

Dell ACT1250

Alienware Aurora [2025] Gaming Desktop User Manual

Model: ACT1250

1. INTRODUCTION

Welcome to the Alienware Aurora [2025] Gaming Desktop user manual. This guide provides essential information for setting up, operating, maintaining, and troubleshooting your new high-performance gaming system. Please read this manual thoroughly to ensure optimal performance and longevity of your device.

The Alienware Aurora [2025] is engineered for elite-level gaming and demanding creative tasks, featuring the Intel Core Ultra 9 285K processor and NVIDIA GeForce RTX 5080 graphics.

2. WHAT'S IN THE BOX

Verify that all components are present before proceeding with setup:

- Alienware Aurora [2025] Gaming Desktop
- Power Cable
- Dell Wireless Keyboard
- Dell Wireless Mouse
- 4-in-1 Docking Hub
- Documentation (Quick Start Guide, Warranty Information)



Image: The Alienware Aurora [2025] Gaming Desktop shown with its included accessories: a Dell wireless keyboard, Dell wireless mouse, and a 4-in-1 docking hub. The desktop itself is black with purple RGB lighting accents.

3. SETUP INSTRUCTIONS

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. Ensure there is clear space around the air intake (front/side) and exhaust (top/rear) vents.
3. Avoid placing the desktop in direct sunlight or near heat sources.

3.2 Connecting Peripherals

1. **Monitor:** Connect your monitor to the graphics card ports (HDMI or DisplayPort) on the rear of the desktop.
2. **Keyboard and Mouse:** Connect the wireless keyboard and mouse via their respective USB dongles to any available USB ports.
3. **Other Peripherals:** Connect any other devices (e.g., speakers, external drives) to the appropriate ports.

Optimized airflow strategy

The side hexagonal array, top surface exhaust, and the front stadium intake all provide significantly larger pathways for ambient air to enter and heat to be exhausted.



240mm heat exchanger

The 240mm heat exchanger, available on the optional CPU liquid cooling, heightens thermal resistance, ensuring temperatures stay consistently low during longer gaming sessions.

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Image: Detailed view of the front and rear ports on the Alienware Aurora [2025] Gaming Desktop. Front ports include a global headset jack, USB 3.2 Gen 1 Type-A, and USB 3.2 Gen 2 Type-C. Rear ports include line in/out, S/PDIF, USB 4 Type-C, USB 3.2 Gen 1 Type-A, USB 2.0 Type-A, and RJ-45 Killer E3100G 2.5 Gigabit Ethernet.

3.3 Power Connection

1. Connect the power cable to the power port on the rear of the desktop.
2. Plug the other end of the power cable into a grounded electrical outlet.

4. OPERATING INSTRUCTIONS

4.1 First Boot and Windows Setup

1. Press the power button located on the front of the desktop.
2. Follow the on-screen instructions to complete the Windows 11 Pro setup. This includes selecting your region, language, creating a user account, and connecting to a network.
3. Your Microsoft Office Suite (lifetime license) is either pre-installed and activated or provided with an activation key. Follow the instructions provided with your system to activate Office if necessary. **Do not install Office 365, as it may conflict with your lifetime license.**

4.2 Basic Usage

- **Power On/Off:** Press the power button to turn on. To shut down, click Start > Power > Shut down in Windows.
- **Restart:** Click Start > Power > Restart.
- **Sleep:** Click Start > Power > Sleep.

5. KEY FEATURES AND COMPONENTS

5.1 Processor and Graphics

Your Alienware Aurora [2025] is equipped with an Intel Core Ultra 9 285K processor (24-Core) and an NVIDIA GeForce RTX 5080 GDDR7 graphics card, providing exceptional performance for gaming and demanding applications.

Game changing graphics

Step into the future of gaming and creation with the NVIDIA® GeForce RTX 50 Series, powered by NVIDIA Blackwell architecture. Designed to push boundaries, this GPU lineup delivers unparalleled AI performance and jaw-dropping graphics fidelity – perfect for those who demand the extraordinary.



Intel® Core
Ultra 9



NVIDIA® GeForce
RTX 5080



Image: The Alienware Aurora [2025] Gaming Desktop with visual overlays emphasizing the Intel Core Ultra 9 processor and NVIDIA GeForce RTX 5080 graphics card, illustrating its powerful gaming capabilities.

