HP OMEN 32x

HP OMEN 31.5 inch UHD 144Hz Smart Gaming Monitor

Model: OMEN 32x (99Z68AA#ABA)

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your HP OMEN 31.5 inch UHD 144Hz Smart Gaming Monitor. This monitor is designed to deliver an immersive visual experience with its 4K UHD display, high refresh rate, and smart features.

Key features include a 4K UHD (3840 x 2160) IPS panel, 144Hz refresh rate, VESA DisplayHDR 400, 1ms GtG response time with Overdrive, and NVIDIA G-SYNC compatibility. It also offers smart functionalities for streaming and multi-device connectivity.

Image 1.1: The HP OMEN 31.5 inch UHD 144Hz Smart Gaming Monitor, highlighting its 4K UHD display, VESA DisplayHDR 400, integrated 3W speakers, and NVIDIA G-SYNC compatibility.

2. WHAT'S IN THE BOX

Verify that all components are present in the packaging before proceeding with the setup.

- HP OMEN 31.5 inch UHD 144Hz Smart Gaming Monitor
- Monitor Stand (Base and Neck)
- DisplayPort cable
- HDMI cable
- USB Type-C to Type-C cable
- AC power cable
- IR and Bluetooth remote control
- 2 x AAA batteries (for remote control)
- Cable holder

- Quick Setup Poster
- Documentation (including Warranty card)

WHAT'S IN THE BOX

OMEN 31.5″ UHD 144HZ SMART GAMING MONITOR

⊘	Warranty card	🔧	Quick setup poster
▭	DisplayPort™ cable	⟷	USB Type-C® toType-C cable
HDMI	HDMI cable	⊡	Cable holder
≡	Documentation	▦	IR and Bluetooth® remote control
⚡	AC power cable	▱	2 x AAA batteries

Image 2.1: Visual representation of the items included in the product packaging, such as the monitor, cables, remote, and documentation.

3. SETUP

3.1 Assembling the Monitor Stand

1. Carefully remove the monitor and stand components from the packaging.
2. Attach the stand neck to the monitor panel, ensuring it clicks securely into place.
3. Attach the stand base to the stand neck, tightening any screws if necessary.
4. Place the assembled monitor on a stable, flat surface.

3.2 Connecting the Monitor

Connect the necessary cables to the monitor and your computer or other devices.

- **Power:** Connect the AC power cable to the monitor's power input and then to a wall outlet.
- **Video Input:** Connect either the DisplayPort cable, HDMI cable, or USB Type-C cable from your computer/device to the corresponding port on the monitor. The monitor supports 2 HDMI 2.1 ports, 1 DisplayPort 1.4, and 1 USB Type-C port.
- **USB Devices:** Connect USB peripherals to the 2 USB 2.0 Type-A ports on the monitor.
- **Audio Output:** If desired, connect external speakers or headphones to the 3.5 mm Audio Jack (Audio Out).
- **Network:** For smart features, connect an Ethernet cable to the RJ-45 port (100 Mbps, for Android TV OS use only).

Image 3.1: The rear panel of the monitor, illustrating the location of the 2 HDMI 2.1 ports, USB Type-C port, 2 USB 2.0 Type-A ports, 3.5 mm Audio Jack, DisplayPort 1.4, and RJ-45 port.

3.3 Initial Power On

1. Ensure all cables are securely connected.
2. Press the power button on the monitor or use the remote control to turn on the monitor.
3. Follow any on-screen prompts for initial setup, such as language selection and network connection for smart features.

4. OPERATING THE MONITOR

4.1 Basic Controls and OSD Navigation

The monitor can be controlled using the physical buttons located on the monitor or the included IR and Bluetooth remote control. The On-Screen Display (OSD) menu allows you to adjust various settings.

- Use the remote control's directional buttons to navigate the OSD menu.
- Press the 'OK' or 'Enter' button to select an option.
- Use the 'Back' or 'Exit' button to return to the previous menu or exit the OSD.

