

## HP OMEN 16

# HP OMEN 16 Slim Gaming Laptop User Manual

Model: OMEN 16 | Brand: HP

## 1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your HP OMEN 16 Slim Gaming Laptop. Designed for high-performance gaming and demanding productivity tasks, this laptop combines powerful hardware with advanced cooling solutions. Please read this manual thoroughly to ensure optimal use and longevity of your device.



Figure 1: HP OMEN 16 Slim Gaming Laptop with Headset

## 2. What's in the Box

Verify that all items are present in the packaging:

- HP OMEN 16 Gaming Laptop
- 230W AC Adapter with Power Cord
- User Manual (this document)
- Headset by IST Computers

# WHAT'S IN THE BOX



OMEN 16"  
Gaming Laptop



230 W AC  
power adapter



Setup instructions



5.42 lb

Color: Shadow black



Figure 2: Included items with the HP OMEN 16 Laptop

## 3. SETUP

### 3.1 Initial Power-On

1. Connect the 230W AC Adapter to the laptop's power port and then to a power outlet.
2. Open the laptop lid.
3. Press the power button located on the keyboard deck.
4. Follow the on-screen instructions to complete the Windows 11 Home setup.

### 3.2 Connecting the Headset

Plug the included headset into the 3.5mm headphone/microphone combo jack on the laptop. Ensure the connection is

secure for optimal audio and microphone performance.

## 4. FEATURES

### 4.1 Powerful Performance

The HP OMEN 16 is equipped with an **AMD Ryzen 9 8940HX Processor** (16 cores, 32 threads, up to 5.3 GHz) for exceptional speed and responsiveness. Advanced **OMEN Tempest Cooling Technology** prevents frequency reduction under long-term high load, ensuring consistent performance. **OMEN AI** intelligently monitors hardware metrics and dynamically allocates resources to boost frame rates automatically.

### 4.2 Creative Graphics

Experience advanced visuals with the **NVIDIA GeForce RTX 5060 8GB GDDR7 GPU**. This graphics card supports improved ray tracing, AI-enhanced DLSS 4, and NVIDIA Reflex 2 for immersive gaming. AV1 encoding and NVENC acceleration are included for content creation and esports.

### 4.3 Immersive Display

The **16-inch WUXGA (1920 x 1200) display** features a **144Hz refresh rate** and 300 nits brightness for vivid and smooth visuals. It supports expanding your workspace or gameplay across multiple screens via HDMI or USB Type-C, with up to two external displays at resolutions up to 8K@60Hz.



## Fast, smooth and vivid visuals

Enjoy lightning-fast gaming – plus play longer and stronger with its Eyesafe® certified display for improved eye comfort.<sup>1</sup>

1. Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See <https://eyesafe.com> for more details.

Figure 3: Laptop display showcasing vivid visuals

### 4.4 Memory and Storage

With **32GB DDR5 RAM** and a **2TB SSD**, the laptop offers seamless multitasking, fast boot times, responsive file access,

and generous storage capacity.

## 4.5 Connectivity and Audio

The laptop includes **USB-C 3.2 Gen 2**, two **USB-A 3.2 Gen 1**, **USB-A 3.2 Gen 2**, **HDMI 2.1**, **Ethernet (RJ45)**, and a headphone/microphone combo jack. It features **Wi-Fi 6** and **Bluetooth 5.4** for fast, stable wireless connections. The **1080p IR camera** supports clear video calls and facial recognition. **DTS:X Ultra** and **HyperX audio** provide immersive spatial sound.

## 4.6 Keyboard and Operating System

A personalized **4-zone RGB backlit keyboard** enhances both typing and gaming. The laptop runs on **Windows 11 Home** with AI-powered Copilot for efficient task management.

