

HP GT22-0182

HP OMEN 45L Gaming Desktop GT22-0182 User Manual

Model: GT22-0182

1. INTRODUCTION AND OVERVIEW

The HP OMEN 45L Gaming Desktop GT22-0182 is engineered for high-performance gaming and demanding computing tasks. It features an AMD Ryzen 9 5900X processor, NVIDIA GeForce RTX 3080 Ti graphics, 32 GB of HyperX DDR4 RAM, and a 1 TB PCIe NVMe SSD. This desktop is designed with advanced cooling solutions, including the patented OMEN CRYO CHAMBER, to maintain optimal performance during extended use. It operates on Windows 11 Home, providing a modern and efficient user experience.



**PATENTED COOLING,
EXTREME PERFORMANCE.**

OMEN 45L GAMING DESKTOP

Image: HP OMEN 45L Gaming Desktop highlighting patented cooling and extreme performance capabilities.

2. UNBOXING AND INITIAL SETUP

2.1 What's in the Box

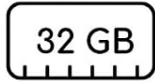
Upon unboxing your HP OMEN 45L Gaming Desktop, you should find the following components:

- OMEN by HP 45L Gaming Desktop GT22-0182

- Power Cable
- Documentation (including this manual)

2.2 Connecting Peripherals

1. **Power Connection:** Connect the power cable to the desktop's power supply unit (PSU) at the rear and then to a wall outlet.
2. **Monitor Connection:** Connect your monitor(s) to the graphics card's output ports (HDMI, DisplayPort) at the rear of the desktop.
3. **Keyboard and Mouse:** Connect your keyboard and mouse to the available USB ports.
4. **Network Connection:** For wired internet, connect an Ethernet cable to the RJ-45 port. For wireless, ensure Wi-Fi is enabled in Windows settings.
5. **Audio Devices:** Connect headphones, speakers, or microphones to the appropriate audio jacks.

 AMD RYZEN™ 9 5900X PROCESSOR ◆ Whether you are playing the latest games, designing the next skyscraper, or crunching scientific data, this powerful processor can handle it all Entry Med High		 NVIDIA® GEFORCE RTX™ 3080 TI (12 GB GDDR6X DEDICATED MEMORY) ◆ Delivers the ultra performance that gamers crave, powered by Ampere—NVIDIA's 2nd gen RTX architecture Entry Med High	
PROCESSOR		GRAPHICS	
 1 TB PCIe® NVME™ M.2 SSD ◆ Get up to 10x faster performance than a traditional hard drive Entry Med High		 HYPERX® 32 GB DDR4 XMP RGB HEATSINK RAM (2 X 16 GB) ◆ With its higher bandwidth, everything from multi-tasking to playing games gets a performance boost Entry Med High	
STORAGE		MEMORY	

 49.82

**PATENTED COOLING,
EXTREME
PERFORMANCE.
OMEN 45L GAMING
DESKTOP**

1 TB

**1 TB PCIe® NVME™
M.2 SSD**

32 GB

**HYPERX® 32 GB DDR4 XMP
RGB HEATSINK RAM
(2 X 16 GB)**

Image: Front view of the HP OMEN 45L Gaming Desktop, showcasing its sleek design and front-facing RGB fans.

PORTS

Rear ports:

2 SuperSpeed USB Type-A
2 USB 2.0 Type-A
2 USB Type-C®
RJ-45
HDMI
3 DisplayPort™

1 Headphone jack
2 Microphone jack
3 SuperSpeed USB Type-A
4 USB 2.0 Type-A



Image: Rear view of the HP OMEN 45L Gaming Desktop, illustrating the available connectivity ports including USB, HDMI, DisplayPort, and Ethernet.

3. OPERATING YOUR DESKTOP

3.1 Powering On and Off

Press the power button located on the top front of the desktop to turn it on. To shut down, use the standard Windows 11 shutdown procedure (Start Menu > Power > Shut down).

