ASUS DUAL-RTX2060-O6G

ASUS DUAL RTX 2060 Overclocked 6G VR Ready Gaming Graphics Card User Manual

Model: DUAL-RTX2060-O6G

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your ASUS DUAL RTX 2060 Overclocked 6G VR Ready Gaming Graphics Card. Designed with NVIDIA's Turing GPU architecture, this graphics card offers powerful performance for gaming and VR applications, featuring 0dB dust-resistant fans for enhanced cooling and quiet operation. Utilize ASUS' GPU Tweak II software for easy overclocking and performance monitoring.

WHAT'S IN THE BOX

Upon opening the product packaging, please verify that all items listed below are present and in good condition:

- ASUS DUAL-RTX2060-O6G Graphics Card
- Driver CD

Image: The ASUS DUAL RTX 2060 graphics card displayed alongside its retail packaging, highlighting the product and its box contents.

SETUP AND INSTALLATION

Follow these steps to properly install your graphics card into your computer system:

1. **Prepare Your System:** Power off your computer and unplug all cables. Open the computer case.

2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. This card requires a 2.7-slot width clearance.

3. **Install the Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Secure the card with the case's retention mechanism or screws.

4. **Connect Power:** Connect the required PCIe power connectors from your power supply to the graphics card. Ensure a secure connection.

5. **Close Case and Connect Peripherals:** Close your computer case, reconnect all cables (monitor, power, etc.), and power on your system.

6. **Install Drivers:** Once your operating system loads, install the graphics drivers using the provided Driver CD or by downloading the latest drivers from the official ASUS support website.

Image: An angled view of the ASUS DUAL RTX 2060 graphics card, showcasing its dual-fan design and overall form factor, essential for understanding physical installation requirements.

For detailed visual instructions, refer to the Installation Manual (PDF).

OPERATING THE GRAPHICS CARD

Your ASUS DUAL RTX 2060 graphics card is designed for high-performance computing, particularly for gaming and virtual reality (VR) applications. After successful driver installation, the card will automatically be utilized by your system for graphics processing.

Key Features:

- **0dB Fan Technology:** The fans will stop spinning when the GPU temperature is below 55°C, providing silent operation during light loads.
- **Overclocked Edition:** This card comes factory-overclocked for enhanced performance out of the box.
- **GPU Tweak II:** Utilize ASUS's proprietary software for real-time monitoring of GPU clock speed, temperature, and fan performance. This software also allows for easy overclocking and optimization of your graphics card settings.

Image: A side view of the ASUS DUAL RTX 2060 graphics card, highlighting its cooling solution and the robust construction of the card's shroud.

Connecting Displays:

The card features multiple display outputs. Connect your monitor(s) to the appropriate ports:

- HDMI Ports
- DisplayPort
- DVI-D Port

Image: A close-up view of the display output ports on the ASUS DUAL RTX 2060 graphics card, showing HDMI, DisplayPort, and DVI-D connections.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your graphics card.

- **Dust Management:** The fans are IP5X dust resistant, but regular cleaning of your computer case and components is recommended to prevent dust buildup, which can impede airflow and cooling efficiency.
- **Software Updates:** Keep your graphics drivers updated to the latest version from the official ASUS or NVIDIA website to ensure compatibility and performance improvements.
- **Temperature Monitoring:** Use GPU Tweak II to monitor the card's temperature, especially during intensive tasks. Ensure adequate case airflow to maintain optimal operating temperatures.

Image: The protective backplate of the ASUS DUAL RTX 2060 graphics card, designed to prevent PCB flex and enhance durability, also contributing to heat dissipation.

TROUBLESHOOTING

If you encounter issues with your graphics card, consider the following common troubleshooting steps:

- **No Display Output:**

    - Ensure the monitor cable is securely connected to the graphics card and the monitor.
    - Verify that the graphics card is fully seated in the PCIe slot and that all power connectors are attached.
    - Test with a different display cable or monitor if possible.

- **Poor Performance in Games/Applications:**

    - Ensure you have the latest graphics drivers installed.
    - Check GPU temperatures using GPU Tweak II; high temperatures can lead to performance throttling. Ensure adequate case ventilation.
    - Verify that your system meets the minimum requirements for the application or game.

- **Fan Noise or Malfunction:**

    - The 0dB fan feature means fans will not spin under light load. This is normal.
    - If fans are excessively noisy under load, check for dust buildup and clean if necessary.
    - Ensure no cables are obstructing the fan blades.

If issues persist after attempting these steps, please contact ASUS customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Model Name	DUAL-RTX2060-O6G
Graphics Coprocessor	NVIDIA GeForce RTX 2060
Video Memory	6 GB GDDR6

Feature	Detail
Memory Speed	14000 MHz
GPU Clock Speed (OC Mode)	1785 MHz
Interface	PCI Express 3.0
Video Output Interface	HDMI, DisplayPort, DVI-D
Dimensions (LxWxH)	16 x 9.2 x 3.5 inches
Item Weight	1.98 pounds
Cooling	Dual Fan (0dB technology, IP5X dust resistance)
Backplate	Protective Aluminum Backplate

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official ASUS website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Additional resources:

- Official ASUS Support: https://www.asus.com/support/
- Product Page (for drivers and software): https://www.asus.com/Graphics-Cards/DUAL-RTX2060-O6G/
- Installation Manual (PDF): https://manuals.plus/m/e23b2decb7d1536d6ec5a68c1fdfc3e7da82802324a387f05d9e80605e5594e9