4.2 Display Settings and Features

Optimize your viewing experience by adjusting the following settings:

- **Resolution:** The monitor supports 4K UHD (3840 x 2160) resolution. Ensure your connected device is configured to output at this resolution for optimal clarity.
- **Refresh Rate:** Set your device's display settings to 144Hz for smooth motion and responsive gameplay.
- **VESA DisplayHDR 400:** Enable HDR settings on your device and in the monitor's OSD for enhanced contrast and color depth in compatible content.
- **NVIDIA G-SYNC Compatible:** For NVIDIA graphics card users, enable G-SYNC in your NVIDIA Control Panel to synchronize the monitor's refresh rate with your GPU's frame rate, reducing screen tearing and stuttering.
- **Dolby Vision and Dolby Atmos:** Experience enhanced visuals and immersive audio with Dolby support. Ensure your content and connected devices are compatible.
- **HP Eye Ease with Eyesafe Certification:** This feature reduces blue light emissions to help minimize eye strain during extended use, without compromising color accuracy.
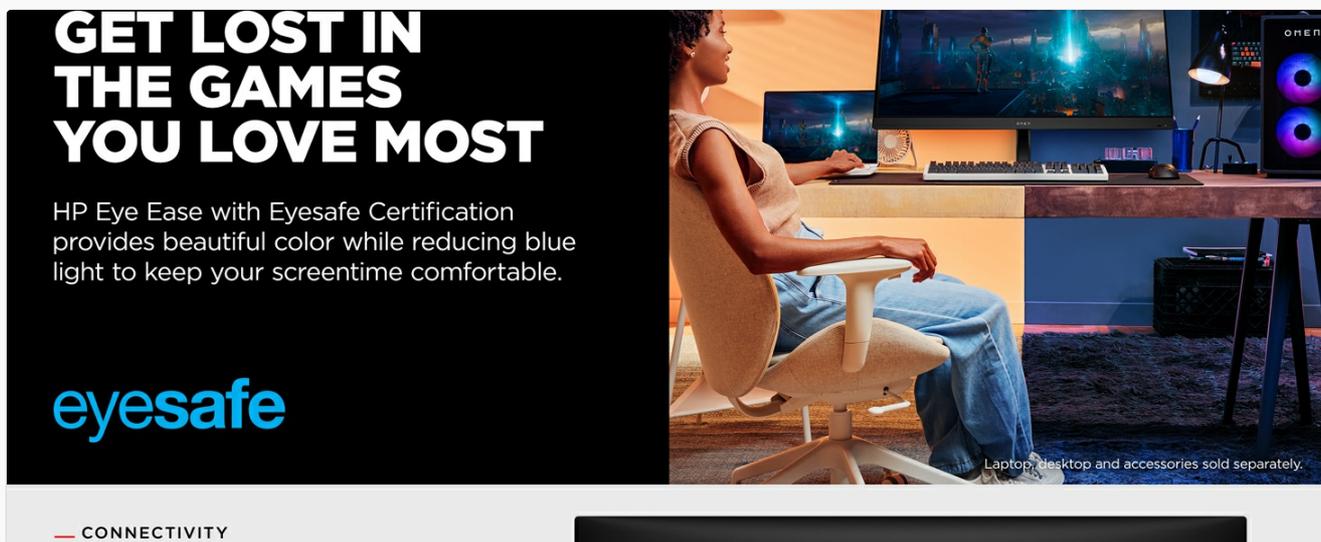

Image 4.1: The monitor features HP Eye Ease with Eyesafe Certification, designed to provide comfortable viewing by reducing blue light while maintaining color quality.

4.3 Smart Features and Connectivity

The OMEN 32x monitor offers advanced smart functionalities:

- **Multi-View:** Split your screen to display content from two different sources simultaneously. For example, use a wired connection on one side and wireless casting on the other.
- **Multi-Platform Streamer Honors:** Stream content directly from your screen to multiple platforms. Refer to the monitor's smart OS interface for configuration.

