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› HP OMEN Gaming Desktop Computer 880-191 User Manual

HP 880-191

HP OMEN Gaming Desktop Computer 880-191 User Manual

Model: 880-191

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1. INTRODUCTION

The HP OMEN Gaming Desktop Computer 880-191 is engineered for high-performance gaming. It features a cutting-edge design, advanced hardware, and supports easy upgradability to meet the demands of modern gaming titles. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your desktop computer.

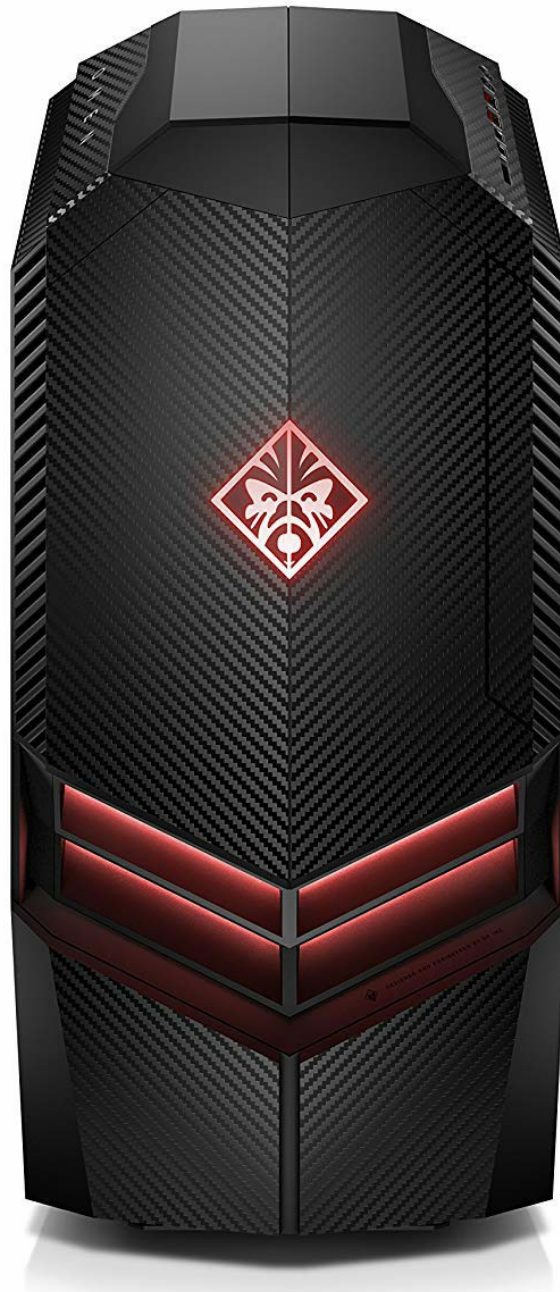


Figure 1: Front view of the HP OMEN Gaming Desktop Computer 880-191.

2. SETUP

2.1 Unpacking

Carefully remove the desktop computer and all accessories from the packaging. Ensure all components listed in the packing list are present.

2.2 Connecting Peripherals

1. **Monitor:** Connect your monitor to one of the available video output ports (HDMI, DisplayPort) on the graphics card.
2. **Keyboard and Mouse:** Connect the HP USB wired keyboard and wired optical mouse to any available USB ports. The desktop features 2 USB 3.0 (top), 2 USB 3.0 Type-C (top), 4 USB 3.0 (rear), and 2 USB 2.0 (rear) ports.
3. **Audio:** Connect headphones or speakers to the headphone/microphone combo jack or microphone jack on the top panel, or to the audio ports on the rear panel.

4. **Network:** Connect an Ethernet cable to the 10/100/1000 Base-T network port for a wired internet connection, or use the integrated Wi-Fi for wireless connectivity.

2.3 Power Connection

Connect the power cable to the power supply unit at the rear of the desktop, then plug the other end into a grounded electrical outlet.

2.4 Initial Boot-Up

Press the power button on the top of the desktop. Follow the on-screen instructions to complete the Windows 10 Home setup process.

3. OPERATING INSTRUCTIONS

3.1 OMEN Command Center

The HP OMEN Command Center software allows you to manage and optimize your system's performance. This includes controlling CPU overclocking settings and prioritizing network traffic to minimize latency during gaming.

3.2 Graphics Performance

Your desktop is equipped with an NVIDIA GeForce RTX 2080 Ti 11 GB dedicated graphics card, providing hyper-realistic graphics and high frame rates for demanding games.

3.3 Thermal Management

The system features advanced thermal cooling with all-around edge vents, a 120mm front fan, and liquid cooling to maintain optimal operating temperatures during intense usage.

