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MSI MAG PANO 120R PZ ATX Mid-Tower Gaming PC Case

User Instruction Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI MAG PANO 120R PZ ATX Mid-Tower Gaming PC Case. Please read this manual thoroughly before beginning assembly to ensure proper setup and safe usage. Keep this manual for future reference.

2. Safety Information

- Always disconnect the power supply before performing any installation or maintenance.
- Handle tempered glass panels with care to prevent breakage.
- Avoid exposing the case to extreme temperatures or humidity.
- Ensure all cables are routed properly to prevent interference with moving parts and to maintain optimal airflow.
- Keep small components and screws away from children.

3. Package Contents

Verify that all items are present in the package:

- MSI MAG PANO 120R PZ PC Case
- Pre-installed ARGB Fans (7 units)
- Accessory Box (screws, cable ties, standoffs, etc.)
- GPU Support Stand
- User Manual (this document)

4. Component Identification

Familiarize yourself with the various parts of the MAG PANO 120R PZ case.



Figure 4.1: Front Angled View of the PC Case. This image displays the overall aesthetic of the case, highlighting the 270-degree tempered glass panel and the pre-installed ARGB fans.



Figure 4.2: Interior Side View. This image illustrates the internal layout, including fan mounting locations and the motherboard tray area.





Figure 4.3: Rear View. This image shows the back of the case, detailing the I/O shield cutout, expansion slots, and rear exhaust fan.


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Figure 5.1: Back-Connect Motherboard Integration. This diagram illustrates how a back-connect motherboard (like MSI Project Zero) integrates with the case, allowing cables to be routed behind the motherboard tray for a cleaner interior.

1. Install the I/O shield into the rear opening of the case.
2. Align your motherboard with the standoffs inside the case.
3. Secure the motherboard with the provided screws.
4. Connect all necessary power and data cables to the motherboard, utilizing the cable routing channels behind the motherboard tray.

5.3 GPU Installation

The case includes a GPU support stand to prevent graphics card sag.

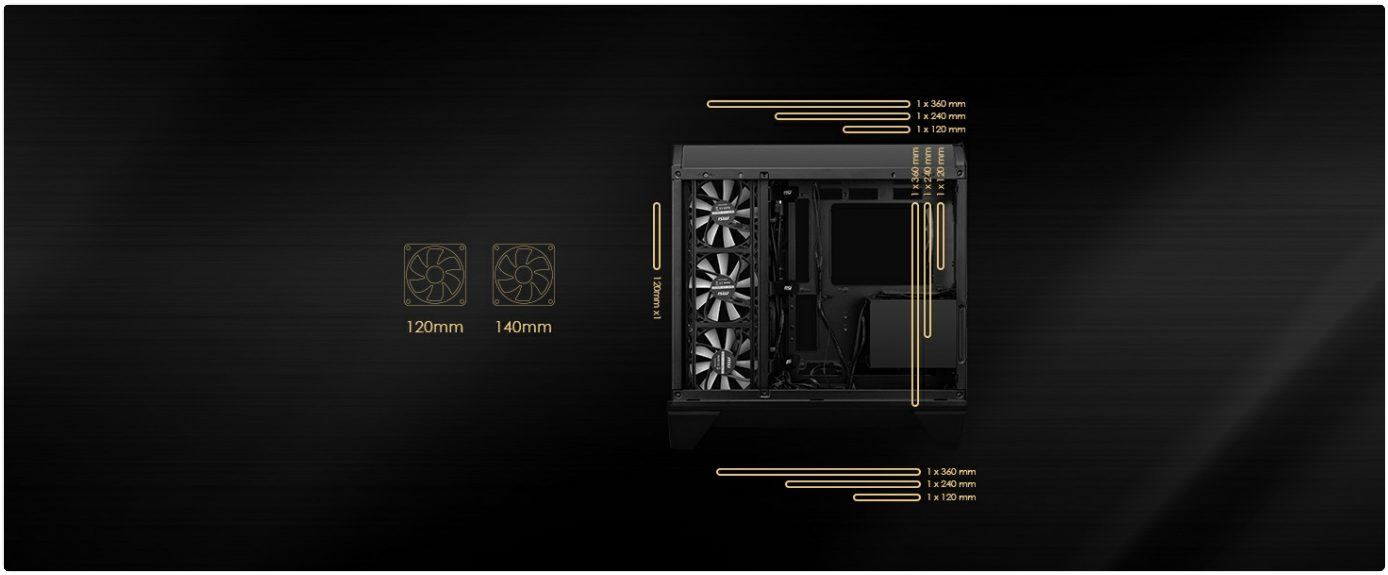


Figure 5.2: GPU Support Stand. This image highlights the adjustable GPU support stand, designed to prevent graphics card sag and provide stability.

