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MSI MPG 321URXW QD-OLED

MSI MPG 321URXW QD-OLED Monitor User Manual

Model: MPG 321URXW QD-OLED

Product Overview

The MSI MPG 321URXW QD-OLED gaming monitor is engineered for an immersive visual experience. Featuring a 32-inch 3840x2160 (UHD) next-generation QD-OLED panel, it delivers a high 240Hz refresh rate and an ultra-fast 0.03ms (GtG) response time. This monitor is VESA certified for ClearMR 13000 and DisplayHDR True Black 400, ensuring vivid images and reduced motion blur. Advanced OLED Care 2.0 technology is integrated to minimize the risk of OLED burn-in. For console users, it offers HDMI 2.1 ports with full 48Gbps bandwidth, supporting 120Hz, VRR (Variable Refresh Rate), and ALLM (Auto Low Latency Mode).

Key Features:

- **Fastest Response Time:** 0.03ms GtG response time and 240Hz refresh rate for fluid visuals.
- **Incredible HDR Visuals:** VESA DisplayHDR True Black 400 certification for stunning contrast and deep blacks.
- **QD Premium Color:** Ensures color accuracy with Delta E≤2.
- **Console Mode:** HDMI 2.1 with 48 Gbps bandwidth, supporting 4K@120Hz, VRR, and ALLM for console gaming.
- **3-Year Burn-In Warranty:** Comprehensive coverage for OLED burn-in concerns.



Figure 1: Front view of the MSI MPG 321URXW QD-OLED Monitor, showcasing its sleek design and vibrant display.

Setup

Package Contents:

Before beginning installation, please verify that all components are present in the package:

- MSI MPG 321URXW QD-OLED Monitor
- Power Cable
- HDMI Cable
- DisplayPort Cable
- USB-B to USB-A Cable
- Monitor Stand (Base and Neck)
- Screws for Stand Assembly
- User Manual / Quick Start Guide

Assembling the Stand:

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.
3. Connect the stand base to the neck using the provided screws. Tighten firmly to ensure stability.

4. Place the assembled monitor on a stable, flat surface.

Connecting the Monitor:

The monitor offers various connectivity options for your devices.



Figure 2: Diagram illustrating the various input and output ports on the MSI MPG 321URXW QD-OLED monitor, including USB Type-A, USB Type-B, DisplayPort 1.4a, HDMI 2.1, and Earphone Out.

- **Power Connection:** Connect the power cable to the monitor's power input and then to a power outlet.

- **Video Input:**
  - For PC: Connect a DisplayPort cable from your graphics card to the monitor's DisplayPort 1.4a input.
  - For PC/Console: Connect an HDMI 2.1 cable from your device to one of the monitor's HDMI 2.1 inputs.
  - For USB-C compatible devices: Connect a USB Type-C cable to the monitor's USB-C (DP Alt.) port. This port also supports up to 90W power delivery.
- **USB Hub:** Connect the USB Type-B cable from your PC to the monitor's USB Type-B upstream port to enable the monitor's USB Type-A downstream ports.
- **Audio Output:** Connect headphones or external speakers to the Earphone Out port.

VESA Mounting:

The monitor is VESA mountable (100x100mm) for alternative mounting solutions. Ensure you use VESA-compatible screws of appropriate length to avoid damaging the panel.

Operating the Monitor

Basic Operation:

- **Power On/Off:** Press the power button, usually located on the back or bottom of the monitor, to turn it on or off.
- **OSD Navigation:** Use the joystick or buttons on the monitor to navigate the On-Screen Display (OSD) menu.

Display Settings:

Adjust various display settings through the OSD menu to optimize your viewing experience.

- **Brightness/Contrast:** Adjust these settings to suit your environment and preference.
- **Color Temperature:** Select from preset modes or customize RGB values.
- **Picture Mode:** Choose from various modes (e.g., Gaming, Cinema, Standard, User) for different content types.
- **Input Source:** Manually select the active input source (HDMI 1, HDMI 2, DisplayPort, USB-C).

Gaming Features:

Leverage the monitor's advanced features for an enhanced gaming experience.

