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**Cougar MX220**

# Cougar MX220 RGB Mid Tower PC Gaming Case

INSTRUCTION MANUAL

Sections: Overview | Features | Setup | Operating | Maintenance | Troubleshooting | Specifications | Warranty & Support

## 1. Product Overview

The Cougar MX220 RGB is a mid-tower PC gaming case designed for optimal airflow and modern aesthetics. It features a ventilated front panel with integrated mesh, support for various motherboard sizes, and extensive cooling options. This manual provides instructions for the proper installation, operation, and maintenance of your MX220 RGB case.






Image: Front-left view of the Cougar MX220 RGB Mid Tower PC Gaming Case, showcasing the mesh front panel and side tempered glass panel.

## 2. Key Features

- **Minimalist, Ultraslim Design:** The front panel features an integrated mesh filter and attaches magnetically, simplifying maintenance and providing efficient airflow without a spacer frame.




Image: Close-up view of the magnetic front panel of the MX220 RGB case, detached to show the integrated mesh filter and attachment mechanism.

- **Refined Aesthetics:** The top mesh filter is designed with solid borders to prevent fraying, contributing to a clean appearance and improved tactile experience during removal.
- **Curved Edge Profile:** Rounded corners and curved edges provide a continuous and gentle aesthetic, offering a modern alternative to sharp, angular designs.
- **Preinstalled Fans with Upgrade Option:** Equipped with four preinstalled 3-pin fans and an integrated 4-pin RGB hub. This hub supports upgrades to 4-pin fans for enhanced cooling and RGB control.




Image: Diagram illustrating the integrated RGB hub and its connections to multiple fans, alongside a view of the case with RGB fans illuminated.

- **USB 3.2 Gen 2 Type-C Ports:** Features USB 3.2 Gen 2 Type-C ports on the front I/O panel for fast and seamless connectivity with modern peripherals and devices.

