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Acer XV273K Pbmiipphzx

Acer Nitro XV273K Pbmiipphzx 27-inch UHD 4K IPS Gaming Monitor User Manual

Model: XV273K Pbmiipphzx

1. Introduction

Welcome to the user manual for your Acer Nitro XV273K Pbmiipphzx 27-inch UHD 4K IPS Gaming Monitor. This document provides essential information for the safe and efficient use of your monitor, including setup instructions, operational guidelines, maintenance tips, and troubleshooting solutions. Please read this manual thoroughly before using your monitor.

The Acer Nitro XV273K Pbmiipphzx is designed to deliver a high-performance visual experience with its 27-inch 4K UHD (3840 x 2160) IPS panel, supporting a 144Hz refresh rate and 1ms Visual Response Boost (VRB). It features AMD Radeon FreeSync and NVIDIA G-SYNC compatibility, DisplayHDR400, Quantum Dot technology, and DCI-P3 color gamut for vibrant and smooth visuals.

2. Safety Information

To ensure safe operation and prolong the life of your monitor, please observe the following safety precautions:

- **Power Source:** Use only the power adapter supplied with the monitor. Ensure the power outlet is properly grounded.
- **Ventilation:** Do not block ventilation openings. Allow adequate space around the monitor for proper airflow.
- **Liquid Exposure:** Keep the monitor away from water or other liquids. Do not operate in high humidity environments.
- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth. Avoid liquid or aerosol cleaners.
- **Placement:** Place the monitor on a stable, level surface. Avoid placing it in direct sunlight or near heat sources.
- **Servicing:** Do not attempt to service the monitor yourself. Refer all servicing to qualified service personnel.

3. Package Contents

Please check the contents of your package. If any items are missing or damaged, contact your retailer.

- Acer Nitro XV273K Pbmiipphzx 27" Monitor
- Monitor Stand (Base and Neck)
- Power Cord
- DisplayPort Cable (x2)
- USB 3.0 Cable
- Quick Start Guide
- Warranty Card

4. Setup Instructions

4.1 Assembling the Monitor 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. Attach the stand base to the neck, typically by tightening a screw from the bottom of the base.
4. Place the assembled monitor on a stable, flat surface.



Figure 4.1: Front view of the Acer Nitro XV273K monitor with stand.



Figure 4.2: Angled front view of the Acer Nitro XV273K monitor, showcasing the stand design.

4.2 VESA Wall Mount Installation (Optional)

If you plan to use a VESA-compatible wall mount or monitor arm, you will need to remove the stand and attach the VESA bracket. Note that there may be plastic panels on the back of the monitor that need to be carefully removed to access the VESA mounting holes. Refer to your VESA mount's instructions for specific installation steps.



Figure 4.3: Rear view of the Acer Nitro XV273K monitor, showing the stand attachment point and control buttons.

4.3 Connecting to a Computer

Your monitor supports DisplayPort and HDMI connections. For optimal performance, especially for 4K resolution at high refresh rates, DisplayPort is recommended.

- **DisplayPort:** Connect one or two DisplayPort cables from your computer's graphics card to the monitor's DisplayPort inputs. For 4K resolution at 144Hz, **two DisplayPort cables are required**.
- **HDMI:** Connect an HDMI cable from your computer's graphics card to one of the monitor's HDMI inputs.
- **USB Hub:** Connect the included USB 3.0 cable from your computer to the monitor's USB upstream port to enable the monitor's built-in USB 3.0 hub.



Figure 4.4: Side view of the Acer Nitro XV273K monitor, highlighting the accessible USB ports.



Figure 4.5: Rear angled view of the Acer Nitro XV273K monitor, showing the various input ports.

4.4 Power Connection

Connect the power cord to the monitor's power input, then plug the other end into a grounded electrical outlet.

4.5 Initial Power On

Press the power button on the monitor. The power indicator light will illuminate. If no image appears, ensure all cables are securely connected and your computer is powered on.

5. Operating the Monitor

5.1 On-Screen Display (OSD) Navigation

The monitor's OSD menu is controlled by buttons located on the right rear side of the monitor. These buttons allow you to adjust various settings such as brightness, contrast, color, input source, and gaming features.

- **Power Button:** Turns the monitor on or off.
- **Menu Button:** Opens the OSD menu.
- **Navigation Buttons:** Used to navigate through menu options and adjust values.
- **Exit Button:** Closes the OSD menu or goes back to the previous level.