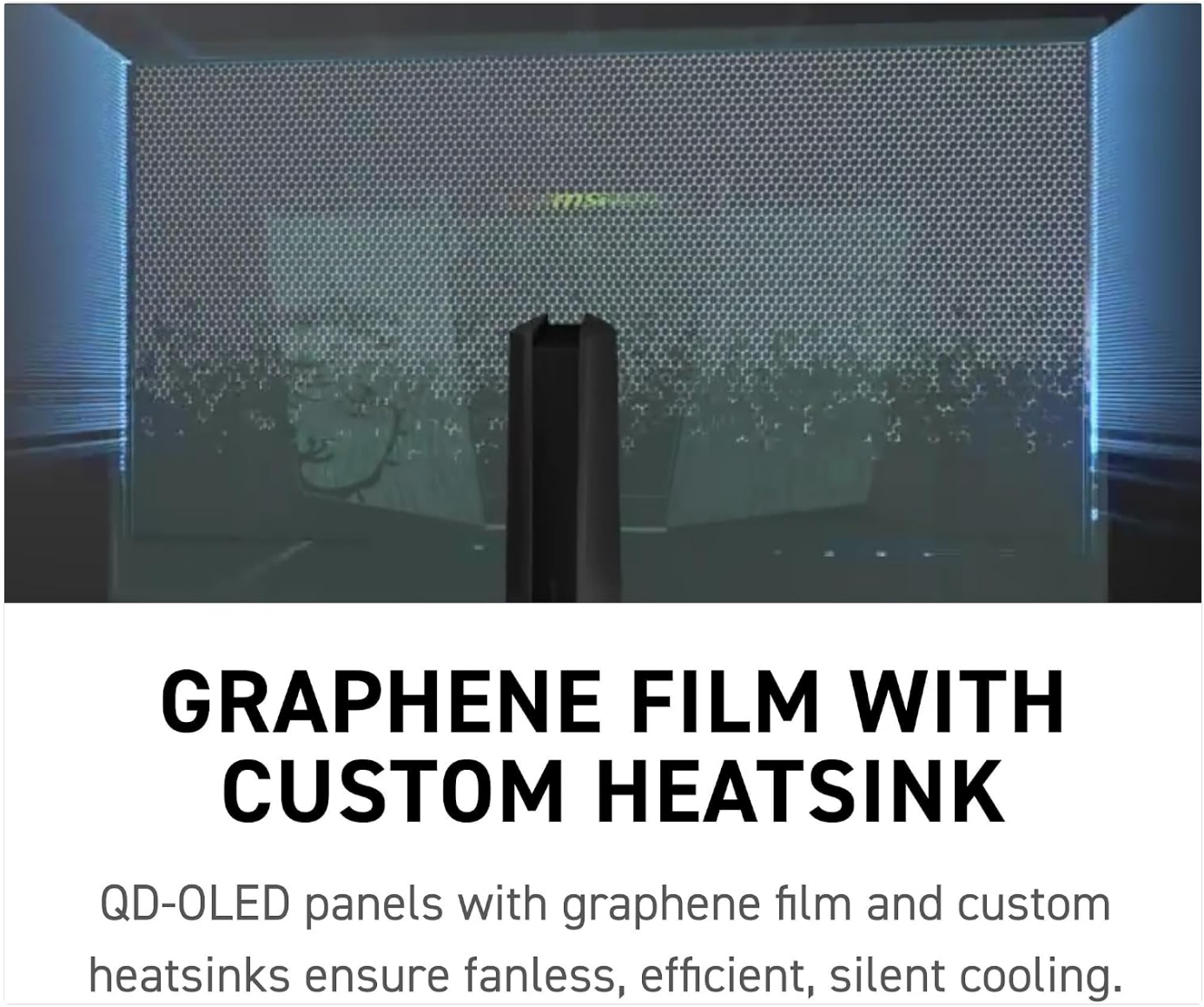


Figure 3: Visual comparison demonstrating the smoothness of a 240Hz refresh rate versus 60Hz on the MSI MPG 321URXW QD-OLED monitor, highlighting its 'Faster Than Ever' performance.