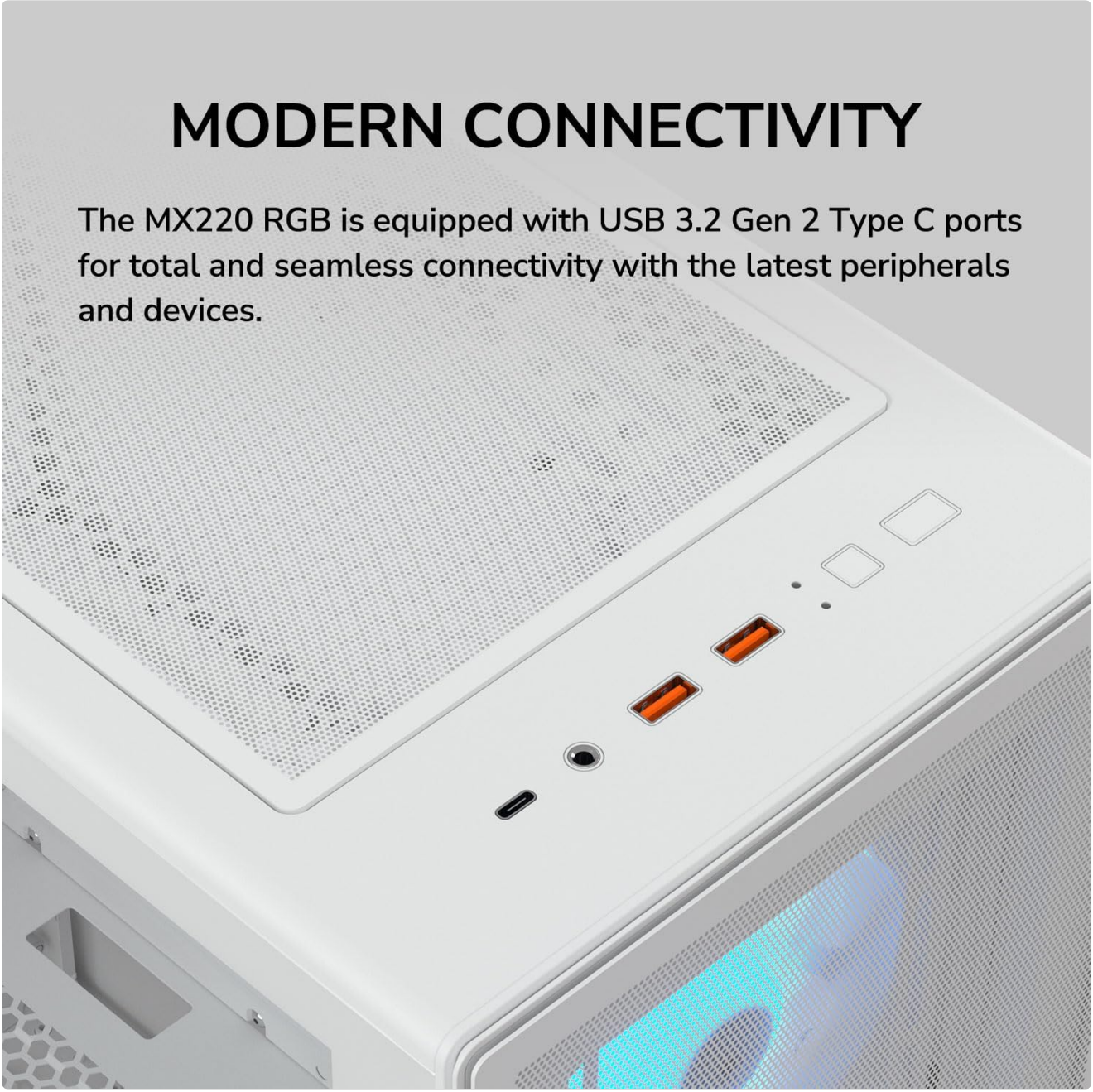



Image: Close-up view of the top I/O panel, highlighting the USB 3.2 Gen 2 Type-C port and other connectivity options.

- **360mm AIO Radiator Support:** The front panel can accommodate a 360mm All-in-One (AIO) liquid cooler radiator. The case supports a maximum of 6 fans for superior cooling potential.

