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- › [HP](#) /
- › [HP Omen 45L GT22 Gaming Desktop User Manual](#)

## HP GT22

# HP Omen 45L GT22 Gaming Desktop User Manual

Model: GT22

## 1. INTRODUCTION

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This manual provides essential information for setting up, operating, maintaining, and troubleshooting your HP Omen 45L GT22 Gaming Desktop. Please read this manual thoroughly before using your new system to ensure proper functionality and longevity.



Figure 1: HP Omen 45L GT22 Gaming Desktop. This image displays the front and side of the desktop tower, highlighting its design and RGB lighting elements.

## 2. WHAT'S IN THE BOX

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Verify that all components are present in the packaging:

- HP Gaming Tower Desktop
- Thunderbolt KG3089R Gaming Keyboard
- Power Cable
- Documentation (this manual, warranty information)

## 3. SETUP GUIDE

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### 3.1 Unpacking and Placement

1. Carefully remove the desktop and all accessories from the packaging.
2. Place the desktop on a stable, flat surface with adequate ventilation around all sides. Avoid placing it in

enclosed spaces or near heat sources.

### 3.2 Connecting Peripherals

Connect your monitor, keyboard, mouse, and other devices to the appropriate ports on the desktop.



Figure 2: Rear Ports of the HP Omen 45L GT22. This image illustrates the various input/output ports available on the back of the desktop, including USB, HDMI, DisplayPort, and Ethernet.

- **Monitor:** Connect your monitor using an HDMI or DisplayPort cable to the dedicated graphics card ports.
- **Keyboard and Mouse:** Connect the Thunderobot KG3089R Gaming Keyboard and your mouse to any available USB Type-A ports.
- **Network:** For a wired connection, connect an Ethernet cable to the RJ-45 port. For wireless, ensure Wi-Fi antennas are connected (if external) or that the internal Wi-Fi is enabled during software setup.
- **Power:** Connect the power cable to the desktop's power supply port and then to a power outlet.

### 3.3 Initial Power-On and Operating System Setup

1. Press the power button on the front of the desktop.

2. Follow the on-screen instructions to complete the Windows 11 Home operating system setup. This includes setting up your user account, network connection, and privacy settings.
3. Once Windows is set up, ensure all drivers are installed and updated. You can typically find driver updates through Windows Update or the HP support website.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Power Management

- **Power On:** Press the power button on the front of the desktop.
- **Shut Down:** Click the Start button in Windows, then Power > Shut down.
- **Restart:** Click the Start button in Windows, then Power > Restart.
- **Sleep:** Click the Start button in Windows, then Power > Sleep.

### 4.2 Understanding Your System Components

Your HP Omen 45L GT22 is equipped with high-performance components for demanding tasks and gaming.

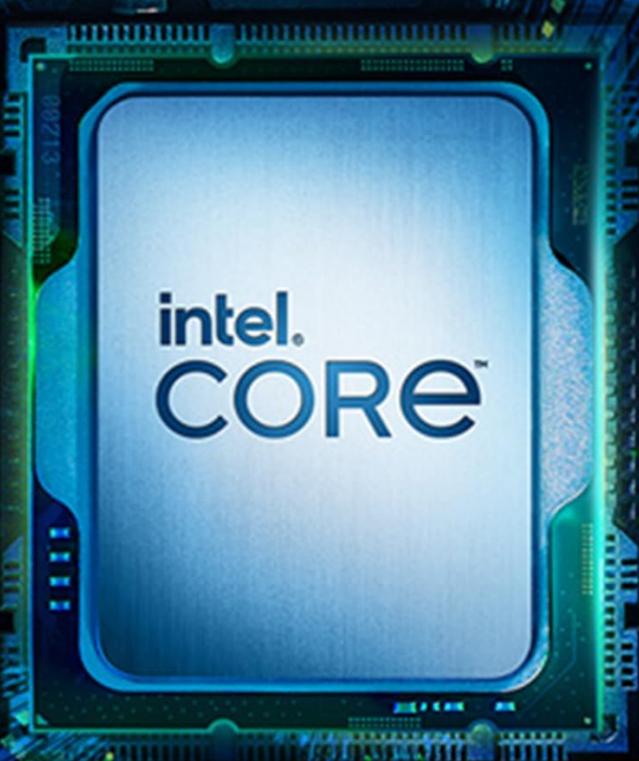
# INTEL CORE ULTRA 9 285K

Be everything you want to be, in-game and out with optimized performance and new features. Play harder and work smarter with Intel Core Processors.

**30 MB**  
cache

**20**  
cores

**20**  
threads



intel.  
**CORE™**

The image shows a close-up of the Intel Core Ultra 9 285K processor. The processor is a square chip with a blue and white color scheme. The Intel logo and 'CORE™' are printed on the top surface. The chip is mounted on a green printed circuit board (PCB) with various components and traces visible. The background is dark with blue and green light effects, suggesting a high-tech or gaming environment.

Figure 3: Intel Core Ultra 9 285K Processor. This image highlights the specifications of the Intel Core Ultra 9 285K CPU, including its cache, cores, and threads.

- **Processor:** Intel Core Ultra 9 285K (24 Cores, 24 Threads, 36MB L3 Cache, up to 5.70GHz). This powerful CPU handles complex computations and multitasking.
- **Graphics Card:** NVIDIA GeForce RTX 5080 (16GB GDDR7). This dedicated GPU is responsible for rendering high-fidelity graphics for gaming and creative applications.
- **Memory:** 32GB DDR5 RAM. High-speed memory ensures smooth operation when running multiple applications simultaneously.
- **Storage:** 2TB PCIe NVMe M.2 SSD. Provides fast boot times and rapid data access for your operating system and applications.