5.2 Cooling System

The system features a premium 240mm liquid cooling system and optimized airflow for efficient heat dissipation, ensuring stable performance during extended use.

Ports and slots



Front Ports

- ❶ 1x Global headset jack
- ❷ 2x USB 3.2 Gen 1 (5 Gbps) Type-A port
- ❸ 1x USB 3.2 Gen 1 (5 Gbps) Type-A port with PowerShare technology
- ❹ 1x USB 3.2 Gen 2 (10 Gbps) Type-C® port with PowerShare technology

Rear Ports

- ❺ 1x Line In
- ❻ 1x SPDIF Digital Output (TOSLINK)
- ❼ 1x Line Out
- ❽ 1x USB 4 (20 Gbps) Type-C port
- ❾ 2x USB 3.2 Gen 1 (5 Gbps) Type-A port
- ❿ 2x USB 2.0 Type-A ports with Smart Power technology
- ⓫ 1x USB 3.2 Gen 2 (10 Gbps) Type-C® port
- ⓬ 1x RJ-45 Killer™ E3100G 2.5 Gigabit Ethernet

Image: An internal view of the Alienware Aurora [2025] Gaming Desktop, showcasing the optimized airflow strategy and the 240mm heat exchanger for liquid cooling, designed to maintain low temperatures and quiet operation.

5.3 Memory and Storage

Equipped with 64GB DDR5 RAM and a 2TB SSD, this desktop offers fast loading times and smooth multitasking. Dual M.2 slots allow for future storage expansion up to 4TB.

5.4 Connectivity

Integrated WiFi 7 provides high-speed wireless connectivity. A variety of USB ports (USB 2.0, USB 3.0, USB 3.2 Gen 1, USB 3.2 Gen 2, USB 4 Type-C) and 2.5 Gigabit Ethernet ensure comprehensive connectivity options.

6. MAINTENANCE

6.1 Cleaning

- **Exterior:** Use a soft, damp cloth to clean the exterior surfaces. Avoid abrasive cleaners.
- **Vents:** Periodically use compressed air to clear dust from the air intake and exhaust vents to maintain optimal airflow.
- **Internal Components:** For internal cleaning, it is recommended to consult a professional or refer to Dell's official service guidelines.

6.2 Software Updates

- Regularly update Windows 11 Pro through the Settings app.
- Keep your NVIDIA graphics drivers updated via the GeForce Experience application or NVIDIA's official website.
- Check Dell's official support website for BIOS and other driver updates specific to your Alienware Aurora model.

7. TROUBLESHOOTING

7.1 No Power

- Ensure the power cable is securely connected to both the desktop and the electrical outlet.
- Verify the electrical outlet is functional by plugging in another device.
- Check the power supply unit (PSU) switch on the rear of the desktop, if present, to ensure it is in the 'ON' position.

7.2 No Display

- Confirm the monitor is powered on and correctly connected to the graphics card ports (not the motherboard's integrated graphics ports, if any).
- Try a different display cable or monitor if available.
- Ensure the correct input source is selected on your monitor.

7.3 System Overheating

- Ensure the desktop has adequate ventilation and is not obstructed.
- Clean dust from the air vents using compressed air.
- Monitor temperatures using system monitoring software. If temperatures remain high, contact support.

8. SPECIFICATIONS

Component	Detail
Brand	Dell (Alienware)
Model Number	ACT1250
Processor	Intel Core Ultra 9 285K (24-Core, up to 5.7GHz)
Graphics Card	NVIDIA GeForce RTX 5080 with 16GB GDDR7

RAM	64GB DDR5
Storage	2TB SSD (Dual M.2 slots, up to 4TB total)
Operating System	Windows 11 Pro
Wireless Connectivity	WiFi 7
Ethernet	2.5 Gigabit Ethernet
Weight	33.9 pounds
Dimensions	18.05 x 16.46 x 7.75 inches

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official Dell support website. Dell provides comprehensive support for Alienware products.

- **Online Support:** Visit [Dell Support](#) for drivers, manuals, and troubleshooting guides.
- **Technical Assistance:** Contact Dell technical support for assistance with hardware or software issues.

