HP GT22-1082

HP OMEN 45L Gaming Desktop GT22-1082 User Manual

Your guide to setting up, operating, and maintaining your HP OMEN 45L Gaming Desktop.

1. INTRODUCTION

The HP OMEN 45L Gaming Desktop is engineered for high-performance gaming and creative tasks. It features a 13th Generation Intel Core i9-13900KF processor, NVIDIA GeForce RTX 4070 Ti graphics, 16 GB of DDR5 RAM, and a 1 TB PCIe NVMe M.2 SSD. This desktop runs on Windows 11 Home and includes advanced cooling with the OMEN CRYO CHAMBER system.

PATENTED COOLING, EXTREME PERFORMANCE.

OMEN 45L GAMING DESKTOP

LB 49.82

PROCESSOR

13TH GENERATION INTEL® CORE™ I9-13900KF PROCESSOR

- ◆ Ultra-efficient multi-tasking
- ◆ Optimize the latest games and gaming software
- ◆ 24 cores (8 P-cores + 16 E-cores) and 32 threads

Entry — Med — High

GRAPHICS

NVIDIA® GEFORCE RTX™ 4070 TI (12 GB GDDR6X DEDICATED MEMORY)

- ◆ Fast for gamers and creators
- ◆ Experience lifelike virtual worlds and ultra-high FPS gaming
- ◆ Unprecedented workflow acceleration

Entry — Med — High

STORAGE

1 TB

1 TB PCIE® NVME™ M.2 SSD

- ◆ 10x faster performance than a traditional hard drive
- ◆ Increased bandwidth for media-rich gameplay
- ◆ Enables a thinner form factor

Entry — Med — High

MEMORY

16 GB

KINGSTON FURY 16 GB DDR5-5200 XMP RGB HEATSINK RAM (2 X 8 GB)

- ◆ Stream and run games smoothly
- ◆ Exceeds minimum requirement for most popular games
- ◆ Create video content and multitask as needed

Entry — Med — High

Figure 1: Front view of the HP OMEN 45L Gaming Desktop, showcasing its design and RGB lighting.

2. SETUP

2.1 Unboxing and Placement

Carefully remove the desktop from its packaging. Ensure the system is placed on a stable, flat surface with adequate ventilation around all sides to allow for optimal airflow. Avoid placing the desktop in enclosed spaces or near heat sources.

Figure 2: The HP OMEN 45L Gaming Desktop with its approximate dimensions (8.03" W x 18.5" D x 21.85" H).

2.2 Connecting Peripherals

Connect your monitor, keyboard, mouse, and other peripherals to the appropriate ports on the desktop. The desktop features a variety of ports for connectivity:

- **Rear Ports:** 4 USB Type-A, 2 USB 2.0 Type-A, 2 USB Type-C, HDMI, 3 DisplayPort.
- **Top Ports:** Headphone jack, Microphone jack, 3 USB Type-A, 4 USB 2.0 Type-A.

This desktop is a one stop, can't stop, shop for DIY performance mastery.

Every aspect was built specifically for gaming performance, including tempered glass panels, a full-metal frame and complete RGB control.

Figure 3: Rear ports of the desktop, including USB, HDMI, and DisplayPort connections.

2.3 Power On

Connect the power cable to the desktop and a power outlet. Press the power button located on the top of the desktop to turn on the system. Follow the on-screen instructions for initial Windows 11 setup.

3. OPERATING THE DESKTOP

3.1 Windows 11 Home

Your HP OMEN 45L Gaming Desktop comes pre-installed with Windows 11 Home, offering a refreshed Start menu and new ways to connect and create. Explore features like AI integration in Paint and the Snipping Tool, and utilize Windows Copilot for enhanced productivity.

Video 1: An official HP video demonstrating AI features in Windows 11 Paint.

Video 2: An official HP video demonstrating AI features in Windows 11 Snipping Tool.

