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Mars Gaming MCPULSAR

Mars Gaming MC-Pulsar ATX Gaming Case Instruction Manual

Model: MCPULSAR

1. PRODUCT OVERVIEW

The Mars Gaming MC-Pulsar is an ATX gaming case designed for optimal performance and aesthetics. It features a panoramic tempered glass design and a front LCD display for real-time system monitoring. The chassis includes a Cablehatch system for efficient cable management and offers versatile connectivity options.



Figure 1: Mars Gaming MC-Pulsar ATX Gaming Case, front view.

Key Features:

- **Real-Time Front LCD Display:** Monitor CPU/GPU temperatures and fan RPM directly on the case.
- **Double Tempered Glass:** Front and side panels provide a clear view of internal components.
- **Cablehatch System:** Side cable bay with tool-free quick access for simplified cable management.
- **Optimized Interior:** Supports ATX, MicroATX, and Mini-ITX motherboards, with ample space for graphics cards and CPU coolers.
- **Liquid Cooling Support:** Accommodates liquid cooling radiators up to 240mm at the top and bottom, and 120mm at the rear.
- **Modern Connectivity:** Includes USB-C, USB 3.0, USB 2.0, and HD audio ports on the I/O panel.

DUAL TEMPERED GLASS



Figure 2: The MC-Pulsar case features dual tempered glass panels on the front and side.

2. SETUP AND INSTALLATION

Follow these steps for proper installation of your computer components into the MC-Pulsar case.

2.1 Preparing the Case

1. Unpack the MC-Pulsar case and place it on a stable, flat surface.
2. Carefully remove the tempered glass side panel by unscrewing the thumb screws, if present, or by releasing the latch mechanism.
3. Identify the internal layout for motherboard, power supply, and drive installation.



Figure 3: Internal layout showing maximum CPU cooler height (162mm), VGA length (332mm), and VGA width (152mm) clearances, along with fan and radiator mounting points.

2.2 Motherboard Installation

1. Install the necessary standoffs for your ATX, MicroATX, or Mini-ITX motherboard.
2. Place the motherboard into the case, aligning it with the standoffs and the I/O shield opening.
3. Secure the motherboard with screws.

2.3 Power Supply Installation

- The power supply mounts at the bottom of the case. Slide the ATX power supply into its designated bay.
- Secure the power supply with screws from the rear of the case.

2.4 Storage Drive Installation

- Install 3.5" HDDs in the designated drive cage.
- Install 2.5" SSDs in their respective mounting points. The case supports 1x 3.5" HDD and 2x 2.5" SSDs.

2.5 Graphics Card and Expansion Cards

- Remove the necessary expansion slot covers.
- Insert your graphics card (up to 332mm length, 152mm width) and other expansion cards into the PCIe slots on the motherboard.
- Secure the cards with screws.

2.6 Cooling System Installation

- Install CPU coolers (up to 162mm height).
- For liquid cooling, radiators up to 240mm can be installed at the top and bottom, and a 120mm radiator at the rear.
- Install additional fans as needed: top (2x 120mm or 2x 140mm), bottom (2x 120mm), rear (1x 120mm).

2.7 Cable Management

Utilize the Cablehatch system for organized cable routing. This side cable bay offers tool-free quick access to manage and hide cables, ensuring optimal airflow and a clean interior.

SIDE ACCESS TO CABLES WITHOUT TOOLS



Figure 4: The Cablehatch system provides convenient side access for cable management without tools.

3. OPERATION

This section details the operational aspects of your MC-Pulsar gaming case.

3.1 Front Panel Connectivity

The front I/O panel provides convenient access to various ports:

- **USB-C Port:** For modern peripherals and fast data transfer.
- **USB 3.0 Ports:** Two ports for high-speed USB devices.
- **USB 2.0 Ports:** Standard USB connectivity.
- **HD Audio Jacks:** Separate ports for microphone and headphones.
- **Power Button:** To turn the system on/off.
- **Reset Button:** To restart the system.



Figure 5: Close-up of the front I/O panel, showing USB-C, USB 3.0, and audio ports.

