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Cooler Master MCM-H500-IGNN-S00

Cooler Master MasterCase H500 RGB PC Case Instruction Manual

Model: MCM-H500-IGNN-S00

INTRODUCTION

The Cooler Master MasterCase H500 is a mid-tower PC case designed for high-volume airflow and flexible hardware capacity. It includes both a mesh front panel and a transparent front panel, allowing users to choose between optimized airflow or a clear view of the pre-installed RGB fans. The case features two 200mm RGB fans at the front, controlled by an included RGB controller or via the reset switch for cycling through colors and modes. With 410mm of graphics card clearance, it supports modern high-performance components. A handle is integrated into the top panel for easier transportation.



Figure 1: MasterCase H500 with side panel open, revealing internal components and front RGB fans.

KEY FEATURES

- **Interchangeable Front Panels:** Includes both a mesh front panel for maximum airflow and a transparent front panel for showcasing the RGB fans.
- **Dual 200mm RGB Fans:** Two large 200mm RGB fans are pre-installed at the front for efficient cooling and customizable lighting.
- **RGB Controller:** An included controller manages the RGB lighting, allowing for color and mode adjustments via the reset switch.
- **Clear View Inside:** A tempered glass side panel provides a clear view of the internal components.
- **Radiator Support:** Designed to accommodate various radiator sizes for liquid cooling solutions.
- **Clean Building:** Features covers and ample space for effective cable management, contributing to a tidy build.
- **Integrated Handle:** A sturdy handle on the top panel facilitates easier transportation of the system.

SETUP AND INSTALLATION

Follow these steps for assembling your PC components within the MasterCase H500.

1. Unpacking and Initial Inspection

1. Carefully remove the MasterCase H500 from its packaging.
2. Inspect the case for any signs of damage during transit.
3. Locate the accessory box, which contains screws, zip ties, and the RGB controller.

2. Front Panel Selection and Installation

The MasterCase H500 comes with two interchangeable front panels: a mesh panel for optimal airflow and a transparent panel for aesthetic display of the RGB fans.



Figure 2: MasterCase H500 with Mesh Front Panel.



Figure 3: MasterCase H500 with Transparent Front Panel.

1. To remove the currently installed front panel, gently pull it from the bottom edge until the clips release.
2. Align your desired front panel (mesh or transparent) with the mounting points on the case.
3. Press firmly along the edges until the panel clicks securely into place.

3. Motherboard Installation



Figure 4: Internal layout of the MasterCase H500, highlighting the motherboard tray.

1. Install the I/O shield into the rear opening of the case.
2. Ensure the motherboard standoffs are correctly aligned for your motherboard form factor (ATX, Micro-ATX, Mini-ITX). Adjust if necessary.
3. Carefully place the motherboard onto the standoffs, aligning the screw holes.
4. Secure the motherboard with the appropriate screws.

4. Power Supply Unit (PSU) Installation

1. Mount the PSU into its designated compartment at the bottom rear of the case.
2. Secure the PSU with screws from the rear of the case.

5. Storage Drive Installation

- **3.5" HDDs:** Install into the drive cages located under the PSU shroud.
- **2.5" SSDs/HDDs:** Mount onto the dedicated trays behind the motherboard tray or on top of the PSU shroud.

6. Graphics Card and Expansion Card Installation

1. Remove the necessary PCI-E slot covers from the rear of the case.
2. Insert your graphics card or other expansion cards into the motherboard's PCI-E slots.
3. Secure the cards with screws.

7. Cable Management

Utilize the cable routing cutouts and tie-down points behind the motherboard tray to organize cables. This improves airflow and aesthetics.

OPERATING INSTRUCTIONS

RGB Fan Control

The MasterCase H500's front 200mm RGB fans can be controlled via the included RGB controller or by connecting to a compatible motherboard's RGB header.

- **Using the Included Controller:** Connect the RGB fans to the provided RGB controller. The controller typically connects to a SATA power connector from your PSU.
- **Cycling RGB Modes:** The case's reset button can be repurposed to cycle through various RGB colors and lighting modes when connected to the RGB controller. Consult the controller's specific instructions for detailed operation.
- **Motherboard Sync:** If your motherboard has a compatible 4-pin RGB header, you can connect the fans directly to the motherboard for software control and synchronization with other RGB components. Ensure the RGB controller is disconnected if using motherboard control.

Powering On

After all components are installed and cables are connected, press the power button located on the top I/O panel to start your system.



Figure 5: Top I/O panel with power button and USB ports.

MAINTENANCE

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

- **Dust Filter Cleaning:** The MasterCase H500 includes removable dust filters on the front, top, and bottom (for the PSU intake). Periodically remove and clean these filters with compressed air or by washing them with water and allowing them to dry completely before reinstallation.
- **Interior Cleaning:** Use compressed air to remove dust buildup from internal components, especially fan blades and heatsinks. Ensure the system is powered off and unplugged before cleaning.
- **Exterior Cleaning:** Wipe the exterior surfaces of the case with a soft, damp cloth. Avoid abrasive cleaners.

TROUBLESHOOTING

If you encounter issues with your MasterCase H500, consider the following common troubleshooting steps:

- **Fans Not Spinning/RGB Not Lighting Up:**

- Check all fan and RGB connections to the motherboard or the included RGB controller.
- Ensure the RGB controller is receiving power from the PSU (SATA power connector).
- If using motherboard RGB control, verify that the motherboard's RGB software is installed and configured correctly.

- **Front Panel I/O Not Working:**

- Verify that all front panel connectors (USB, audio, power switch, reset switch) are correctly plugged into the motherboard headers. Refer to your motherboard manual for correct pin assignments.

- **Excessive Noise:**

- Ensure all fans are securely mounted and free from obstructions.
- Check for loose cables or components that might be vibrating against the case.
- Clean dust from fans and filters.

SPECIFICATIONS

Feature	Detail
Brand	Cooler Master
Model Number	MCM-H500-IGNN-S00
Case Type	Mid Tower
Motherboard Compatibility	ATX, Micro-ATX, Mini-ITX
Color	RGB (Black case with RGB fans)
Material	Steel, Plastic, Tempered Glass
Dimensions (L x W x H)	20.67 x 8.98 x 19.76 inches (525 x 228 x 502 mm)
Item Weight	2.2 pounds (998 grams)
Pre-installed Fans	Front: 2x 200mm RGB Fan
Fan Support (Top)	2x 120mm / 2x 140mm / 1x 200mm
Fan Support (Rear)	1x 120mm
Radiator Support (Front)	120mm, 140mm, 240mm, 280mm, 360mm
Radiator Support (Top)	120mm, 140mm, 240mm, 280mm
Radiator Support (Rear)	120mm
Drive Bays (3.5" HDD)	2 (Max. 2)
Drive Bays (2.5" SSD)	2 (Max. 4)
Expansion Slots	7
I/O Panel	2x USB 3.0, 2x USB 2.0, Audio In/Out

Feature	Detail
Maximum GPU Length	410mm
Maximum CPU Cooler Height	167mm
Power Supply Mounting Type	Bottom Mount, ATX PS2

WARRANTY AND SUPPORT

Cooler Master products are backed by a limited warranty. For detailed warranty information, technical support, or to register your product, please visit the official Cooler Master website or contact their customer service department. Keep your proof of purchase for warranty claims.

Official Website: www.coolermaster.com