- **High Refresh Rate (240Hz) & Low Response Time (0.03ms GtG):** These specifications ensure extremely smooth motion and minimal ghosting, crucial for fast-paced games.
- **Adaptive Sync:** This technology synchronizes the monitor's refresh rate with your GPU's frame rate, eliminating screen tearing and stuttering for a fluid gaming experience.
- **Console Mode:** Optimizes settings for console gaming, providing full HDMI 2.1 bandwidth for 4K@120Hz, VRR, and ALLM support.

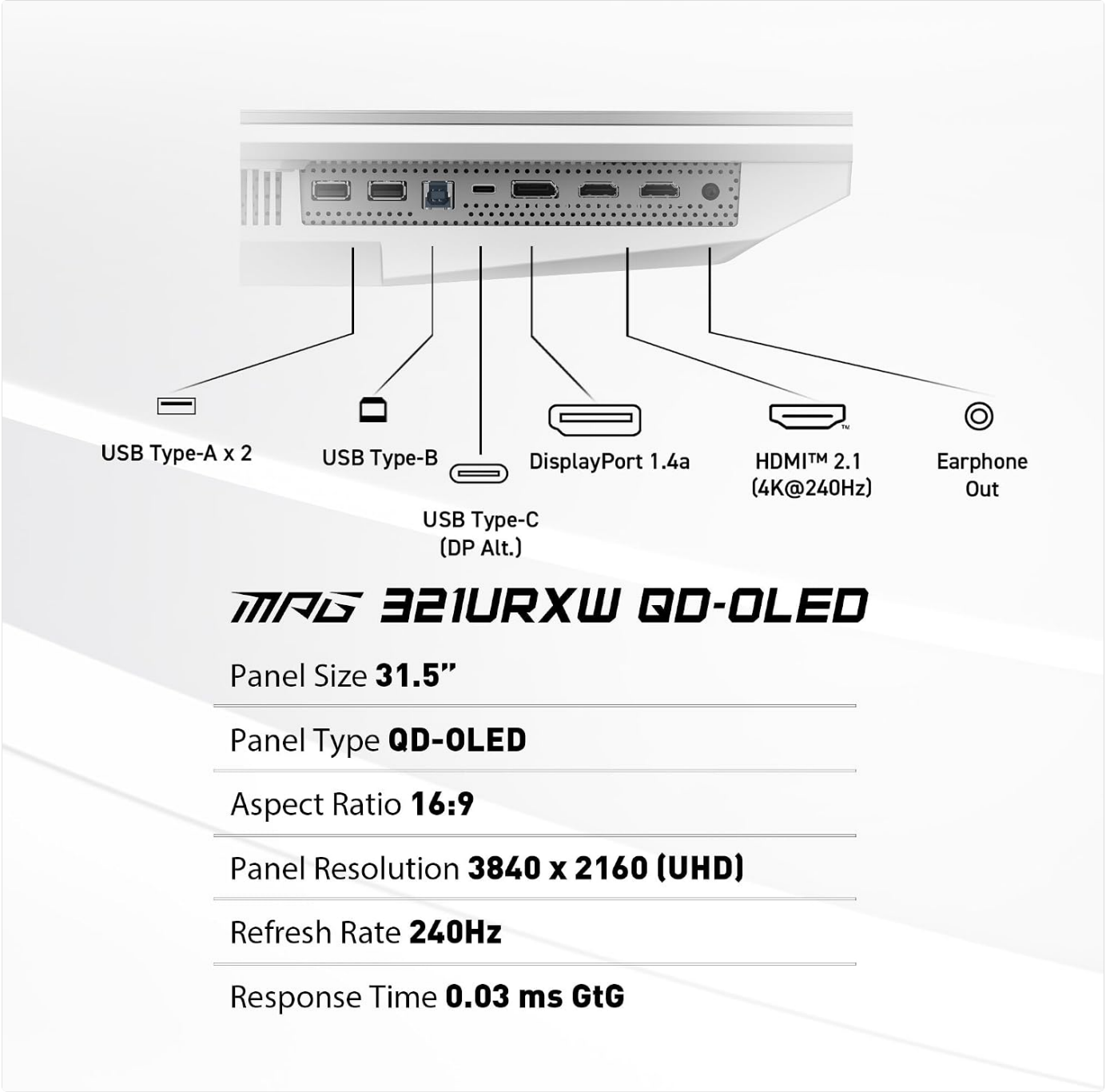


Figure 4: An image illustrating the concept of Adaptive Sync, showing how it prevents screen tearing by synchronizing the monitor's refresh rate with the GPU.