3.2 Front LCD Display

The integrated rectangular LCD display on the front panel provides real-time monitoring of critical system parameters. This includes:

- **CPU Temperature:** Displays the current temperature of your Central Processing Unit.
- **GPU Temperature:** Displays the current temperature of your Graphics Processing Unit.
- **Fan RPM:** Shows the rotational speed of your system fans.

Ensure the necessary internal connections from the case to your motherboard are made for the LCD display to function correctly. Refer to your motherboard manual for specific header locations.



Figure 6: The front LCD display provides real-time system information.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your MC-Pulsar case and its components.

4.1 Dust Filter Cleaning

- The MC-Pulsar case includes a magnetic dust filter at the top.
- Periodically remove and clean this filter to prevent dust buildup inside the case, which can impede airflow and component cooling.
- Clean with compressed air or a soft brush.

4.2 Interior Cleaning

- With the system powered off and unplugged, carefully open the side panel.
- Use compressed air to remove dust from internal components and surfaces.

- Ensure all cables remain neatly managed using the Cablehatch system to maintain good airflow.

4.3 Tempered Glass Care

- Clean tempered glass panels with a soft, lint-free cloth and a non-abrasive glass cleaner.
- Avoid harsh chemicals or abrasive materials that could scratch the glass.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your MC-Pulsar case.

5.1 System Not Powering On

- **Check Power Connections:** Ensure the power supply is properly connected to the wall outlet and the motherboard.
- **Front Panel Connectors:** Verify that the power button cable from the case is correctly connected to the motherboard's front panel header. Refer to your motherboard manual.
- **Power Supply Switch:** Confirm the power supply's main switch is in the "ON" position.

5.2 Front LCD Display Not Working

- **Internal Connections:** Ensure all necessary data and power cables for the LCD display are securely connected from the case to the motherboard or power supply.
- **Software/Drivers:** Check if any specific software or drivers are required for the display and install them if necessary (refer to Mars Gaming website).

5.3 USB Ports or Audio Jacks Not Functioning

- **Internal Header Connections:** Verify that the USB and audio cables from the front I/O panel are correctly connected to the corresponding headers on your motherboard.
- **Motherboard Drivers:** Ensure your motherboard's USB and audio drivers are up to date.

5.4 Poor Airflow or Overheating

- **Dust Filters:** Clean the magnetic dust filter and any other mesh areas regularly.
- **Fan Orientation:** Ensure case fans are installed with correct airflow direction (intake/exhaust).
- **Cable Management:** Improve cable routing using the Cablehatch system to reduce obstructions to airflow.
- **Component Clearance:** Verify that large components like CPU coolers or GPUs are not blocking critical airflow paths.

6. TECHNICAL SPECIFICATIONS

Below are the detailed specifications for the Mars Gaming MC-Pulsar ATX Gaming Case.

Feature	Detail
Brand	Mars Gaming
Model Name	MCPULSAR
Case Type	Mid Tower
Motherboard Compatibility	ATX, MicroATX, Mini-ITX

Material	Tempered Glass, Steel
Color	Black
Item Weight	4.21 Kilograms
Item Dimensions (D x W x H)	45.3D x 35W x 19.6H centimetres
Max VGA Length	332 mm
Max VGA Width	152 mm
Max CPU Cooler Height	162 mm
Liquid Cooling Support	Top: 240mm, Bottom: 240mm, Rear: 120mm
Fan Capacity	Top: 2x 120mm or 2x 140mm, Bottom: 2x 120mm, Rear: 1x 120mm
Internal Drive Bays	1x 3.5" HDD, 2x 2.5" SSD
Front I/O Ports	1x USB-C, 2x USB 3.0, 1x USB 2.0, HD Audio (Mic/Headphone)
Special Features	Front LCD Display, Cablehatch System, Magnetic Dust Filter



Figure 7: External dimensions of the MC-Pulsar case.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Mars Gaming products are manufactured to high quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Mars Gaming website. Keep your proof of purchase for warranty claims.

Note: A 30-day return policy may be available through your retailer. This is separate from the manufacturer's warranty.

7.2 Technical Support

If you encounter any issues not covered in this manual or require further assistance, please contact Mars Gaming customer support through their official website. You may need to provide your product model (MCPULSAR) and serial number.

Official Website: www.marsgaming.eu