1. Remove the necessary expansion slot covers at the rear of the case.
2. Insert your graphics card into the PCIe slot on the motherboard.
3. Secure the graphics card with screws.
4. Adjust the GPU support stand to firmly support the graphics card, using the level indicator for precise height adjustment.

5.4 Cooling System Installation

The case comes with 7 pre-installed ARGB fans and supports liquid cooling radiators up to 360mm.



Figure 5.3: Fan Compatibility. This diagram shows the various fan mounting positions and supported sizes (120mm, 140mm) within the case.



Figure 5.4: Radiator Compatibility. This diagram details the supported radiator sizes (up to 360mm) and their respective mounting locations.

- The case includes a fan hub for connecting the pre-installed ARGB fans. Connect the fan hub to your motherboard's ARGB header and a SATA power connector.
- For additional fans or liquid cooling radiators, refer to the compatibility diagrams for optimal placement.
- Ensure proper airflow direction for efficient cooling (intake from front/bottom, exhaust from rear/top).

6. Operating Instructions

6.1 Front I/O Panel Functions

The front I/O panel provides convenient access to essential ports and controls.



Figure 6.1: Front I/O Panel Layout. This image labels each port and button on the front I/O panel for easy identification and use.

- **Power Button:** Press to power on or off the system.
- **Reset Button:** Press to restart the system.
- **LED Button:** Cycles through various ARGB lighting effects for the pre-installed fans.
- **USB 3.2 Gen 2 Type-C Port:** For high-speed data transfer with compatible devices.
- **USB 3.2 Gen 1 Type-A Ports (x2):** For connecting USB peripherals.
- **Audio-out Jack:** For headphones or speakers.
- **Mic-in Jack:** For microphones.

6.2 ARGB Fan Control

The pre-installed ARGB fans can be controlled via the dedicated LED button on the front I/O panel or through compatible motherboard software if connected to an ARGB header.

- **Case Button Control:** Press the LED button to cycle through pre-programmed lighting modes and colors.
- **Software Control:** If the fan hub is connected to your motherboard's ARGB header, you can use the motherboard manufacturer's RGB software (e.g., MSI Mystic Light) to customize lighting effects.

7. Maintenance

7.1 Dust Filter Cleaning

The case is equipped with removable dust filters on the top and bottom to prevent dust buildup.

1. Gently slide out the dust filters from their respective slots.
2. Clean the filters using a soft brush or by rinsing them with water. Ensure they are completely dry before re-installing.
3. Regular cleaning (e.g., monthly) is recommended to maintain optimal airflow and cooling performance.

7.2 General Cleaning

- Use a soft, damp cloth to wipe down the exterior surfaces of the case. Avoid abrasive cleaners.
- For the tempered glass panel, use a glass cleaner and a microfiber cloth to avoid streaks.
- Use compressed air to remove dust from internal components and fan blades.

8. Troubleshooting

- **No Power:** Ensure the power supply is properly connected to the wall outlet and all internal components (motherboard, GPU, storage) are securely plugged in. Check the power button connection to the motherboard.
- **Fans Not Spinning/No RGB:** Verify that the fan hub is correctly connected to the power supply (SATA) and the motherboard's ARGB header. Check fan connections to the hub.
- **Poor Airflow/High Temperatures:** Clean dust filters and ensure fans are oriented correctly for optimal intake and exhaust. Check for any obstructions inside the case.
- **GPU Sag:** Re-adjust the GPU support stand to provide adequate support. Ensure the GPU is fully seated in its PCIe slot.

9. Specifications

Feature	Specification
Model Name	MAG PANO 120R PZ
Case Type	Mid Tower
Motherboard Compatibility	ATX
Dimensions (L x W x H)	18.5 x 11.9 x 19.5 inches
Item Weight	35.5 pounds
Material	Metal, Tempered Glass
Pre-installed Fans	7 x ARGB Fans
Radiator Support	Up to 360mm
Front I/O Ports	1x USB 3.2 Gen 2 Type-C, 2x USB 3.2 Gen 1 Type-A, Audio-out, Mic-in, LED Control, Power, Reset
Special Features	270-degree Panoramic Display, GPU Support Stand, Dust Filters, Back-Connect Motherboard Support

10. Warranty and Support

For warranty information and technical support, please refer to the official MSI website or contact your local retailer. Keep your proof of purchase for warranty claims.

- **MSI Official Website:** www.msi.com
- **Product Support Page:** Locate your product model (MAG PANO 120R PZ) on the MSI website for drivers, FAQs, and further support resources.