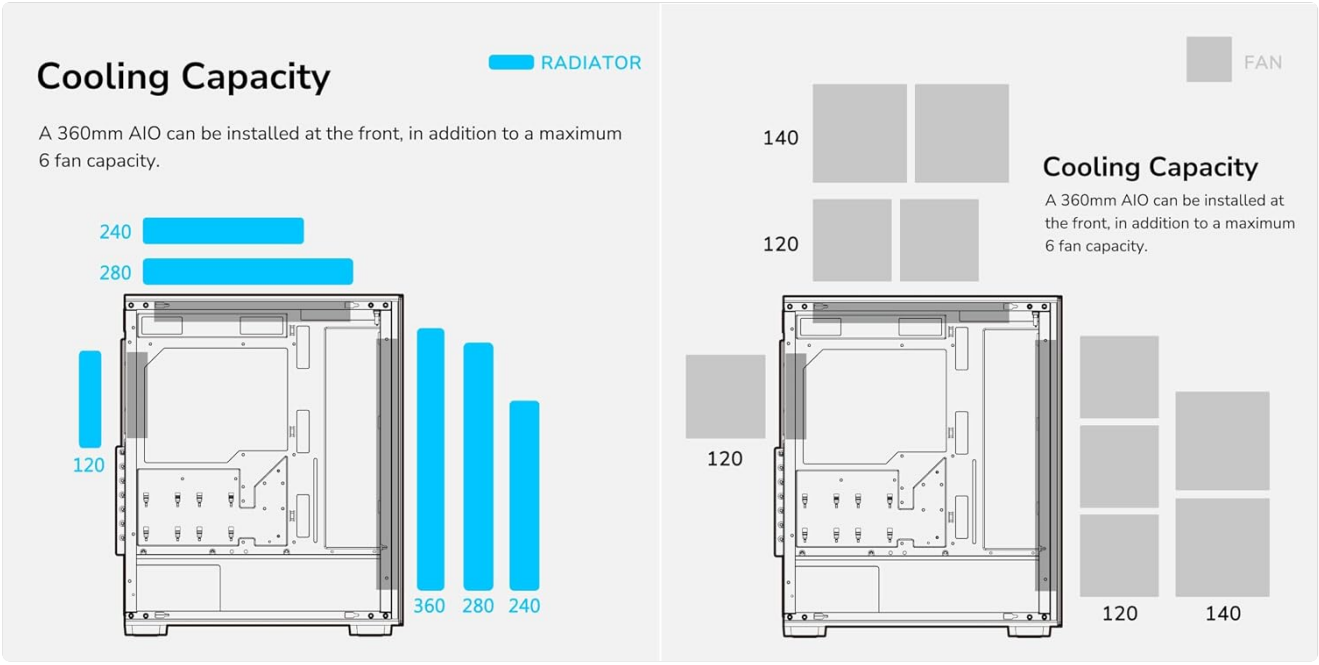



Image: Technical diagram illustrating the radiator and fan mounting options and sizes within the Cougar MX220 RGB case, including support for a 360mm front radiator.

- **GPU Compatibility:** Supports graphics cards up to 340mm in length, allowing for the installation of high-performance GPUs.




Image: Interior view of the MX220 RGB case with a graphics card installed, demonstrating the available space for long GPUs.

- **Storage Flexibility:** Capable of housing up to 4 x 2.5" SSDs or a combination of 2 x 2.5" SSDs and 2 x 3.5" HDDs.