# 5. OPERATING INSTRUCTIONS

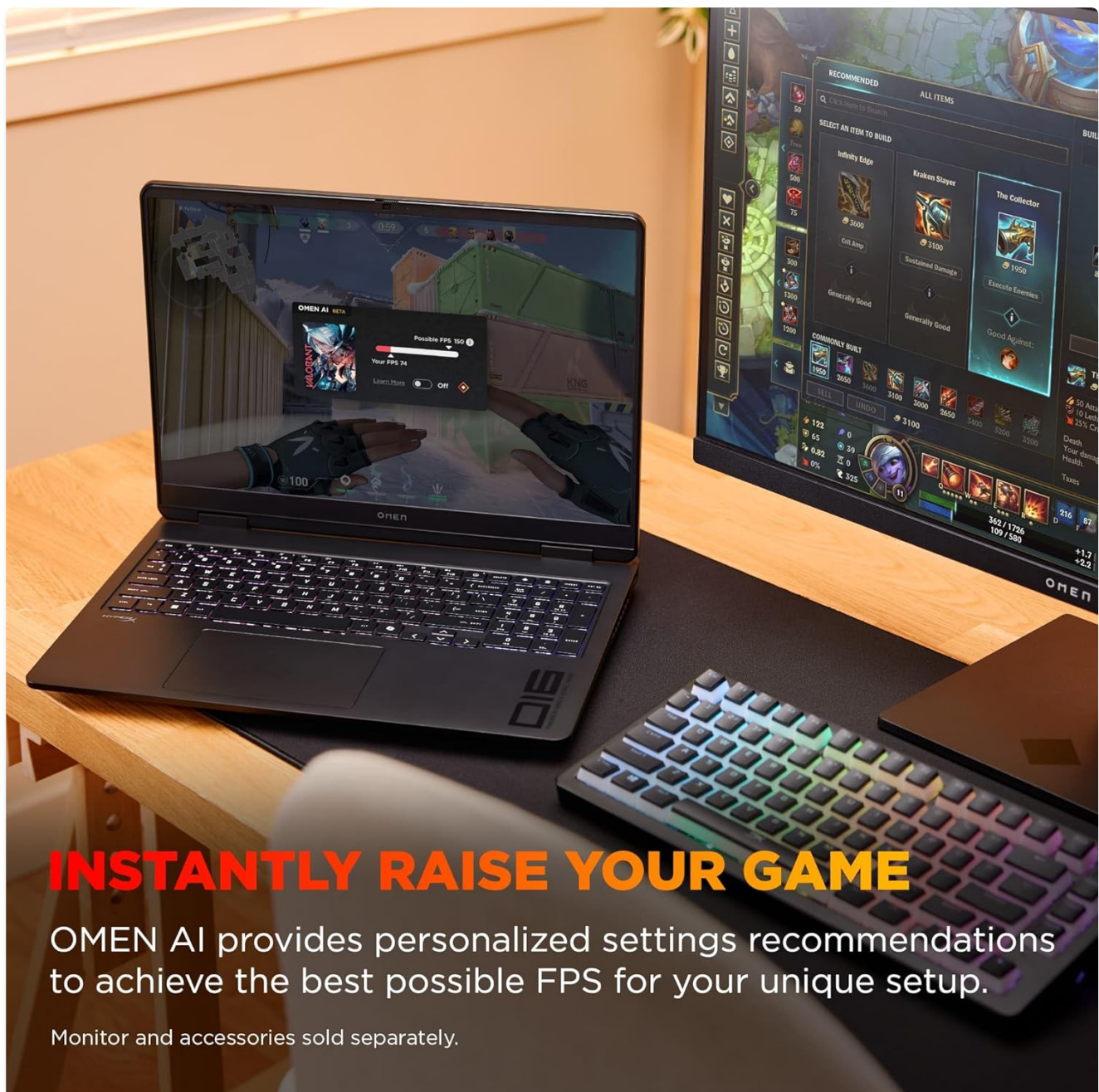
## 5.1 Power Management

- **Power On:** Press the power button.
- **Sleep Mode:** Close the lid or select 'Sleep' from the Start menu.
- **Shut Down:** Select 'Shut down' from the Start menu.