- **Shared Keyboard/Mouse (KB/M):** Easily switch your keyboard and mouse control between multiple connected devices, simplifying your setup.
- **Home Panel Integration:** Control smart home devices like lights and thermostats, view doorbell notifications, and full-screen camera feeds directly from the monitor's home panel.
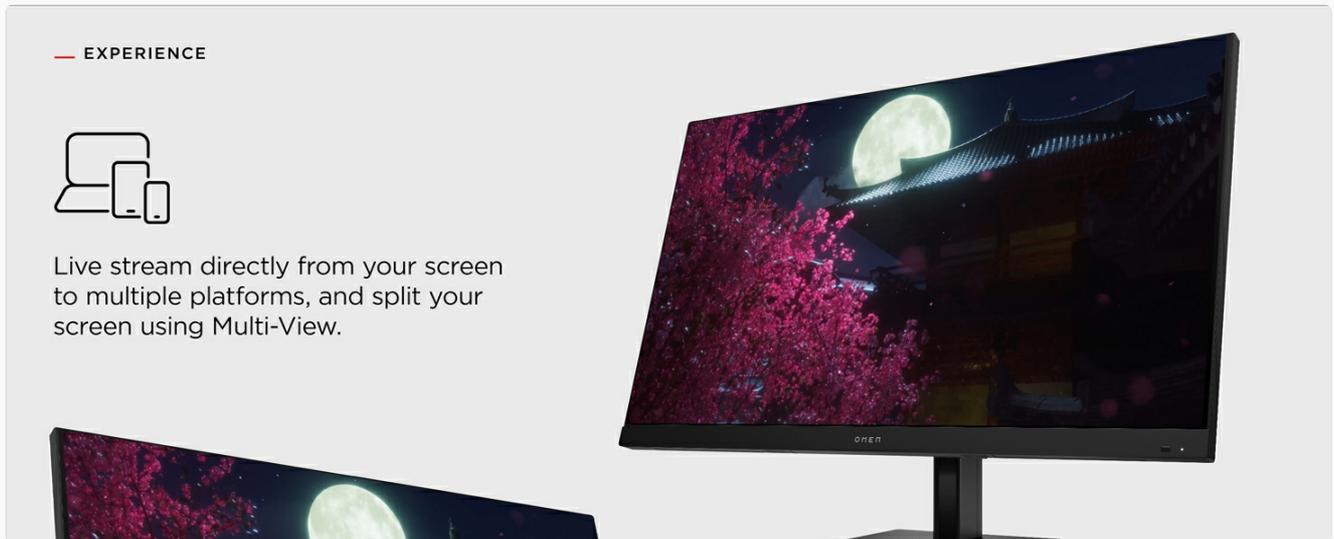

Image 4.2: The monitor's capability to live stream to multiple platforms and utilize a split-screen Multi-View feature for enhanced multitasking.
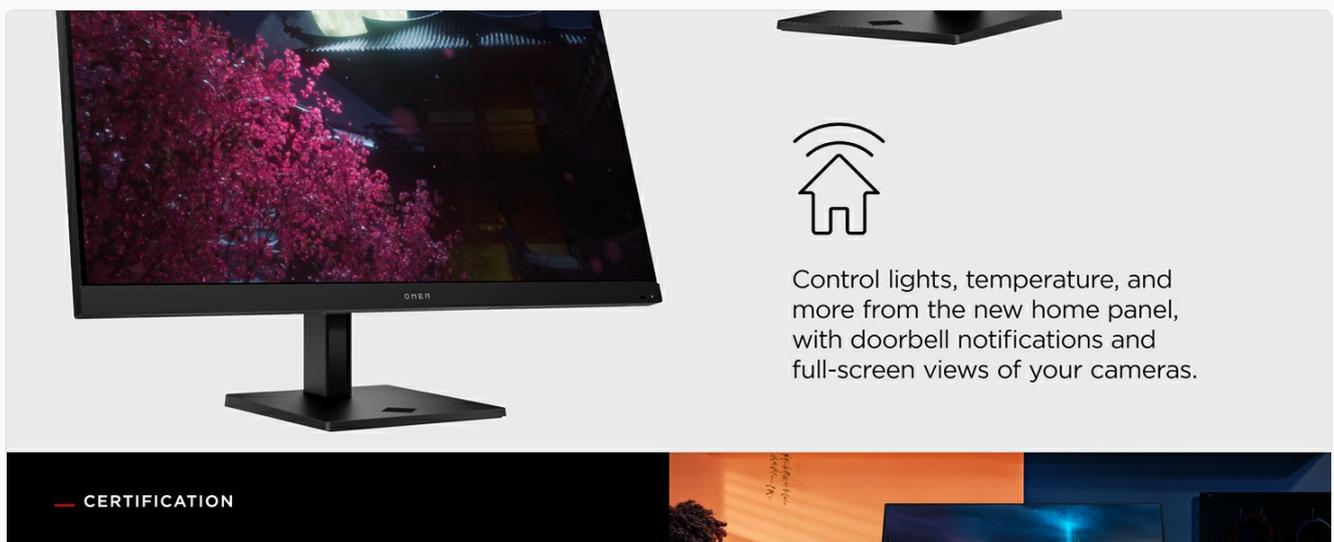

