Alienware AWAUR10-A886BLK-PUS

Alienware Aurora R10 Gaming Desktop User Manual

Brand: Alienware | Model: AWAUR10-A886BLK-PUS

1. INTRODUCTION AND OVERVIEW

The Alienware Aurora R10 Gaming Desktop is engineered to deliver exceptional performance for gaming and demanding applications. Featuring an AMD Ryzen 7 3700X processor, AMD Radeon RX 5700 XT graphics, and a robust storage configuration, this system provides a powerful computing experience. Its innovative design prioritizes efficient airflow and ease of access for upgrades.

Figure 1: Front view of the Alienware Aurora R10 Gaming Desktop, showcasing its distinctive design and front panel ports.

2. SETUP GUIDE

Follow these steps to set up your Alienware Aurora R10 Gaming Desktop:

1. **Unpacking:** Carefully remove the desktop from its packaging. Ensure all accessories, including the keyboard and mouse, are present.

2. **Placement:** 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. **Connect Peripherals:**
   - Connect your monitor(s) to the appropriate display ports on the graphics card (DisplayPort, HDMI).
   - Connect the included keyboard and mouse to the available USB ports.
   - Connect any other peripherals such as speakers, headphones, or external drives.

4. **Power Connection:** Connect the power cable to the power port on the rear of the desktop and then to a grounded electrical outlet.

5. **Initial Power On:** Press the power button located on the front of the desktop. The system will boot into Windows 10 Home. Follow the on-screen instructions for initial setup.

AURORA
R10

S/PDIF

Figure 2: Rear view of the Alienware Aurora R10, illustrating the various connectivity ports for peripherals and power.

3. OPERATING INSTRUCTIONS

Your Alienware Aurora R10 comes pre-installed with Windows 10 Home, providing a familiar and intuitive operating environment. For optimal performance, ensure your system drivers and Windows updates are kept current.

3.1 Power Management

- **Power On:** Press the Alienware head icon on the front panel.
- **Shut Down:** Click the Start button in Windows, then Power > Shut down.
- **Restart:** Click the Start button in Windows, then Power > Restart.
- **Sleep Mode:** Click the Start button in Windows, then Power > Sleep.

3.2 AlienFX Lighting Control

The Alienware Aurora R10 features customizable AlienFX lighting. You can personalize the lighting zones on the front panel using the Alienware Command Center software, which is pre-installed on your system. This software allows you to choose from a wide range of colors and effects to match your setup or mood.

ALIEN FX LIGHTING

Figure 3: The AlienFX lighting system on the front of the desktop, offering personalized illumination.

3.3 Performance Optimization

The Alienware Command Center also provides tools for performance monitoring and optimization, including fan speed control and overclocking options for advanced users. Refer to the software's built-in help for detailed instructions on these features.

Video 1: Official video showcasing the features and design of the Alienware Aurora R10 Gaming Desktop.

4. Key Features

The Alienware Aurora R10 is designed with several key features to enhance your computing and gaming experience:

- **Powerful Processor:** Equipped with an AMD Ryzen 7 3700X (8-Core, 32MB L3 Cache, max boost clock of 4.4GHz) processor, providing robust performance for multitasking and demanding applications.

- **Advanced Graphics:** Features an AMD Radeon RX 5700 XT 8GB GDDR6 graphics card, delivering high frame rates and immersive visuals for modern games.

- **PCI-Express 4.0 Technology:** The first Alienware machine to feature PCI-Express 4.0, doubling the bandwidth available to graphics cards and other components for enhanced overall performance.

- **Optimized Airflow:** The Legend Industrial Design incorporates an improved airflow pattern, efficiently reducing CPU temperatures and allowing for more stable performance and higher overclocking potential.

- **Hybrid Storage Solution:** A combination of a 512GB M.2 PCIe NVMe SSD for fast boot times and application loading, paired with a 1TB 7200 RPM SATA 6 Gb/s HDD for ample storage capacity.

