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## HP 16T-AN000

# HP Omen 16 Gaming Laptop User Manual

Model: 16T-AN000

## INTRODUCTION

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This manual provides essential information for the setup, operation, and maintenance of your HP Omen 16 Gaming Laptop. Please read these instructions carefully to ensure proper use and to maximize the performance and longevity of your device. This laptop is equipped with an Intel Core Ultra 7 255H processor, NVIDIA GeForce RTX 5070 graphics, 16GB DDR5 RAM, a 512GB NVMe M.2 SSD, and a 16.0-inch WQXGA (2560 x 1600) 240Hz display.



Image: Front view of the HP Omen 16 Gaming Laptop with its screen active.

## WHAT'S IN THE BOX

Verify that all items are present in the package:

- HP Omen 16 Gaming Laptop
- 150W AC Adapter
- 32GB USB Drive

## SETUP

### 1. Initial Power-On

1. Unpack the laptop and all accessories.
2. Connect the 150W AC adapter to the laptop's power jack and then to a power outlet.
3. Open the laptop lid. The laptop may power on automatically, or you may need to press the power button.
4. Follow the on-screen instructions to complete the Windows 11 Home setup, including language, region, network connection,

and user account creation.

## 2. Connecting Peripherals

Utilize the available ports to connect external devices such as a mouse, keyboard, external display, or storage devices.



*Image: Detailed diagram of the laptop's ports.*

- **USB 3.2 Gen 2 Type-C:** Supports Power Delivery, DisplayPort, Power-off Charging, and 10Gbps data transfer.
- **USB 3.2 Gen 2 Type-A:** Supports 10Gbps data transfer.
- **USB 3.2 Gen 1 Type-A:** Supports 5Gbps data transfer.
- **HDMI 2.1:** For connecting to external displays.
- **RJ-45:** For wired network connection.
- **Headphone/Microphone Combo Jack:** For audio input and output.

## 3. Network Connection

- **Wi-Fi:** Connect to a wireless network through Windows settings. The laptop supports Realtek Wi-Fi 6 (2x2).

- **Bluetooth:** Pair Bluetooth devices such as headphones or controllers. The laptop supports Bluetooth 5.3.

## OPERATING

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### 1. Keyboard and Touchpad

The laptop features a full-size, four-zone RGB backlit keyboard with a Numpad. Adjust backlight settings through the OMEN Gaming Hub software or dedicated function keys. The precision touchpad supports multi-touch gestures for navigation.

### 2. Display

The 16.0-inch WQXGA (2560 x 1600) IPS display offers a 240Hz refresh rate for smooth visuals. Adjust display settings, including resolution and refresh rate, through Windows Display Settings or NVIDIA Control Panel for optimal gaming and viewing experiences.



*Image: Angled view of the HP OMEN 16 Gaming Laptop showcasing its display and RGB keyboard.*

### 3. Camera

The integrated 1080p FHD camera includes a privacy shutter. Slide the shutter to cover the camera lens when not in use to ensure privacy.

## 4. Battery Management

The laptop is equipped with a 4-cell, 70 Wh lithium-ion battery, providing up to 6 hours of average usage. For optimal battery health, avoid frequently discharging the battery completely and consider using battery health management features available in Windows or HP software.

## MAINTENANCE

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### 1. Cleaning

- **Screen:** Use a soft, lint-free cloth lightly dampened with water or a screen cleaner. Do not spray liquid directly onto the screen.
- **Keyboard and Chassis:** Use a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used. Avoid harsh chemicals.
- **Vents:** Periodically clean the air vents with compressed air to prevent dust buildup, which can affect cooling performance.

### 2. Software Updates

Regularly update your operating system (Windows Update), drivers (especially graphics drivers from NVIDIA and HP Support Assistant), and firmware to ensure optimal performance, security, and compatibility.

### 3. Storage Management

Periodically review and delete unnecessary files to maintain sufficient free space on your 512GB NVMe M.2 SSD. Utilize Windows Disk Cleanup or third-party tools for this purpose.

## TROUBLESHOOTING

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This section addresses common issues you might encounter. For more detailed troubleshooting or persistent problems, refer to the HP support website or contact customer service.

- **Laptop does not power on:** Ensure the AC adapter is securely connected to both the laptop and a working power outlet. Try a different outlet. If using battery, ensure it is charged.
- **Display issues (no image, flickering):** Connect an external monitor to verify if the issue is with the laptop's display or the graphics output. Restart the laptop. Update graphics drivers.
- **Slow performance:** Check for background applications consuming resources. Ensure sufficient free storage space. Run a virus scan. Update drivers and Windows.
- **Network connectivity problems:** For Wi-Fi, ensure Wi-Fi is enabled and you are connected to the correct network. Restart your router. For wired connection, check the Ethernet cable and router status.
- **Overheating:** Ensure vents are clear of obstructions. Use the laptop on a hard, flat surface. Consider adjusting power settings to a cooler profile.

## SPECIFICATIONS

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Feature	Specification
Model Name	Omen 16T-AN000
Processor	Intel Core Ultra 7 255H 16-Core (Up to 5.1 GHz)
Graphics	NVIDIA GeForce RTX 5070 8GB GDDR7

Feature	Specification
RAM	16GB DDR5 5600 MHz
Storage	512GB NVMe M.2 SSD
Display	16.0" WQXGA (2560 x 1600) IPS, 300 nits, Anti-glare, 240Hz
Operating System	Windows 11 Home
Wireless Connectivity	Realtek Wi-Fi 6 (2x2), Bluetooth 5.3
Ports	1x USB 3.2 Gen 2 Type-C, 1x USB 3.2 Gen 2 Type-A, 2x USB 3.2 Gen 1 Type-A, 1x HDMI 2.1, 1x RJ-45, 1x Headphone/Microphone Combo Jack
Keyboard	Fullsize Four-Zone RGB Backlit with Numpad
Camera	1080p FHD Camera with Privacy Shutter
Battery	4-cell, 70 Wh Li-ion (Up to 6 hours average usage)
Dimensions (LxWxH)	14.09 x 10.6 x 1.15 inches
Weight	5.4 lbs
Color	Shadow black

## WARRANTY AND SUPPORT

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Your HP Omen 16 Gaming Laptop comes with 1 Year Support from HP within the US. For technical assistance, warranty claims, or further information, please visit the official HP support website or contact HP customer service. Keep your purchase receipt and product serial number readily available when seeking support.

**HP Support Website:** <https://support.hp.com>