Image 4.3: The monitor's smart home panel, allowing control of lights, temperature, and displaying doorbell notifications and full-screen camera views.

4.4 Ergonomic Adjustments

Adjust the monitor for optimal viewing comfort:

- **Height Adjustment:** The stand allows for a 100mm height adjustment range.
- **Tilt:** The monitor can be tilted from -5° to +20° to find your preferred viewing angle.

Tilt
(-5° to +20°)

Height adjustable
range (100mm)

Image 4.4: Illustration of the monitor's ergonomic adjustments, including its tilt range (-5° to +20°) and 100mm height adjustable range.

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 non-abrasive screen cleaner.
- Do not spray cleaner directly onto the screen.
- Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the screen or casing.

5.2 General Care

- Avoid placing heavy objects on the monitor or its cables.
- Do not block ventilation openings on the monitor.
- Keep the monitor away from direct sunlight, heat sources, and excessive moisture.

6. TROUBLESHOOTING

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

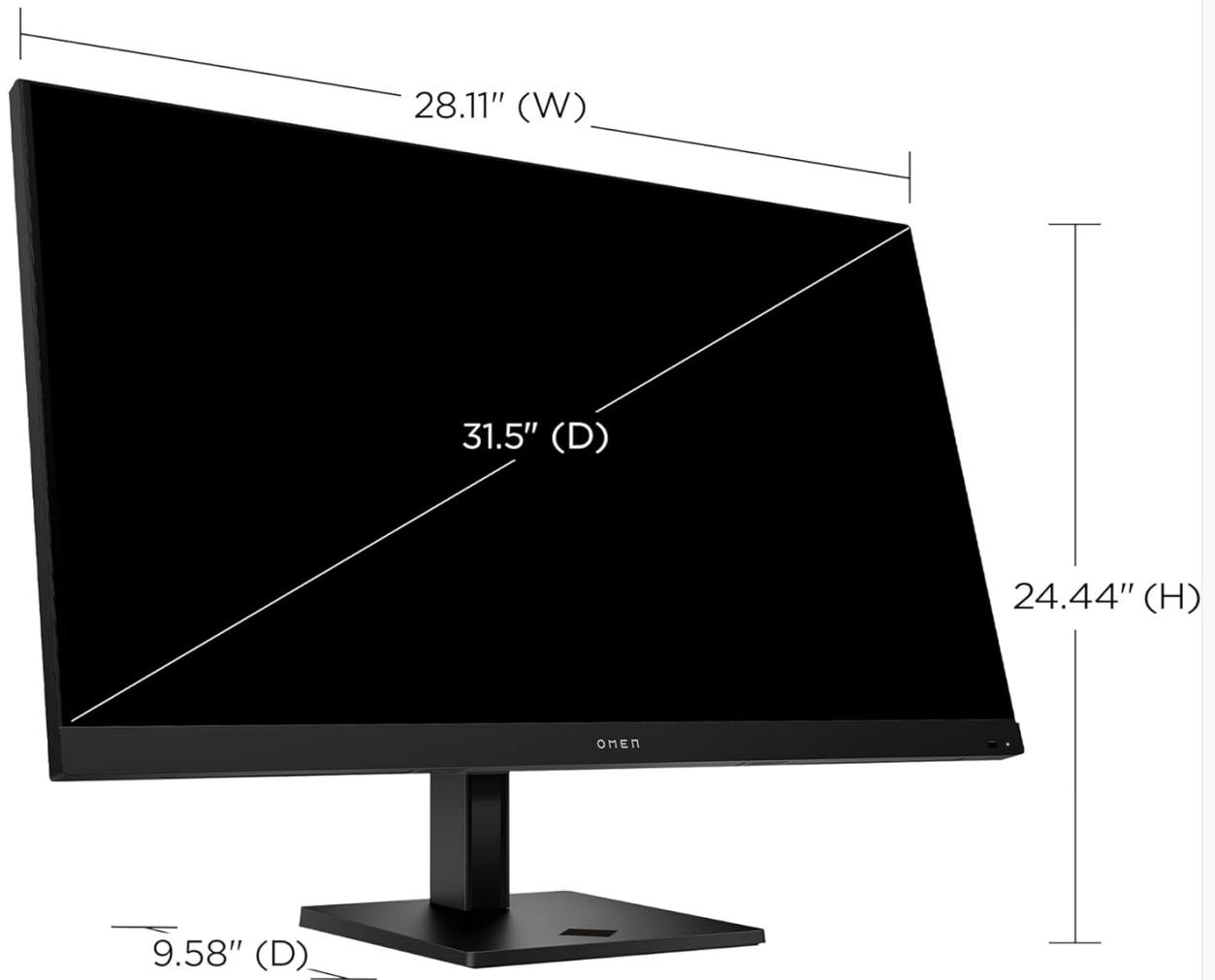| Problem	Possible Solution
No power	Ensure the power cable is securely connected to both the monitor and a working power outlet. Check if the power button is pressed.
No signal / Blank screen	Verify that the video cable (DisplayPort, HDMI, or USB-C) is correctly connected to both the monitor and your computer. Ensure the correct input source is selected in the monitor's OSD menu. Try restarting your computer.
Image flickering or distortion	Check the video cable for damage. Ensure your graphics drivers are up to date. Adjust the refresh rate in your computer's display settings. Disable G-SYNC temporarily to see if the issue persists.
Colors appear incorrect	Adjust color settings in the OSD menu. Perform a factory reset of the monitor settings. Ensure your graphics card color settings are correctly configured.
Remote control not working	Check and replace the AAA batteries. Ensure there are no obstructions between the remote and the monitor's IR receiver. Re-pair the Bluetooth remote if necessary.

