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› [HP](#) /

› HP OMEN 16 Gaming Laptop User Manual

HP 16-ap

HP OMEN 16 Gaming Laptop User Manual

Model: 16-ap

INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your HP OMEN 16 Gaming Laptop. Please read this guide thoroughly to ensure optimal performance and longevity of your device.

HP OMEN

Windows 11

16 inch
(1920 x 1200)

AMD Ryzen 9
8940HX Processor

NVIDIA® GeForce
RTX™ 5060 GPU

Wi-Fi 6E

Backlit Keyboard



Image: HP OMEN 16 Gaming Laptop highlighting its core features.

1. INITIAL SETUP

1.1 Unboxing and Contents

Carefully remove all components from the packaging. Ensure the following items are present:

- HP OMEN Laptop
- Power Adapter and Cable
- Mytrix 2.4GHz Wireless Gaming Headset
- Cooling Pad
- Documentation (this manual, warranty information)

1.2 Connecting Power

Connect the power adapter to the laptop's AC smart pin port and then plug it into a power outlet. The laptop is designed to

operate on AC power and charge the battery simultaneously.



Image: Overview of laptop ports for connecting power and peripherals.

1.3 First Power On

Press the power button located on the laptop. Follow the on-screen instructions to complete the Windows 11 Home setup process, including language selection, network connection, and user account creation.

1.4 Connecting Peripherals

Utilize the available ports to connect external devices:

- **USB Type-A (5Gbps/10Gbps signaling rate):** For mice, keyboards, external storage.
- **USB Type-C (10Gbps signaling rate, USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge):** For high-speed data transfer, external displays, and charging compatible devices.
- **HDMI 2.1:** For connecting to external monitors or TVs.
- **RJ-45:** For wired network connection.

- **Headphone/Microphone Combo:** For audio input/output.

The included Mytrix Wireless Gaming Headset can be connected via its 2.4GHz wireless dongle, typically plugged into a USB-A port. The Cooling Pad should be placed under the laptop and connected via USB for power.

2. OPERATING YOUR LAPTOP

2.1 Power Management

To power on, press the power button. To shut down, click the Start button, then Power, and select "Shut down." For sleep mode, close the lid or select "Sleep" from the Power menu. For optimal performance during gaming or demanding tasks, ensure the laptop is connected to AC power.

2.2 Display Features

Your laptop features a 16-inch 2K (1920 x 1200) IPS anti-glare display with a 144Hz refresh rate and AMD FreeSync Premium. This provides smooth visuals and reduced motion blur, ideal for gaming. Adjust display settings via Windows Display Settings or NVIDIA Control Panel.

16" FHD Display

16"
FHD

100%
sRGB

Pantone
Validated

Anti-Glare
IPS Panel

Eyesafe®
Certified



Image: The laptop's display features for an immersive visual experience.

2.3 Keyboard and Touchpad

The laptop is equipped with an RGB backlit keyboard. Customize lighting effects and colors through the OMEN Gaming Hub software. The touchpad supports multi-touch gestures for navigation.

2.4 Audio System

Experience immersive audio with HyperX dual speakers and DTS:X Ultra spatial audio. Connect external headphones or speakers via the combo audio jack or Bluetooth.

2.5 Wireless Connectivity

The laptop supports Wi-Fi 6E for high-speed wireless internet and Bluetooth for connecting wireless peripherals. Configure these settings in Windows Settings > Network & Internet.

2.6 OMEN Gaming Hub and Windows Copilot

Utilize the OMEN Gaming Hub for system monitoring, performance optimization, RGB lighting control, and other gaming-specific settings. Windows Copilot, an AI assistant, can help with various tasks and system adjustments.

2.7 Camera Privacy Shutter

For enhanced privacy, your laptop includes a physical camera shutter. Slide the shutter to cover or uncover the webcam lens as needed.

3. MAINTENANCE AND CARE

3.1 Cleaning Your Laptop

Use a soft, lint-free cloth to clean the screen and exterior surfaces. For stubborn marks, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials. Regularly clean the keyboard to prevent dust buildup.

3.2 Cooling System

The HP OMEN 16 features a 5-phase liquid metal cooling system. To maintain optimal cooling performance, ensure the laptop's vents are unobstructed. The included cooling pad can further enhance thermal management during intensive use. Periodically check and clean the cooling pad's fans if they accumulate dust.

HP OMEN 16" Gaming Laptop

Advanced Cooling for Sustained Performance



Image: Advanced cooling system of the HP OMEN 16 laptop.

3.3 Software Updates

Regularly update your Windows operating system, drivers (especially graphics drivers), and OMEN Gaming Hub software to ensure stability, security, and optimal performance. These updates often include performance enhancements and bug fixes.

3.4 Battery Care

To prolong battery life, avoid consistently discharging the battery completely or keeping it at 100% charge for extended periods. For long-term storage, charge the battery to around 50-70% and store the laptop in a cool, dry place.

4. TROUBLESHOOTING

4.1 Common Issues and Solutions

- **Laptop not powering on:** Ensure the power adapter is securely connected and the power outlet is functional. Try a

different outlet.

- **Display issues (no image, flickering):** Restart the laptop. If using an external monitor, check the HDMI cable connection. Update graphics drivers.
- **No sound:** Check volume levels in Windows, ensure headphones/speakers are properly connected, and update audio drivers.
- **Wi-Fi connectivity problems:** Restart your router and modem. Check Wi-Fi settings in Windows. Ensure Wi-Fi is enabled.
- **Slow performance:** Close unnecessary applications. Check for background processes. Ensure sufficient free storage space. Run a malware scan.

For more complex issues, refer to the HP support website or contact technical support.

5. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	HP
Model Name	OMEN
Model Number	16-ap
Processor	AMD Ryzen 9 8940HX (16 Cores, up to 5.3 GHz)
Graphics	NVIDIA GeForce RTX 5060 (Dedicated)
RAM	32 GB DDR5 (SODIMM)
Storage	1 TB SSD (Solid State)
Display	16-inch 2K (1920 x 1200) IPS Anti-Glare LED, 144Hz Refresh Rate
Operating System	Windows 11 Home
Connectivity	Wi-Fi 6E (802.11ax), Bluetooth
Ports	3x USB Type-A, 1x USB Type-C, 1x HDMI 2.1, 1x RJ45, 1x Headphone/Microphone Combo
Keyboard	RGB Backlit Keyboard
Dimensions (L x W x H)	14.07" x 10.59" x 1"
Weight	Approx. 5.42 lbs
Webcam	Front-facing with physical privacy shutter
Audio	HyperX Dual Speakers, DTS:X Ultra
UPC	199251593680

6. WARRANTY INFORMATION

Your HP OMEN 16 Gaming Laptop comes with a**12-month manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the warranty documentation included with your product or visit the official HP support website.

Please retain your proof of purchase for warranty claims.

7. CUSTOMER SUPPORT

If you encounter any issues not covered in this manual or require further assistance, please contact HP Customer Support. You can find contact information and additional resources on the official HP website:

[Visit HP Support Website](#)

When contacting support, please have your laptop's model number (16-ap) and serial number ready.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question