

## HP GT22-3000t

# HP OMEN 45L GT22 AI Gaming Desktop User Manual

Comprehensive instructions for setup, operation, and maintenance of your HP OMEN 45L GT22 AI Gaming Desktop.

## 1. PRODUCT OVERVIEW

The HP OMEN 45L GT22 AI Gaming Desktop is a high-performance system designed for demanding gaming and computing tasks. It features advanced components and a robust cooling system to ensure optimal performance and stability.





Figure 1: Front view of the HP OMEN 45L GT22 AI Gaming Desktop with the bundled Machenike K500B RGB Keyboard.

This desktop is equipped with an Intel Core Ultra 9 285K Processor, an NVIDIA GeForce RTX 4080 Super graphics card, 32GB DDR5 RAM, and a 2TB PCIe M.2 SSD, providing exceptional speed and storage capacity.

## 2. SETUP GUIDE

### 2.1 Unboxing and Initial Inspection

Carefully remove the desktop and all accessories from the packaging. Inspect for any visible damage. Ensure all components listed in the packing slip are present.

### 2.2 Connecting Peripherals

1. **Power Connection:** Connect the power cord to the desktop's power supply unit and then to a grounded electrical outlet.
2. **Display Connection:** Connect your monitor to the **NVIDIA GeForce RTX 4080 Super** graphics card

ports (DisplayPort or HDMI) located at the rear of the desktop. *Do not connect your display to the motherboard's integrated graphics ports.*

3. **Keyboard and Mouse:** Connect the bundled Machenike K500B RGB Keyboard and your mouse to any available USB ports on the desktop.
4. **Internet Connection:** For a wired connection, connect an Ethernet cable to the RJ-45 port on the rear of the desktop. For wireless, ensure Wi-Fi 6 is enabled in Windows settings after initial setup.
5. **Audio:** Connect headphones or speakers to the headphone/microphone combo jack on the top panel or the audio-out port on the rear.

## — PORTS SERIOUS OUTPUT

2 USB TYPE-A 5GBPS SIGNALING RATE (HP SLEEP AND CHARGE)

1 HEADPHONE/MICROPHONE COMBO

1 MICROPHONE



Figure 2: Top panel ports including USB Type-A, headphone/microphone combo, and microphone.

### 2.3 First Boot-Up

Press the power button located on the top panel of the desktop. The system will initiate the Windows 11 Home setup process. Follow the on-screen instructions to complete the operating system configuration.

## 3. OPERATING YOUR DESKTOP

Your HP OMEN 45L GT22 is pre-installed with Windows 11 Home, offering a modern and efficient user

experience. The powerful Intel Core Ultra 9 processor and NVIDIA RTX 4080 Super GPU are optimized for high-fidelity gaming and demanding applications.



**Windows 11 Home**

Intel Core  
**Ultra 9 285K**

Up to **5.70 GHz**  
**285K** Processor  
**36M** Cache

**NVIDIA GeForce RTX 4080 Super**

**DDR5**  
Up to **128GB DDR5** SODIMM

Up to **4TB PCIe** M.2 SSD

**Wi-Fi 6 & Bluetooth**

**dts**  
**DTS: X ULTRA TECHNOLOGY**  
By producing authentic, spatially accurate 3D sound through any headset, this technology offers specially tuned audio modes for different game types.

Figure 3: Overview of key specifications including CPU, GPU, RAM, SSD, and connectivity.

### 3.1 Key Features

- **Processor:** Intel Core Ultra 9 285K (up to 5.70 GHz, 24 cores, 24 threads).
- **Graphics:** NVIDIA GeForce RTX 4080 Super (16 GB GDDR6X dedicated).
- **Memory:** 32GB DDR5-5600MHz RAM for smooth multitasking.
- **Storage:** 2TB PCIe M.2 SSD for rapid boot times and data access.
- **Cooling System:** Liquid Cooling with patented OMEN Cryo Chamber for optimal thermal management.
- **Wireless Connectivity:** Integrated Wi-Fi 6 and Bluetooth.
- **Audio:** DTS: X Ultra Technology for immersive sound.



# BEHOLD, THE CHILLEST MACHINE IN GAMING

EQUIPPED WITH THE PATENTED OMEN CRYO CHAMBER AND LCD LIQUID COOLING SYSTEM FOR MAXIMUM COOLING



Figure 4: Interior view showcasing the liquid cooling system and internal components.

## 3.2 Ports and Connectivity

The desktop offers a comprehensive array of ports for all your peripheral needs:

- **Top Ports:**

- 2x USB Type-A (5Gbps)
- 2x USB 2.0 Type-A
- 1x Headphone/Microphone Combo
- 1x Microphone

- **Rear Ports:**

- 1x USB Type-C (Thunderbolt 4 - 40Gbps)
- 1x USB Type-C (10Gbps)
- 2x USB Type-A (5Gbps)
- 4x USB 2.0 Type-A
- 1x Microphone

- 1x RJ-45 (Ethernet)
- 1x Audio-in
- 1x Audio-out

## 4. MAINTENANCE AND UPGRADABILITY

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Regular maintenance ensures the longevity and optimal performance of your HP OMEN 45L GT22. Keep the desktop in a well-ventilated area and ensure dust filters (if present) are cleaned periodically.



Figure 5: Exploded view illustrating the modular design and potential for component upgrades.

The OMEN 45L is designed for easy toolless access, facilitating upgrades and maintenance. Components such as RAM and storage can be expanded to meet future needs. The system supports up to 128GB DDR5-5600MHz RAM and up to 4TB PCIe M.2 SSD + 4TB 3.5" HDD.

## 5. TROUBLESHOOTING

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If you encounter any issues with your HP OMEN 45L GT22, consider the following basic troubleshooting

steps:

- **No Power:** Ensure the power cord is securely connected to both the desktop and the electrical outlet. Verify the power switch on the PSU (if present) is in the 'On' position.
- **No Display:** Confirm your monitor is connected to the dedicated graphics card ports, not the motherboard ports. Check all display cable connections.
- **System Slowdown:** Close unnecessary applications. Ensure drivers are up to date. Check for sufficient free storage space.
- **Overheating:** Ensure the desktop is in a well-ventilated area. Clean any dust from the vents and fans.

For more advanced troubleshooting or persistent issues, refer to the official HP support website or contact customer service.

## 6. SPECIFICATIONS

Feature	Detail
Brand	HP
Model Name	GT22-3000t
Operating System	Windows 11 Home
Processor	Intel Core Ultra 9 285K (up to 5.7 GHz, 24 cores)
Graphics Coprocessor	NVIDIA GeForce RTX 4080 Super (16 GB GDDR6X)
RAM	32 GB DDR5-5600MHz
Hard Drive	2 TB SSD (PCIe M.2)
Wireless Type	Wi-Fi 6, Bluetooth
USB 2.0 Ports	6
USB 3.0 Ports	6
Dimensions (LxWxH)	21.85 x 8.03 x 18.5 inches
Item Weight	49.8 pounds
Color	Black
Included Components	HP OMEN 45L GT22 Gaming Desktop, Machenike K500B RGB Keyboard

## 7. WARRANTY AND SUPPORT

The original seal has been opened solely for upgrading purposes. A 1-year warranty on the upgraded RAM/SSD is provided by PConline US. The remaining components retain the original 1-year manufacturer's warranty from HP.

For technical support, warranty claims, or further assistance, please refer to the documentation included with your purchase or visit the official HP support website.