If the problem persists after trying these solutions, contact HP customer support.

7. SPECIFICATIONS

Feature	Detail
Model Number	99Z68AA#ABA
Screen Size	31.5 Inches
Panel Type	IPS
Resolution	4K UHD (3840 x 2160)

Feature	Detail
Refresh Rate	144Hz
Response Time	1ms GtG (with Overdrive)
HDR Support	VESA DisplayHDR 400
G-SYNC Compatibility	NVIDIA G-SYNC Compatible
Contrast Ratio	1000:1
Brightness	400 nits (peak)
Viewing Angles	178° (H) / 178° (V)
Speakers	Four integrated 3W speakers
Video Input Ports	2 x HDMI 2.1, 1 x DisplayPort 1.4, 1 x USB Type-C
USB Ports	2 x USB 2.0 Type-A (Battery Charging 1.2)
Audio Output	3.5 mm Audio Jack
Network Port	1 x RJ-45 (100 Mbps, for Android TV OS only)
Ergonomics	Height adjustable (100mm), Tilt (-5° to +20°)
Dimensions (WxDxH)	28.11 x 9.58 x 16.93 inches (with stand)
Weight	23.3 pounds (with stand)
Color	Black

DIMENSIONS

28.11″ (W)

31.5″ (D)

24.44″ (H)

9.58″ (D)

OMEN

LB 23.32 lb

Color: Black

Image 7.1: Detailed dimensions of the HP OMEN 31.5 inch monitor, including width, height, and depth, along with its weight.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

This HP OMEN monitor comes with a **HP 3-year limited warranty**. Please refer to the warranty card included in your product packaging for full terms and conditions. Keep your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact HP customer support. You can find support contact information on the official HP website or through the documentation provided with your monitor.

Online resources, drivers, and FAQs may also be available on the HP Support website.