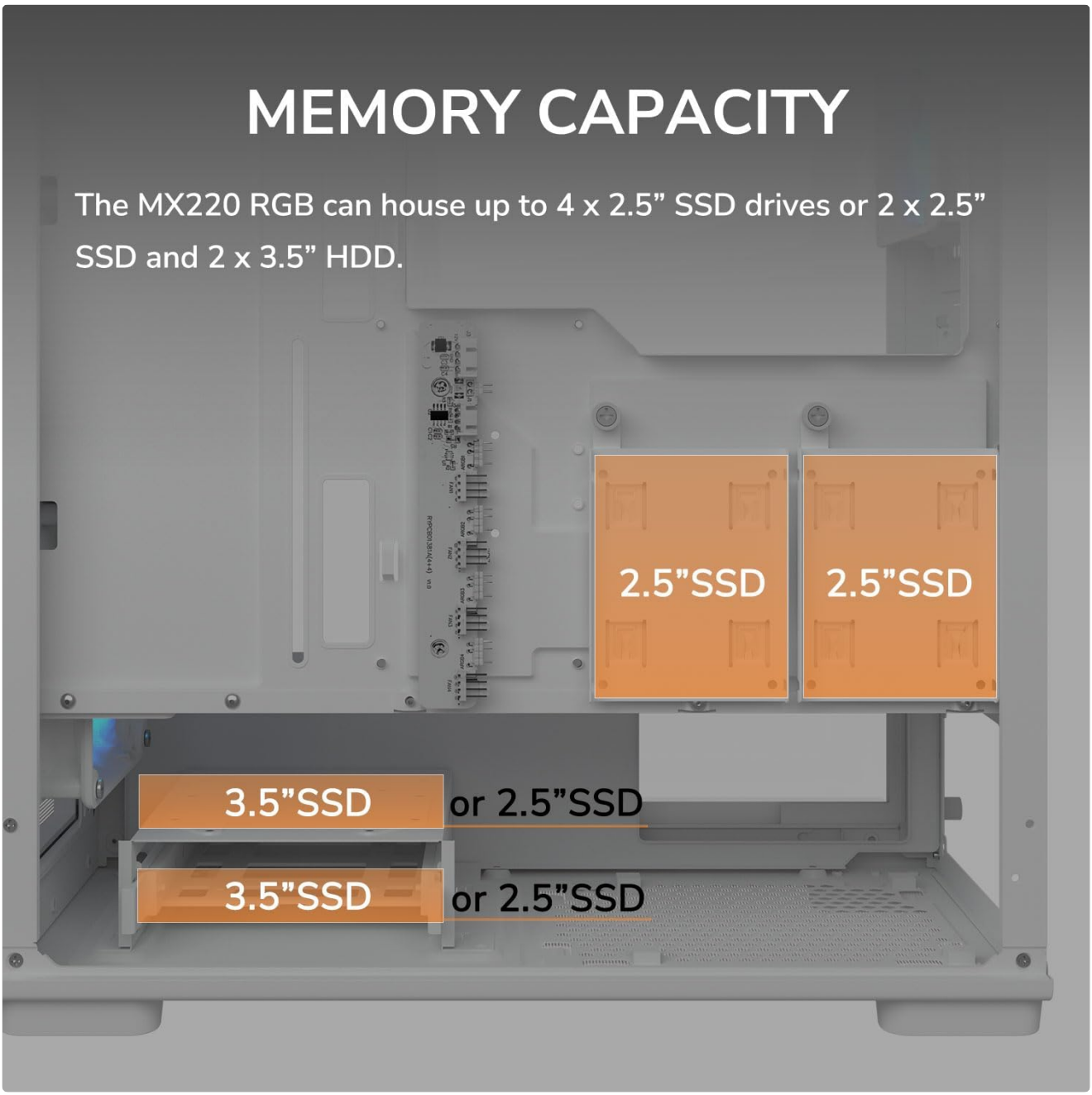



Image: Interior view of the MX220 RGB case highlighting the designated mounting locations for 2.5-inch SSDs and 3.5-inch HDDs.

## 3. Setup and Installation

Before beginning installation, ensure your workspace is clean and static-free. Refer to your component manuals for specific installation instructions.

1. **Prepare the Case:**
    - Carefully remove the side tempered glass panel by unscrewing the thumb screws.
    - Remove the magnetic front panel by gently pulling it away from the chassis.
    - Remove the rear side panel.
2. **Motherboard Installation:**
    - Install the I/O shield into the rear opening of the case.

- Align your Mini-ITX, Micro-ATX, or ATX motherboard with the standoffs inside the case.
- Secure the motherboard with appropriate screws.

3. **Power Supply Unit (PSU) Installation:**
    - Install the PSU into the dedicated compartment at the bottom rear of the case.
    - Secure the PSU with screws from the rear of the case.
4. **Storage Drive Installation:**
    - For 2.5" SSDs: Mount drives onto the designated trays or mounting points on the motherboard tray.
    - For 3.5" HDDs: Install drives into the drive cage located at the bottom of the case.
5. **Graphics Card (GPU) Installation:**
    - Remove the necessary PCIe slot covers from the rear of the case.
    - Insert your GPU into the appropriate PCIe slot on the motherboard.
    - Secure the GPU with screws. The case supports GPUs up to 340mm in length.
6. **Cooling System Installation (Optional/Upgrade):**
    - The case comes with four preinstalled 3-pin fans.
    - For additional fans or liquid cooling: Install fans (120mm/140mm) or radiators (up to 360mm at the front) in designated locations. Refer to the cooling capacity diagram in the Features section.
    - *Note: When installing a 360mm front radiator, the top-mounted 3.5" HDD bay cannot be used.*
7. **Cable Management:**
    - Route cables through the cutouts and tie-down points behind the motherboard tray to ensure clean aesthetics and unobstructed airflow.
    - Connect all necessary power and data cables to your components.
8. **Final Assembly:**
    - Reattach the rear side panel, magnetic front panel, and tempered glass side panel.

## 4. Operating Instructions

Once all components are installed and connected, your Cougar MX220 RGB case is ready for operation.