Visual Quality:

Experience superior visual fidelity with QD-OLED technology.



Figure 5: A comparison image demonstrating the superior black levels and contrast of QD-OLED technology compared to conventional LCDs, highlighting VESA Certified HDR.

- **QD-OLED Panel:** Delivers true blacks, vibrant colors, and wide viewing angles due to self-emissive pixels.
- **DisplayHDR True Black 400:** Provides exceptional contrast and detail in both bright and dark scenes.
- **ClearMR 13000:** Ensures clear pixel performance and reduces motion blur, especially in fast-moving content.

Maintenance

OLED Care 2.0:

The monitor features OLED Care 2.0, a suite of technologies designed to protect the OLED panel and prolong its lifespan by mitigating the risk of burn-in. These features operate automatically in the background.

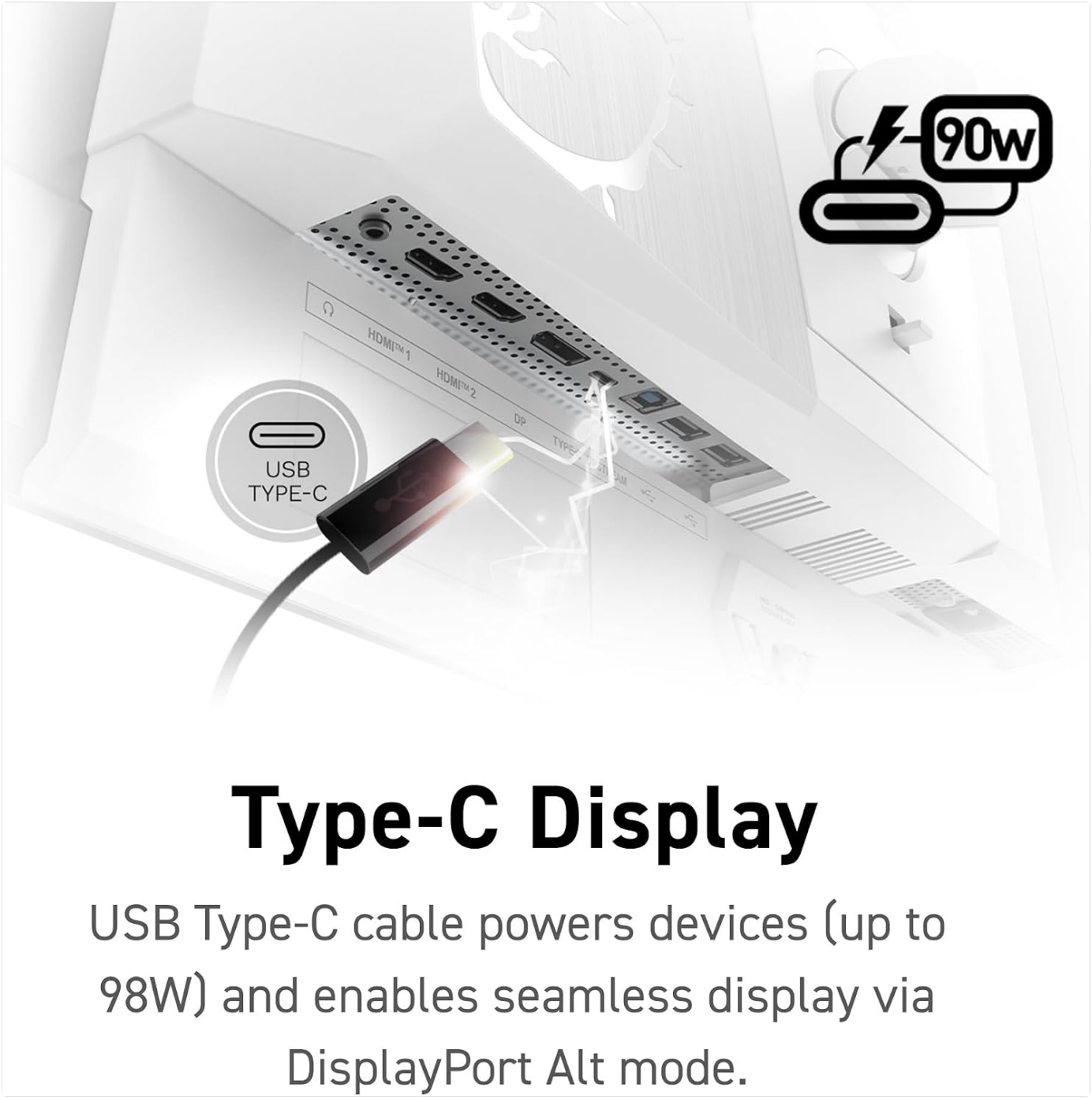


Figure 6: An illustrative graphic representing OLED Care 2.0, emphasizing its role in providing care services and reducing the chances of OLED screen burn-in.

- **Pixel Shift:** Periodically shifts the image by a few pixels to prevent static image retention.
- **Panel Protect:** Runs a compensation cycle after extended use to refresh pixels and prevent image persistence.
- **Static Logo Detection:** Automatically dims static elements like logos to reduce their impact on the panel.

Cooling System:

The monitor incorporates a graphene film with a custom heatsink for efficient and silent cooling, ensuring optimal performance and longevity without the need for active fans.



Figure 7: An image depicting the internal cooling solution, highlighting the graphene film and custom heatsink designed for fanless, efficient, and silent cooling of the QD-OLED panel.

Cleaning the Monitor:

- Always power off and unplug the monitor before cleaning.
- Use a soft, lint-free cloth lightly dampened with water or a non-abrasive screen cleaner.
- Do not spray liquid directly onto the screen.
