

Cooler Master MCW-L5S3-KGNN-02

Cooler Master MasterBox Lite 5 RGB ATX Mid-Tower PC Case User Manual

MODEL: MCW-L5S3-KGNN-02

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Cooler Master MasterBox Lite 5 RGB ATX Mid-Tower PC Case. This case is designed to house standard ATX, Micro-ATX, and Mini-ITX motherboards and components, featuring a DarkMirror front panel, a tempered glass side panel, and three pre-installed 120mm RGB fans.

Key features include:

- Three pre-installed 120mm RGB fans in the front.
- DarkMirror front panel and tempered glass side panel.
- Three customizable color trims (Red, Black, White) for aesthetic personalization.
- Support for up to a 360mm radiator in the front.
- Accommodates GPU/VGA cards up to 400mm in length.



Figure 1: Front view of the Cooler Master MasterBox Lite 5 RGB PC Case, showcasing the DarkMirror panel and illuminated RGB fans.

2. Installation Guide

Follow these steps for proper installation of your PC components into the MasterBox Lite 5 RGB case.

2.1. Preparing the Case

- Carefully unpack the case from its packaging.
- Remove the tempered glass side panel by unscrewing the four thumb screws. Place the panel on a soft, flat surface to prevent scratches.
- Remove the opposite steel side panel by unscrewing the two rear thumb screws and sliding it backward.

2.2. Motherboard Installation

- Install the I/O shield into the rear opening of the case.
- Ensure the correct motherboard standoffs are installed for your motherboard form factor (ATX, Micro-ATX, Mini-ITX).
- Carefully place your motherboard onto the standoffs, aligning the screw holes.
- Secure the motherboard with screws.

2.3. Power Supply Unit (PSU) Installation

- The PSU mounts at the bottom of the case. Slide the PSU into its designated compartment from the rear.
- Secure the PSU with screws from the rear of the case.
- Route necessary power cables through the cable management cutouts to the motherboard and other components.

2.4. Storage Drive Installation

- Install 2.5-inch SSDs or 3.5-inch HDDs into the designated drive bays located in the PSU shroud area or behind the motherboard tray.
- Secure drives using the provided screws or tool-less mechanisms.

2.5. Graphics Card (GPU) and Expansion Card Installation

- Remove the necessary expansion slot covers from the rear of the case.
- Insert your graphics card or other expansion cards into the PCIe slots on your motherboard.
- Secure the cards with screws. The case supports GPUs up to 400mm in length.

2.6. Cooling System and Fan Connections

- The case comes with three 120mm RGB fans pre-installed in the front.
- Connect the fan power cables to your motherboard's fan headers or a fan controller.
- Connect the RGB cables to a compatible RGB header on your motherboard (e.g., 4-pin 12V RGB header) or an external RGB controller using the included 1-to-3 splitter cable.
- For additional cooling, the front supports up to a 360mm radiator.



Figure 2: Internal layout of the MasterBox Lite 5 RGB case, illustrating component mounting areas.

2.7. Front Panel Connections

- Connect the front panel cables (USB 2.0, USB 3.0, HD Audio, Power Switch, Reset Switch, Power LED, HDD LED) to the corresponding headers on your motherboard. Refer to your motherboard manual for header locations.

2.8. Cable Management

- Utilize the cutouts and tie-down points behind the motherboard tray to route and secure cables. This improves airflow and aesthetics.
- Ensure cables are not obstructing fan blades or airflow paths.



Figure 3: Example of a system built within the MasterBox Lite 5 RGB, demonstrating component placement and cable routing.

3. Operation

Once all components are installed and connected, you can begin operating your PC.

3.1. Powering On

- Ensure all external peripherals (monitor, keyboard, mouse) are connected.
- Connect the power cable to the PSU and a wall outlet.
- Press the power button on the front panel of the case.

3.2. RGB Lighting Control

- The pre-installed RGB fans can be controlled via compatible motherboard software (e.g., ASUS Aura Sync, MSI

Mystic Light, Gigabyte RGB Fusion) if connected to the motherboard's RGB header.

- Alternatively, an external RGB controller (not included with the case) can be used for lighting customization.

3.3. USB Ports

- The front panel provides two USB 2.0 ports and two USB 3.0 ports for connecting peripherals and external storage devices.

4. Maintenance and Care

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

4.1. Cleaning the Exterior

- Use a soft, damp cloth to wipe down the exterior surfaces. Avoid abrasive cleaners.
- For the DarkMirror front panel and tempered glass side panel, use a glass cleaner specifically designed for electronics to prevent streaks and damage.

4.2. Dust Management

- Periodically clean any dust filters (e.g., on the PSU intake) to maintain optimal airflow.
- Use compressed air to remove dust from inside the case, especially from fan blades and heatsinks. Ensure the system is powered off before cleaning.

4.3. Airflow Optimization

- The design of the DarkMirror front panel may restrict direct airflow to the front fans. Monitor system temperatures, especially under heavy load.
- Ensure there is adequate space around the case for proper air intake and exhaust.



Figure 4: The MasterBox Lite 5 RGB case with a red customizable trim, highlighting aesthetic options.

5. Troubleshooting Common Issues

This section addresses common issues you might encounter.

5.1. High Internal Temperatures

- **Check Fan Configuration:** Ensure all fans are spinning and oriented correctly (front for intake, rear for exhaust).
- **Cable Management:** Poor cable management can obstruct airflow. Re-route cables to minimize interference.
- **Dust Buildup:** Clean dust filters and internal components regularly.
- **Front Panel Airflow:** The DarkMirror front panel has limited side vents for airflow. If temperatures remain high, consider optimizing fan curves or adding additional exhaust fans if possible.

5.2. Excessive Fan Noise

- **Obstructions:** Check if any cables are touching fan blades.
- **Fan Speed:** Adjust fan speeds through your motherboard's BIOS/UEFI settings or dedicated fan control software.
- **Loose Screws:** Ensure all fans are securely mounted to prevent vibrations.

5.3. RGB Lighting Not Functioning

- **Connections:** Verify that the RGB cables are securely connected to the correct RGB header on your motherboard or controller.
- **Software:** Ensure the correct RGB control software is installed and configured on your operating system.
- **Power:** Confirm that the RGB controller (if external) is receiving power.

5.4. Case Stability Issues

- **Level Surface:** Ensure the case is placed on a flat, stable surface.
- **Case Feet:** Verify that all four case feet are present and securely attached.

6. Technical Specifications

Feature	Specification
Model Name	MasterBox Lite 5 RGB (MCW-L5S3-KGNN-02)
Dimensions (L x W x H)	18.45 x 7.87 x 17.89 inches (468.63 x 199.9 x 454.41 mm)
Item Weight	14.5 pounds (6.59 kg)
Materials	Alloy Steel, Plastic, Tempered Glass
Motherboard Compatibility	ATX, Micro-ATX, Mini-ITX
Case Type	Mid Tower
USB 2.0 Ports	2
USB 3.0 Ports	2
Pre-installed Fans	3 x 120mm RGB (Front)
GPU Clearance	Up to 400mm
Radiator Support (Front)	Up to 360mm
Expansion Slots	7

7. Warranty Information and Support

Cooler Master products are manufactured to the highest quality standards. For detailed warranty information, please refer to the official Cooler Master website or the warranty card included with your product. The product package includes the case and this manual.

For technical support, FAQs, or to download the latest drivers and software, please visit the official Cooler Master support page:

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question