3.2 OMEN Gaming Hub

The OMEN Gaming Hub is your central control panel for optimizing your gaming experience. It allows you to monitor performance, customize lighting effects, and manage game settings. This software is designed to enhance your gameplay and system efficiency.
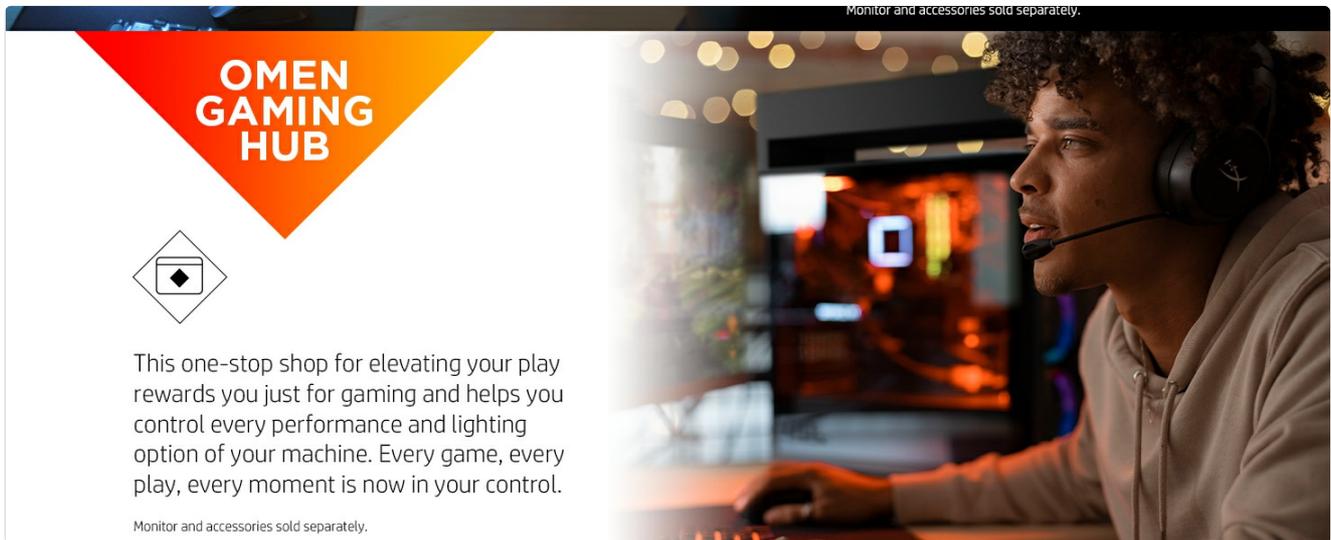

Figure 4: The OMEN Gaming Hub software interface, showing performance monitoring and customization options.