3.2 Key Hardware Components

- **Processor:** AMD Ryzen 9 5900X for high-speed processing.
- **Graphics Card:** NVIDIA GeForce RTX 3080 Ti for exceptional visual performance.
- **Memory:** 32 GB HyperX DDR4 RAM for efficient multitasking.
- **Storage:** 1 TB PCIe NVMe SSD for fast boot times and application loading.



**THE
ULTIMATE
PLAY**

Built with dedicated 2nd gen RT Cores and 3rd gen Tensor Cores, streaming multiprocessors and G6X memory for an amazing gaming experience.



Image: Side view of the HP OMEN 45L Gaming Desktop, revealing the internal components such as the CPU cooler, RAM, and graphics card.

3.3 OMEN Gaming Hub and Light Studio

The OMEN Gaming Hub software allows you to monitor system performance, manage game settings, and customize the desktop's RGB lighting effects. The OMEN Light Studio provides granular control over lighting, enabling personalized ambient, wave, or interactive effects.

OMEN GAMING HUB



Your one place for everything to make your gaming experience better. From software enhancements to hardware control, and live services, OMEN Gaming Hub elevates play in an easy and simple way.

Monitor sold separately.

Image: A monitor displaying the OMEN Gaming Hub interface, which allows users to manage system performance, game settings, and lighting effects.

4. MAINTENANCE

4.1 Cooling System (OMEN CRYO CHAMBER)

The OMEN CRYO CHAMBER is a patented liquid-cooled system designed to channel fresh, cold air from the surrounding environment to cool the CPU, ensuring stable performance. Regularly check for dust accumulation on external vents and clean them to maintain optimal airflow.

4.2 Tool-less Upgradeability

The HP OMEN 45L is designed for easy, tool-less access to internal components, facilitating upgrades and maintenance.

Refer to the detailed instructions in the full service manual for specific component replacement procedures.



OMEN CRYO CHAMBER™

The patented OMEN CRYO CHAMBER™ cooling system enables the liquid cooler radiator to channel fresh, cold air from the surrounding environment to cool down the CPU.



Image: Diagram showcasing the Tempest Cooling and OMEN CRYO CHAMBER system, which optimizes airflow for efficient thermal management.

5. TROUBLESHOOTING

If you encounter issues with your HP OMEN 45L Gaming Desktop, consider the following common troubleshooting steps:

- **Performance Stuttering/Lag:** Ensure all drivers, especially graphics drivers, are up to date. Check for background applications consuming excessive resources. A complete system reset or reinstallation of Windows 11 may resolve persistent software conflicts.
- **Overheating:** Verify that the desktop's vents are clear of obstructions. Ensure the OMEN CRYO CHAMBER is functioning correctly. Monitor temperatures using OMEN Gaming Hub.
- **Display Issues:** Confirm monitor cables are securely connected to the graphics card. Update graphics drivers. Test with a different monitor or cable if possible.
- **Connectivity Problems:** For wired connections, check the Ethernet cable and router. For Wi-Fi, ensure the wireless adapter is enabled and connected to the correct network.

6. SPECIFICATIONS

Feature	Detail
Brand	HP
Model Number	GT22-0182
Operating System	Windows 11 Home
CPU Model	AMD Ryzen™ 9 5900X Processor
CPU Speed	4.8 GHz
Graphics Coprocessor	NVIDIA GeForce RTX 3080 Ti
Graphics Card RAM	12 GB

RAM Memory Installed	32 GB DDR4
Memory Storage Capacity	1 TB PCIe® NVMe™ M.2 Solid State Drive
Cooling Method	Cryo Chamber and Liquid Cooling
Total USB Ports	8
Video Output	HDMI, DisplayPort
Item Dimensions	8.03 x 18.5 x 21.85 inches
Model Year	2023

7. WARRANTY AND SUPPORT

The HP OMEN 45L Gaming Desktop comes with a 1-year limited hardware warranty and 1-year limited technical support for software and initial setup. HP provides 24-hour, 7 days a week web support. For detailed warranty information and support resources, please visit the official HP support website or refer to the documentation included with your product.

7.1 Official Product Video

Video: An official HP video showcasing the HP OMEN 45L Gaming Desktop, highlighting its design and features.

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