The advertisement features a dark background with green diagonal stripes. At the top, the text "NVIDIA GEFORCE RTX 5080" is displayed in large white font. Below it, a tagline reads "Experience ultra-high performance gaming, incredibly detailed virtual worlds, unprecedented productivity, and new ways to create." The central focus is a vertical image of the RTX 5080 graphics card, which has a white diamond-shaped logo at the top with the word "OMEN" underneath. The card's three fans are illuminated with a vibrant rainbow light effect. To the left of the card, there are two smaller images: the top one shows a character in a futuristic, industrial environment with a "GEFORCE RTX" logo in the bottom left corner; the bottom one is a close-up of a character's face wearing a helmet, with the text "NVIDIA DLSS 3" below it. In the bottom right corner of the advertisement, the "NVIDIA GEFORCE RTX" logo is present.

Figure 4: NVIDIA GeForce RTX 5080 Graphics. This image details the capabilities of the NVIDIA GeForce RTX 5080, emphasizing its performance for gaming and content creation.

### 4.3 RGB Light Studio

The HP Omen 45L GT22 features customizable RGB lighting. Use the pre-installed Omen Gaming Hub software to personalize the lighting effects on your desktop's fans and chassis. Refer to the Omen Gaming Hub's in-app help for

detailed instructions on customization options.



Figure 5: Gaming Setup with HP Omen 45L GT22. This image shows the desktop integrated into a complete gaming station, including a monitor, keyboard, and mouse, demonstrating its aesthetic appeal.

## 5. MAINTENANCE

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### 5.1 Cleaning Your Desktop

- **Exterior:** Use a soft, lint-free cloth to wipe down the exterior surfaces. For stubborn marks, slightly dampen the cloth with water. Avoid harsh chemicals.
- **Ventilation:** Regularly check and clean the ventilation grilles and fan openings to prevent dust buildup, which can impede airflow and cause overheating. Use compressed air to gently clear dust from vents. Ensure the system is powered off and unplugged before cleaning.

### 5.2 Software Updates

Keep your operating system and drivers updated to ensure optimal performance and security.

- **Windows Updates:** Regularly check for and install updates via Windows Settings > Update & Security > Windows Update.
- **Driver Updates:** Update graphics drivers (NVIDIA GeForce Experience) and other system drivers (HP Support Assistant or HP website) periodically.

### 5.3 Data Backup

Regularly back up your important data to an external drive or cloud storage to prevent data loss.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter. For more complex problems, contact HP Support.

- **No Power:**
  - Ensure the power cable is securely connected to both the desktop and the power outlet.
  - Verify the power outlet is functional by plugging in another device.
  - Check the power supply unit (PSU) switch on the back of the desktop (if present) is in the 'ON' position.
- **No Display on Monitor:**
  - Confirm the monitor is powered on and connected to the graphics card's HDMI or DisplayPort output, not the motherboard's integrated graphics ports (if applicable).
  - Try a different cable or monitor if available.
  - Ensure the correct input source is selected on your monitor.
- **System is Slow or Unresponsive:**
  - Close unnecessary applications running in the background.
  - Check Task Manager (Ctrl+Shift+Esc) for high CPU, RAM, or disk usage.
  - Ensure Windows and drivers are up to date.
  - Run a virus/malware scan.
- **Network Connectivity Issues:**
  - For wired connections, ensure the Ethernet cable is properly connected and the router/modem is working.
  - For Wi-Fi, check if Wi-Fi is enabled in Windows settings and ensure you are connected to the correct network with the right password.
  - Restart your router/modem and the desktop.

## 7. SPECIFICATIONS

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| Feature      | Detail   |
|--------------|--|
| Model Number | GT22   |
| Processor    | Intel Core Ultra 9 285K (24 Cores, 24 Threads, 36MB L3 Cache, 3.20GHz base, up to 5.70GHz max turbo) |
| Graphics     | NVIDIA GeForce RTX 5080 (16GB GDDR7)   |
| RAM          | 32GB DDR5 (4800 MHz)   |

| Feature               | Detail   |
|-----------------------|--|
| Storage               | 2TB PCIe NVMe M.2 SSD  |
| Operating System      | Windows 11 Home  |
| Wireless Connectivity | Wi-Fi 6 (802.11ax), Bluetooth  |
| Ports (Front)         | 2 x USB Type-A 5Gbps (HP Sleep and Charge), 2 x USB 2.0 Type-A, 1 x headphone/microphone combo, 1 x microphone   |
| Ports (Rear)          | 1 x USB Type-C 10Gbps, 2 x USB Type-A 5Gbps, 4 x USB 2.0 Type-A, 1 x 3.5 mm audio jack, 1 x RJ-45, 1 x Thunderbolt 4 with USB Type-C 40Gbps, 1 x HDMI, 3 x DisplayPort, 5 x Audio Port |
| Dimensions (LxWxH)    | 21.85 x 18.5 x 8.03 inches   |
| Weight                | 49.8 pounds  |
| Color                 | Black  |

## 8. WARRANTY AND SUPPORT

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For warranty information, please refer to the documentation included with your product or visit the official HP support website. HP provides various support resources, including drivers, manuals, and troubleshooting guides.

**HP Support Website:** [support.hp.com](https://support.hp.com)

When contacting support, please have your product model number (GT22) and serial number ready.