## 5.2 OMEN Gaming Hub

The OMEN Gaming Hub software allows you to customize performance settings, monitor system metrics, and control the 4-zone RGB keyboard lighting. Access it via the Start menu or the dedicated OMEN key.





## INSTANTLY RAISE YOUR GAME

OMEN AI provides personalized settings recommendations to achieve the best possible FPS for your unique setup.

Monitor and accessories sold separately.

Figure 4: OMEN AI providing personalized settings

### 5.3 External Display Connection

Connect external monitors using the HDMI 2.1 port or a compatible USB Type-C port. Use Windows display settings to configure multiple displays (duplicate, extend, or second screen only).

## 6. CONNECTIVITY

The HP OMEN 16 offers a variety of ports for connecting peripherals and external devices:

- **USB-C 3.2 Gen 2:** High-speed data transfer and display output.
- **USB-A 3.2 Gen 1 (x2):** Standard USB ports for accessories.
- **USB-A 3.2 Gen 2:** Faster USB-A port.
- **HDMI 2.1:** Connect to external displays or TVs.
- **Ethernet (RJ45):** Wired network connection.

- **Headphone/Microphone Combo Jack:** For audio input/output.
- **Wi-Fi 6:** High-speed wireless internet.
- **Bluetooth 5.4:** Wireless peripheral connectivity.



Figure 5: Laptop connectivity ports

## 7. MAINTENANCE

### 7.1 Cleaning

Use a soft, lint-free cloth to clean the screen and chassis. For stubborn marks, dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals.

### 7.2 Cooling System

Ensure the laptop's vents are clear of obstructions to allow for proper airflow and prevent overheating. Regularly check for dust buildup and clean as necessary.



Figure 6: OMEN Tempest Cooling Technology

### 7.3 Battery Care

To maximize battery lifespan, avoid fully discharging the battery frequently. Store the laptop in a cool, dry place when not in use for extended periods.

## 8. TROUBLESHOOTING

### 8.1 Power Issues

- If the laptop does not power on, ensure the AC adapter is securely connected and the power outlet is functional.
- If the battery is not charging, check the adapter and cable for damage.

### 8.2 Display Problems

- If the screen is blank, try adjusting the brightness settings or connecting an external monitor to check if the issue is



with the laptop's display.

- For external display issues, ensure cables are connected correctly and display settings are configured in Windows.

### 8.3 Performance Lag

- Close unnecessary background applications.
- Ensure OMEN Tempest Cooling vents are not blocked.
- Update graphics drivers and Windows.

## 9. SPECIFICATIONS

Feature	Specification
Model Name	HP OMEN 16
Processor	AMD Ryzen 9 8940HX (16 cores, 32 Threads, up to 5.3 GHz)
RAM	32 GB DDR5 (4800 MHz)
Storage	2 TB SSD (Solid State)
Graphics Coprocessor	NVIDIA GeForce RTX 5060 8GB GDDR7
Screen Size	16 Inches
Screen Resolution	1920 x 1200 pixels (WUXGA)
Refresh Rate	144Hz
Operating System	Windows 11 Home
Wireless Type	802.11ax (Wi-Fi 6), Bluetooth 5.4
USB 3.0 Ports	4 (including USB-C)
Item Weight	5.4 pounds
Product Dimensions	14.07 x 10.59 x 1.12 inches

## 10. WARRANTY AND SUPPORT

### 10.1 Warranty Information

This HP OMEN 16 laptop includes a three-year warranty from **Issaquah Highlands Tech** on upgraded Memory/SSD components. A one-year warranty from the original manufacturer covers all remaining components. Please retain your proof of purchase for warranty claims.

### 10.2 Technical Support

For technical assistance, please contact your retailer or the manufacturer's support channels. Refer to the official HP

support website for drivers, software updates, and additional troubleshooting resources.

- **HP Support Website:** [support.hp.com](https://support.hp.com)
- **Issaquah Highlands Tech Support:** Refer to your purchase documentation for contact details.