- Avoid using harsh chemicals, alcohol, or abrasive materials.

Troubleshooting

If you encounter issues with your MSI MPG 321URXW QD-OLED monitor, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the power cable is securely connected to both the monitor and the power outlet. Try a different power outlet.

- **No Signal:** Verify that the video cable (HDMI, DisplayPort, USB-C) is correctly connected to both the monitor and your source device. Ensure the correct input source is selected in the OSD menu.
- **Flickering/Distorted Image:** Check the video cable for damage or loose connections. Ensure your graphics card drivers are up to date. Try adjusting the refresh rate in your display settings.
- **Image Retention/Burn-in:** While OLED Care 2.0 minimizes this risk, if you notice temporary image retention, turn off the monitor for a few hours. Ensure OLED Care 2.0 features are enabled in the OSD.
- **Sound Issues:** Check that speakers or headphones are properly connected to the Earphone Out port. Verify audio output settings on your computer or console.

For more complex issues, please consult the full user manual available on the MSI support website or contact MSI customer support.

Specifications

Feature	Specification
Panel Size	31.5 inches
Panel Type	QD-OLED
Resolution	3840 x 2160 (UHD)
Refresh Rate	240Hz
Response Time	0.03ms (GtG)
Aspect Ratio	16:9
Contrast Ratio	1,000,000:1
HDR Support	VESA DisplayHDR True Black 400
Connectivity	2x HDMI 2.1, 1x DisplayPort 1.4a, 1x USB Type-C (DP Alt. / 90W PD), 2x USB Type-A, 1x USB Type-B, 1x Earphone Out
VESA Mounting	100x100mm
Dimensions (LxWxH)	9.53 x 28.27 x 19.02 inches
Weight	26 pounds
Color	White

Warranty and Support

Warranty Information:

MSI provides a **3-Year Burn-In Warranty** for the MPG 321URXW QD-OLED monitor. This warranty covers potential OLED burn-in issues, offering peace of mind for long-term usage. Please retain your proof of purchase for warranty claims.