3.3 OMEN Light Studio

Personalize your desktop's aesthetics with OMEN Light Studio. This feature allows you to control RGB lighting effects for the internal components and external fans, offering various modes like ambient, wave, and interactive lighting to match your setup or mood.
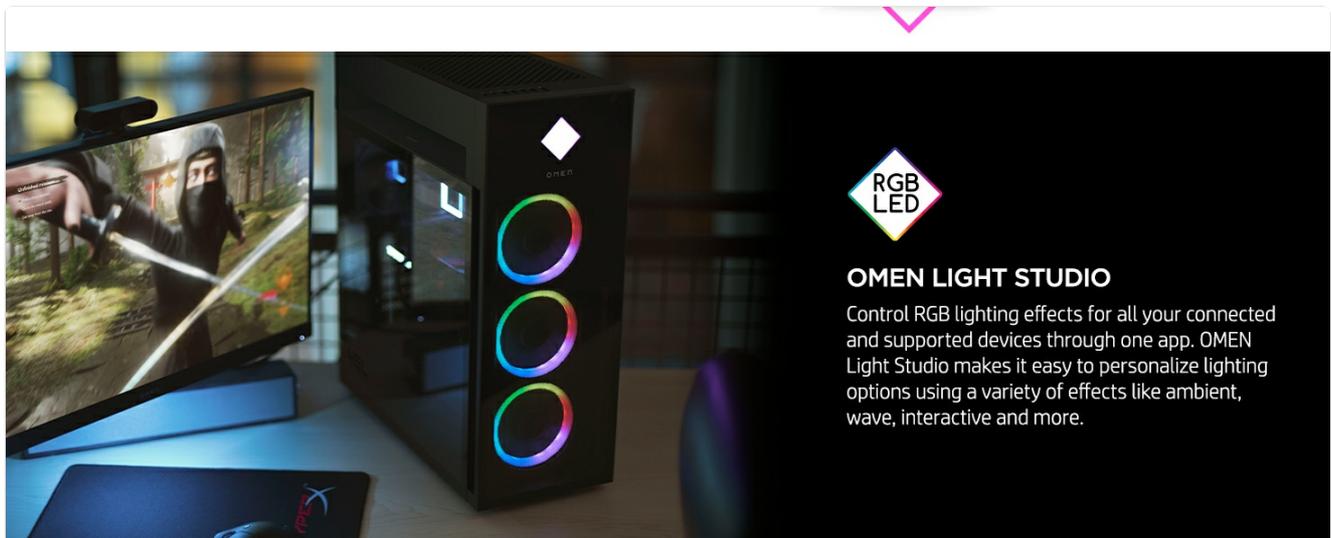

Figure 5: The OMEN Light Studio interface, illustrating how to customize the desktop's RGB lighting effects.

3.4 Microsoft 365

Enhance your productivity with Microsoft 365, offering powerful tools like Word, Excel, and PowerPoint. These applications are designed to help you create impressive documents, simplify data management, and deliver polished presentations.

Video 4: An official HP video highlighting the powerful tools available in Microsoft 365.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your HP OMEN 45L Gaming Desktop.

4.1 Cooling System

The OMEN 45L features the patented OMEN CRYO CHAMBER cooling system, which channels fresh, cold air from the surrounding environment to cool the CPU. Ensure that the desktop's vents are clear of obstructions to maintain efficient cooling.

Figure 6: Illustration of the Tempest Cooling Airflow and OMEN CRYO CHAMBER for efficient thermal management.

4.2 Cleaning

Periodically clean the exterior of the desktop with a soft, dry cloth. Use compressed air to clear dust from vents and fan areas. Avoid using liquid cleaners directly on components.

5. TROUBLESHOOTING

If you encounter issues with your desktop, consider the following basic troubleshooting steps:

- **No Power:** Ensure all power cables are securely connected to the desktop and the power outlet. Check if the power outlet is functional.
- **No Display:** Verify that the monitor is correctly connected to the graphics card ports and that the monitor is powered on. Try a different display cable or monitor if available.
- **System Unresponsive:** Perform a hard restart by holding down the power button until the system shuts off, then power it back on.
- **Software Issues:** Ensure your operating system and drivers are up to date. Consider running system diagnostics or restoring to a previous system restore point if recent changes caused the issue.

6. SPECIFICATIONS

Component	Specification
Processor	13th Generation Intel Core i9-13900KF (5.8 GHz)

RAM	16 GB DDR5 (5200 MHz)
Storage	1 TB PCIe NVMe M.2 SSD
Graphics Card	NVIDIA GeForce RTX 4070 Ti (Dedicated)
Operating System	Windows 11 Home
Wireless Connectivity	802.11ax, Bluetooth
Model Number	7Y7S1AA#ABA
Dimensions (LxWxH)	8.03 x 18.5 x 21.85 inches
Item Weight	49.8 pounds

7. WARRANTY AND SUPPORT

This HP computer comes with a 1-year limited hardware warranty. Additionally, 1-year limited technical support for software and initial setup is provided with 24-hour, 7 days a week web support when shipped from and sold by Amazon.ca.
For further assistance, please refer to the official HP support website or contact customer service.