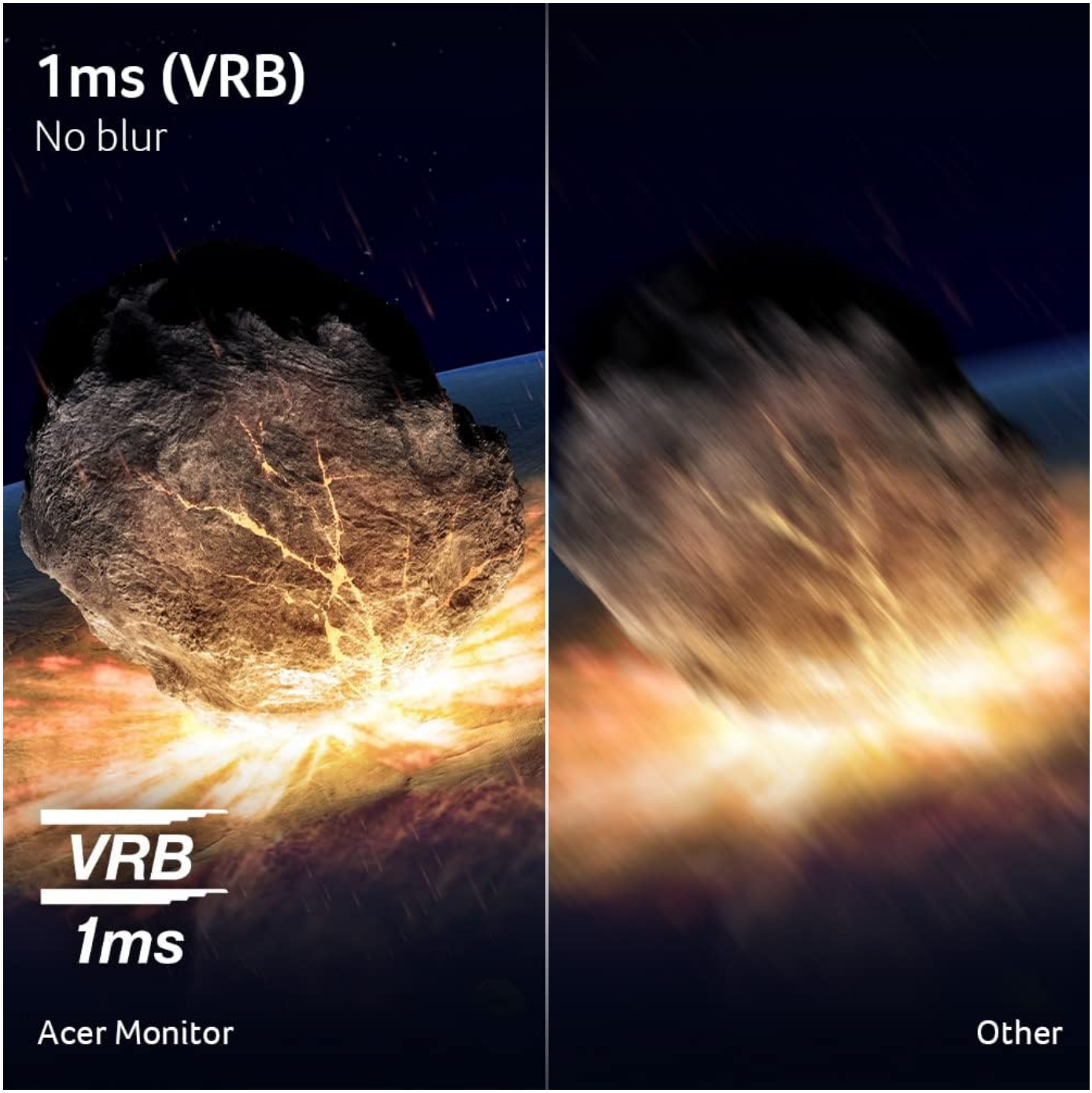


Figure 3.3: Visual difference between 180Hz and 60Hz refresh rates.



Figure 3.4: Effect of 1ms VRB in eliminating motion blur.



Figure 3.5: Visual representation of HDR10 support for enhanced contrasts.

4. Maintenance

4.1 Cleaning the Monitor

To clean the screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with water or a specialized screen cleaner. Avoid using harsh chemicals, abrasive cleaners, or spraying liquids directly onto the screen.

4.2 General Care

- Keep the monitor away from direct sunlight, heat sources, and excessive dust.
- Ensure adequate ventilation around the monitor to prevent overheating.
- Avoid placing heavy objects on the monitor or its cables.
- Unplug the monitor from the power outlet during lightning storms or when unused for extended periods.

5. Troubleshooting

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

- **No image on screen:**
  - Ensure the power cable is securely connected and the monitor is powered on.
  - Verify that the video cable (HDMI or DisplayPort) is properly connected to both the monitor and your computer.
  - Check if the correct input source is selected in the monitor's OSD menu.
  - Test with a different video cable or port if available.
- **Flickering or distorted image:**
  - Ensure the video cable is securely connected.
  - Adjust the refresh rate in your computer's display settings.
  - Disable or enable AMD FreeSync Premium in the OSD menu and graphics card settings to see if it resolves the issue.
  - Update your graphics card drivers.
- **Dead pixels:**
  - A small number of permanently lit or unlit pixels is a characteristic of LCD/LED technology and is generally not considered a defect. Refer to Acer's pixel policy for more information.
- **Monitor not recognized by computer:**
  - Restart your computer.
  - Ensure the video cable is connected before powering on the computer.
  - Update your graphics card drivers.

For further assistance, please contact Acer customer support.

6. Specifications

Brand	Acer
Model Name	Nitro KG251Q M3biip
Screen Size	24.5 Inches
Resolution	Full HD (1920 x 1080)
Display Technology	IPS LCD
Refresh Rate	180 Hz
Response Time	1ms (VRB)
Adaptive Sync	AMD FreeSync Premium
Color Gamut	99% sRGB
HDR Support	HDR10
Connectivity	1 x DisplayPort 1.2, 2 x HDMI 2.0

VESA Mounting	100 x 100mm
Ergonomic Tilt	-5° to 15°
Dimensions (D x W x H)	7.43"D x 21.93"W x 16.93"H
Weight	4.45 Kilograms

7. Warranty Information

The Acer Nitro KG251Q M3biip monitor comes with a**3-year full warranty** covering parts and labor. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included with your product or visit the official Acer support website.

8. Customer Support

For technical support, service inquiries, or additional product information, please visit the official Acer support website or contact their customer service department.

- **Acer Support Website:** www.acer.com/support
- Refer to your product packaging for regional contact numbers.

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