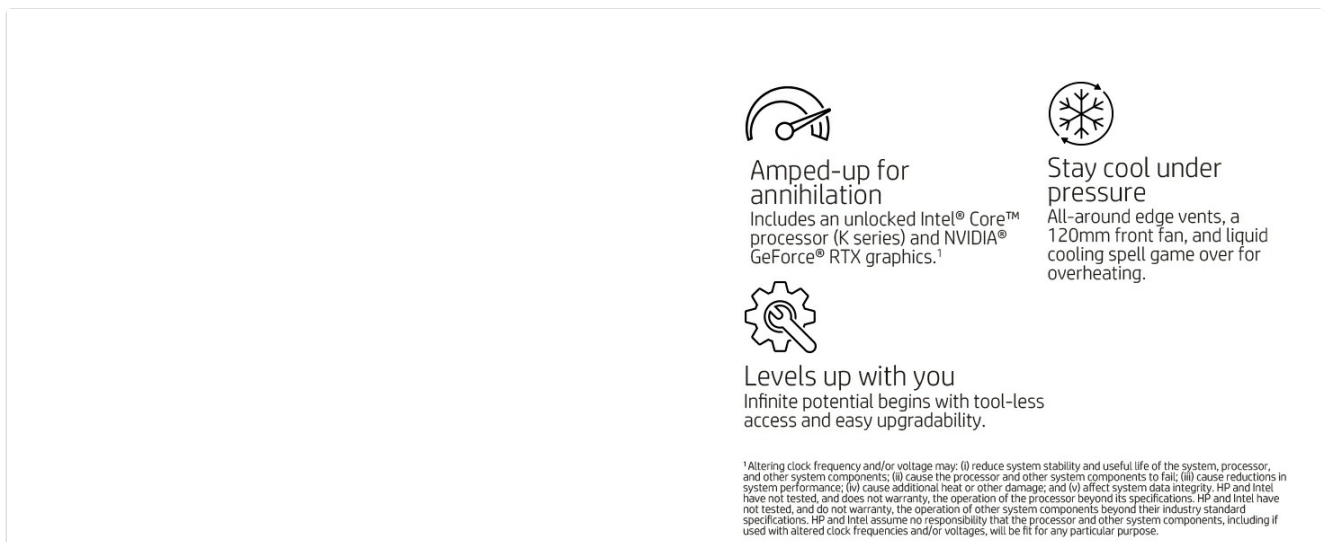


Figure 2: Internal view highlighting the liquid cooling system and fan for efficient thermal management.

4. MAINTENANCE & UPGRADES

4.1 Cleaning

Regularly clean the exterior of the desktop with a soft, dry cloth. Ensure vents are free from dust accumulation to maintain optimal airflow. For internal cleaning, it is recommended to consult a professional or refer to HP's official support resources.

4.2 Upgrading Components

The HP OMEN desktop is designed for easy upgradability with tool-less access to internal components. This allows for convenient installation of additional storage or memory.

- **Storage:** The system supports up to four 3.5-inch storage bays. It comes with a 2 TB 7200RPM SATA hard drive and a 512 GB SSD.
- **Memory (RAM):** The desktop includes 16 GB DDR4-2666 SDRAM and is upgradable to 32 GB.



Figure 3: Side panel removed, demonstrating tool-less access for component upgrades.

5. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed troubleshooting, refer to the HP support website or contact customer service.

- **No Power:** Ensure all power cables are securely connected to the desktop and the electrical outlet. Verify the outlet is functional.
- **No Display:** Check that the monitor is properly connected to the graphics card and powered on. Try a different video cable or monitor if available.
- **System Slowdown:** Use the OMEN Command Center to monitor system performance. Ensure sufficient airflow and check for excessive background processes. Consider upgrading RAM if frequently running out of memory.
- **Peripheral Issues:** Ensure keyboard, mouse, or other peripherals are correctly plugged into the appropriate USB or audio ports. Try different ports if issues persist.

6. SPECIFICATIONS

| Feature | Detail |
|------------------|--|
| Brand | HP |
| Model Number | 880-191 |
| Operating System | Windows 10 Home |
| CPU Model | Intel Core i7-9700K (8-Core, 3.6 GHz, up to 4.9 GHz) |

| Feature | Detail |
|-----------------------|---|
| Graphics Card | NVIDIA GeForce RTX 2080 Ti (11 GB GDDR6 dedicated memory) |
| RAM Memory | 16 GB DDR4-2666 SDRAM (upgradable to 32 GB) |
| Storage | 2 TB 7200RPM SATA Hard Drive, 512 GB SSD |
| Cooling Method | Liquid Cooling, 120mm Front Fan |
| Ports (Top) | Headphone/Microphone combo, Microphone jack, 2 USB 3.0, 2 USB 3.0 Type-C |
| Ports (Rear) | 4 USB 3.0, 2 USB 2.0, HDMI, 3 DisplayPort, Virtual Link, 10/100/1000 Base-T Network |
| Wireless Connectivity | Wi-Fi (802.11a/b/g), Bluetooth |
| Dimensions (HxWxD) | 17.41 x 7.56 x 16.43 inches |
| Optical Drive | DVD-RW |

7. WARRANTY & SUPPORT

Your HP OMEN Gaming Desktop Computer 880-191 comes with a one-year limited hardware warranty. This warranty includes 24-hour, 7 days a week web support.

For further assistance, please visit the official HP support website or contact HP customer service.

8. PRODUCT OVERVIEW VIDEO

Your browser does not support the video tag.

Video 1: Official overview of the OMEN by HP Gaming Desktop Computer, showcasing its design, features, and upgradability.