5.2 Key Features and Settings

- **Resolution and Refresh Rate:** The monitor supports 4K UHD (3840 x 2160) resolution. The native refresh rate is 120Hz, which can be overclocked to 144Hz when using two DisplayPort cables. Ensure your graphics card and operating system settings are configured for the desired resolution and refresh rate.
- **Adaptive Sync (FreeSync/G-SYNC Compatible):** This monitor supports AMD Radeon FreeSync and is NVIDIA G-SYNC Compatible. Enable this feature in the OSD and your graphics card control panel for tear-free gaming. Note that certain combinations of refresh rate and HDR might not be simultaneously available.
- **DisplayHDR400:** For High Dynamic Range content, enable DisplayHDR400 in the OSD and your operating system settings. Adjusting brightness settings is crucial for optimal HDR experience.
- **Quantum Dot Technology & DCI-P3:** These technologies enhance color accuracy and vibrancy. The monitor is factory calibrated for low Delta E<1.
- **Visual Response Boost (VRB):** This feature reduces motion blur. It can be enabled via the OSD.

__Tip:__ Out of the box, the monitor's brightness may be set very high. Adjusting the brightness level (e.g., to 50% or lower) can significantly improve visual comfort and reduce perceived backlight bleed, especially in darker environments.

6. Maintenance

6.1 Cleaning the Monitor

- Always unplug the monitor from the power outlet before cleaning.
- Use a soft, lint-free cloth to gently wipe the screen and exterior surfaces.
- For stubborn marks, lightly dampen the cloth with water or a mild, non-abrasive screen cleaner. Do not spray cleaner directly onto the screen.
- Avoid using benzene, thinner, ammonia-based cleaners, or abrasive materials, as these can damage the monitor's surface.

6.2 Storage

If storing the monitor for an extended period, place it in its original packaging or a suitable protective container. Store in a cool, dry place away from extreme temperatures and humidity.

7. Troubleshooting

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

Problem	Possible Cause / Solution
No image on screen	◦ Ensure the power cord is securely connected to the monitor and a power outlet. ◦ Verify that the video cable (DisplayPort or HDMI) is firmly connected to both the monitor and your computer. ◦ Check if the computer is powered on and not in sleep mode. ◦ Select the correct input source using the OSD menu.
Flickering or unstable image at 144Hz	◦ Ensure two DisplayPort cables are connected for 144Hz operation at 4K resolution. ◦ Verify your graphics card drivers are up to date. ◦ Try reducing the refresh rate to 120Hz for increased stability, as some systems may experience instability at 144Hz. ◦ Check the quality of your DisplayPort cables; use the ones provided or certified high-bandwidth cables.
Backlight bleed or overly bright screen	◦ Adjust the brightness setting in the OSD menu. The factory default may be very high. ◦ If HDR is enabled, brightness settings might be controlled by the HDR mode.
OSD menu difficult to navigate	◦ Familiarize yourself with the button layout on the right rear of the monitor. ◦ Consider using Acer's desktop software (if available for your OS) to adjust OSD options.
Settings reset automatically	◦ Some settings, especially brightness, may revert when switching between modes (e.g., exiting HDR). Re-adjust settings as needed for each mode.

8. Specifications

Below are the technical specifications for the Acer Nitro XV273K Pbmiipphzx monitor:

Feature	Specification
Model Name	XV273K Pbmiipphzx
Screen Size	27 Inches
Panel Type	IPS
Resolution	3840 x 2160 (4K UHD)
Refresh Rate	120Hz (Overclockable to 144Hz with dual DisplayPort)

Feature	Specification
Response Time	1ms VRB (Visual Response Boost)
Adaptive Sync Technology	AMD Radeon FreeSync, NVIDIA G-SYNC Compatible
HDR Support	DisplayHDR400
Color Gamut	DCI-P3, Quantum Dot Technology, low Delta E<1
Connectivity	2 x DisplayPort v1.4, 2 x HDMI v2.0, 4 x USB 3.0 Ports (1 upstream)
Speakers	2 x 4 Watt Speakers
VESA Mount Compatible	Yes
Dimensions (LxWxH)	24.76 x 12.09 x 21.3 inches
Weight	14.5 pounds



Figure 8.1: Diagram showing the dimensions of the Acer Nitro XV273K monitor.

9. Warranty and Support

Your Acer Nitro XV273K Pbmiipphzx monitor comes with a manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions, including warranty period and coverage details. For technical support, service inquiries, or to download the latest drivers and software, please visit the official Acer support website or contact Acer customer service. You can find contact information and support resources on the Acer website: www.acer.com/support

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