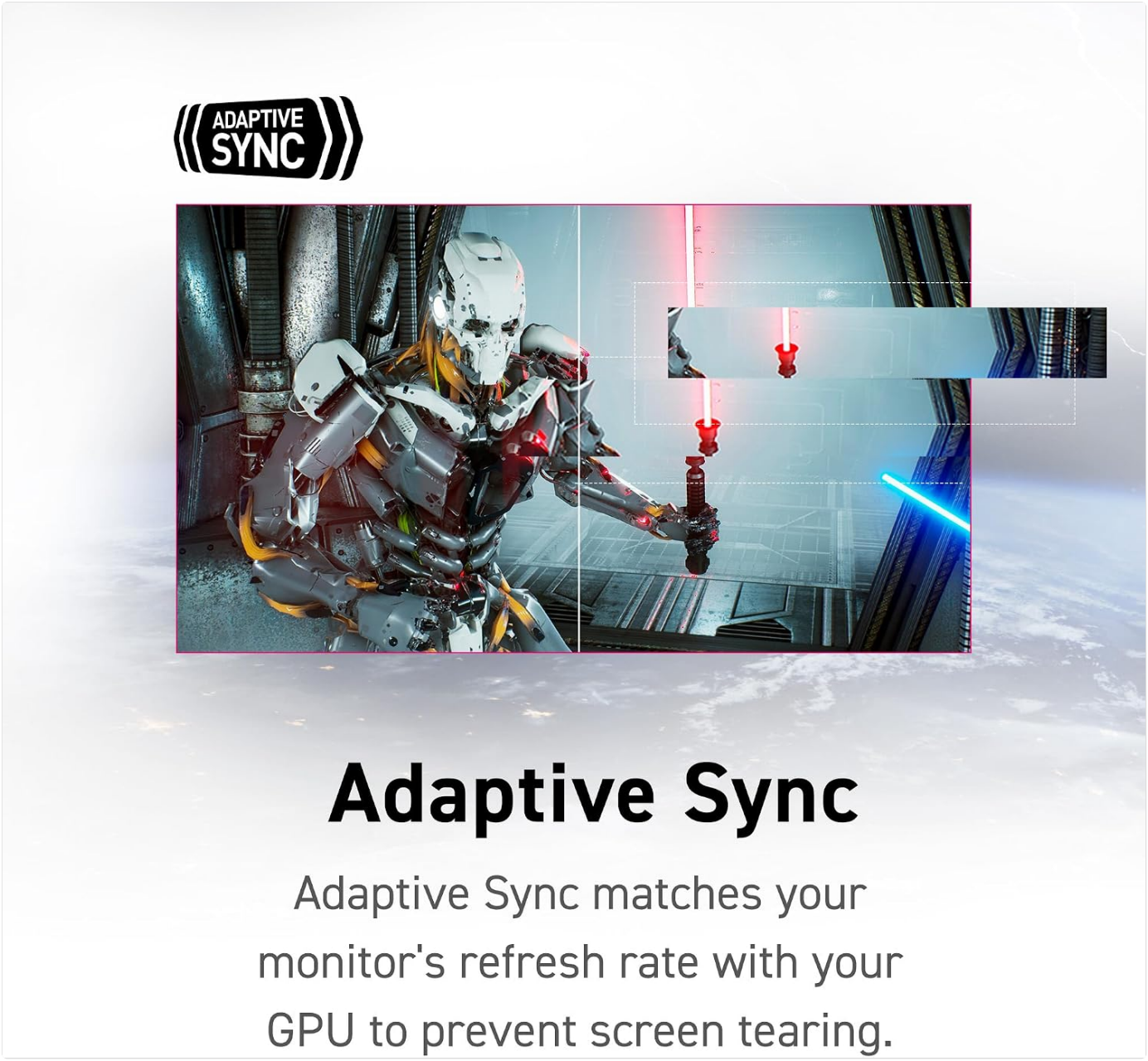


Figure 8: A visual representation of the 3-Year OLED Warranty provided by MSI, highlighting comprehensive coverage.

Customer Support:

For technical assistance, warranty claims, or further inquiries, please contact MSI customer support through their official website or the contact information provided in your product's original documentation.
You can also visit the official MSI website for the latest drivers, firmware updates, and detailed FAQs.

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