- **Power On:** Connect your power supply to a wall outlet and flip the PSU switch to the 'On' position. Press the power button located on the top I/O panel of the case to start your system.
- **Front Panel Connectivity:**
    - Utilize the USB 3.2 Gen 2 Type-C ports for high-speed data transfer with compatible devices.
    - Use the standard USB 3.0 ports for other peripherals.
    - Connect headphones and microphones to the dedicated audio jacks.
- **RGB Lighting Control:** The preinstalled fans are connected to an integrated 4-pin RGB hub. Depending on your motherboard's capabilities and software, you can control the RGB lighting effects and fan speeds. Refer to your motherboard manual for specific RGB software and connection details.

## 5. Maintenance

Regular maintenance helps ensure optimal performance and longevity of your PC components.

- **Cleaning Dust Filters:**
  - The front panel features an integrated magnetic mesh filter. Gently pull the front panel to detach it and clean the mesh with compressed air or a soft brush.
  - The top mesh filter can be easily removed for cleaning.
  - Clean other dust filters (e.g., PSU filter) regularly to maintain airflow.
- **General Cleaning:**
  - Use a soft, dry cloth to wipe down the exterior surfaces of the case.
  - For the tempered glass panel, use a glass cleaner and a microfiber cloth.
  - Avoid using harsh chemicals or abrasive materials.

## 6. Troubleshooting

If you encounter issues with your PC build, consider the following common troubleshooting steps:

- **System Not Powering On:**
  - Ensure the power supply is properly connected to the wall outlet and the PSU switch is 'On'.
  - Verify all power cables (24-pin ATX, 8-pin CPU, PCIe power) are securely connected to the motherboard and components.
  - Check that the front panel power button cable is correctly connected to the motherboard's front panel header.
- **Fans Not Spinning / RGB Not Working:**
  - Confirm that the fans are properly connected to the motherboard or the integrated RGB hub.
  - Ensure the RGB hub is receiving power and is connected to the motherboard's RGB header (if applicable).
  - Check your motherboard's BIOS/UEFI settings or RGB software for fan control and lighting options.
- **USB Ports Not Functioning:**
  - Verify that the USB 3.0 and USB Type-C cables from the front panel are correctly connected to the corresponding headers on your motherboard.
  - Check your motherboard's drivers and BIOS settings.
- **No Display Output:**
  - Ensure your monitor cable is connected to the graphics card (GPU) output, not the motherboard's integrated graphics ports (unless you are using integrated graphics).
  - Reseat the graphics card in its PCIe slot.
  - Check that the GPU is receiving adequate power from the PSU.

For more detailed troubleshooting, consult the manuals for your individual PC components (motherboard, GPU, PSU, etc.) or contact Cougar support.

## 7. Product Specifications

| Feature | Specification |
|---|---|
| Model Name | MX220 RGB |
| Case Type | Mid Tower |
| Motherboard Compatibility | Mini ITX, Micro ATX, ATX |
| Dimensions (L x W x H) | 15.47 x 8.07 x 19.09 inches (393 x 205 x 485 mm) |
| Item Weight | 13.42 pounds (6.1 kg) |
| Material | Steel, Tempered Glass, Plastic |
| I/O Panel | 1x USB 3.2 Gen 2 Type-C, 2x USB 3.0, Audio In/Out, Power Button, Reset Button |
| Max GPU Length | 340mm |
| Drive Bays | 2x 3.5" HDD, 4x 2.5" SSD (or 2x 3.5" HDD + 2x 2.5" SSD) |
| Pre-installed Fans | 3x 120mm Front, 1x 120mm Rear (3-pin) |
| Fan Support | Front: 3x 120mm / 2x 140mm; Top: 2x 120mm / 2x 140mm; Rear: 1x 120mm |
| Radiator Support | Front: 120mm / 140mm / 240mm / 280mm / 360mm; Top: 120mm / 240mm; Rear: 120mm |
| Cooling Method | Air, Water |

## 8. Warranty and Support

Cougar products are manufactured to high standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the official Cougar website or the warranty card included with your product.
For technical support, product inquiries, or warranty claims, please visit the official Cougar support website or contact their customer service department. Keep your proof of purchase for warranty validation.
Official Cougar Website: cougargaming.com

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