- **Tool-Less Entry:** Designed for easy access to internal components, simplifying upgrades and maintenance.

SIZABLE STORAGE
512GB Solid State Drive + 1TB Hard Drive

Figure 4: Illustration of the sizable storage configuration, combining SSD and HDD for speed and capacity.

TOOL-LESS ENTRY

Figure 5: The tool-less entry design of the desktop, allowing for convenient internal access.
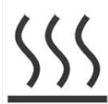
AIRFLOW

More fluid and efficient airflow.

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Figure 6: Visual representation of the optimized airflow within the Aurora R10 chassis.

Figure 7: The AMD Radeon RX 5700 XT graphics card, a core component for high-performance gaming.

5. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your Alienware Aurora R10.

- **Dust Removal:** Periodically clean the exterior and ventilation grilles with a soft, dry cloth. For internal components, use compressed air to gently remove dust from fans and heatsinks. Ensure the system is powered off and unplugged before cleaning.

- **Software Updates:** Regularly check for and install updates for Windows 10, graphics drivers (AMD Radeon Software), and Alienware Command Center. These updates often include performance improvements, security patches, and bug fixes.

- **Cable Management:** Ensure all cables are neatly organized and not obstructing airflow.

- **System Diagnostics:** Utilize the diagnostic tools available through Alienware Command Center or Dell SupportAssist

to check for hardware issues.

Figure 8: Side view of the desktop, highlighting the large ventilation grilles crucial for maintaining optimal temperatures.

6. Troubleshooting

This section provides basic troubleshooting steps for common issues. For more complex problems, refer to the Alienware support website or contact technical support.

- **No Power:**
    - Ensure the power cable is securely connected to both the desktop and the electrical outlet.
    - Verify the power outlet is functional by plugging in another device.
    - Check the power supply unit (PSU) for any indicator lights or unusual noises.

- **No Display:**

- Confirm the monitor is powered on and connected to the correct display port on the graphics card.
- Try a different display cable or monitor if available.
- Ensure the graphics card is properly seated in its slot (requires opening the chassis).

- **System Slowdown/Performance Issues:**
  - Close unnecessary background applications.
  - Check for and install all available Windows updates and driver updates.
  - Monitor system temperatures using Alienware Command Center to ensure components are not overheating.
  - Run a full system scan for malware or viruses.

- **Unusual Noises:**
  - Loud fan noise may indicate dust buildup or high temperatures. Clean the fans and ensure proper airflow.
  - Clicking or grinding noises from the hard drive may indicate a failing drive. Back up your data immediately and contact support.

7. SPECIFICATIONS

Feature	Specification
Brand	Alienware
Series	Aurora R10
Item Model Number	AWAUR10-A886BLK-PUS
Processor	AMD Ryzen 7 3700X (8-Core, 4.4 GHz Max Boost)
RAM	16 GB 2933MHz DDR4 XMP dual channel HyperX Fury
Hard Drive	512 GB M.2 PCIe NVMe SSD Boot + 1 TB 7200 RPM SATA 6 Gb/s Storage
Graphics Coprocessor	AMD Radeon RX 5700 XT 8GB GDDR6
Operating System	Windows 10 Home
Hardware Platform	Windows
Item Weight	38.5 pounds
Color	Dark Side Of The Moon
Number of USB 2.0 Ports	6
Number of USB 3.0 Ports	1
Memory Slots Available	4

8. WHAT'S IN THE BOX

Your Alienware Aurora R10 Gaming Desktop package includes:

- Alienware Aurora R10 Gaming Desktop

- Keyboard
- Mouse
- Power Cable

9. WARRANTY AND SUPPORT

Your Alienware Aurora R10 Gaming Desktop comes with a standard manufacturer's warranty. For detailed warranty information, technical support, and service requests, please visit the official Alienware support website or Dell's customer service portal.

You can find more information and support resources by visiting the Alienware Store on Amazon.