

Cooler Master E500-KGNN-S00

Cooler Master Masterbox Elite 500 Mid Tower PC Case User Manual

Model: E500-KGNN-S00

1. INTRODUCTION AND OVERVIEW

The Cooler Master Masterbox Elite 500 is a mid-tower PC case designed for optimal cooling and versatile component compatibility. It features substantial ventilation on the front panel to ensure excellent airflow for both air and liquid cooling configurations. This case is suitable for a range of computing needs, from professional tasks to high-demand gaming setups, offering ample space for robust graphics cards and liquid cooling systems.

Key features include a full black interior, a breathable power supply unit (PSU) shroud, a 4-pole headset connector, and versatile, removable drive bays for flexible storage solutions.



Figure 1.1: Front view of the Masterbox Elite 500 PC Case, highlighting the ample filtered air intake. (Illustrative image placeholder)

2. SETUP AND INSTALLATION

2.1 Unpacking

Carefully remove the PC case from its packaging. Inspect for any damage that may have occurred during shipping. Retain all packaging materials for future transport or warranty claims.

2.2 Motherboard Installation

1. Ensure the correct standoffs are installed for your motherboard form factor (Mini ITX, Micro ATX, or ATX).
2. Carefully place your motherboard onto the standoffs, aligning the screw holes.
3. Secure the motherboard with the provided screws.

2.3 Power Supply Unit (PSU) Installation

The Masterbox Elite 500 supports bottom-mounted PSUs. The breathable PSU shroud allows for flexible installation, with the fan facing either upwards or downwards, accommodating both active and passive cooling PSUs.

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

2.4 Storage Drive Installation

The case supports up to 2x 3.5" HDDs or up to 5x 2.5" SSDs (depending on configuration). The versatile drive bays are removable and can be repositioned to optimize space for larger PSUs or radiators, or removed entirely if not needed.

1. Locate the drive bays behind the motherboard tray or in the main compartment.
2. Mount your 3.5" HDDs or 2.5" SSDs into the appropriate bays.
3. Secure the drives using the provided hardware.

2.5 Expansion Card Installation

The case provides 7 expansion slots. It offers a graphics card clearance of up to 350mm (without front fans and radiator).

1. Remove the necessary expansion slot covers from the rear of the case.
2. Insert your expansion card (e.g., graphics card) into the motherboard's PCIe slot.
3. Secure the card with the retaining screw.

2.6 Fan and Radiator Installation

The Masterbox Elite 500 supports various fan and radiator configurations:

- **Front:** 2x 140mm or 3x 120mm fans; Radiator support: 120mm, 140mm, 240mm, 280mm, 360mm.
- **Top:** 2x 120mm or 2x 140mm fans; Radiator support: 120mm, 240mm (max 32mm motherboard component height).
- **Rear:** 1x 120mm fan (1x 120mm pre-installed); Radiator support: 120mm.

Install fans and radiators according to your cooling needs, ensuring proper airflow direction.

2.7 Cable Management

The case provides 18.5mm of cable routing space behind the motherboard tray. Utilize this space and the integrated cable ties or tie-down points to manage cables neatly, improving airflow and aesthetics.



Figure 2.1: Internal layout illustrating component installation areas and cable management. (Illustrative image placeholder)

3. OPERATING INSTRUCTIONS

3.1 Airflow Optimization

The Masterbox Elite 500 is designed with an emphasis on airflow. Ensure that your installed fans are configured to create an efficient airflow path, typically with intake fans at the front and exhaust fans at the rear and top. The wide, unrestricted front panel intake provides excellent fresh air circulation.

3.2 I/O Panel Usage

The front I/O panel includes:

- 2x USB 3.2 Gen 1 Type-A ports for high-speed data transfer.
- 1x 3.5mm Headset Connector (Audio+Mic) for simultaneous audio output and microphone input, eliminating the need for separate connectors.

Connect your peripherals to these ports as needed.

4. MAINTENANCE

4.1 Dust Filter Cleaning

The Masterbox Elite 500 is equipped with dust filters at the front, top, and base to prevent dust accumulation inside the system. Regular cleaning of these filters is crucial for maintaining optimal airflow and cooling performance.

1. Gently remove the dust filters from their respective locations.
2. Clean the filters using compressed air, a soft brush, or by rinsing with water (ensure they are completely dry before reinstallation).
3. Reinstall the clean dust filters.

4.2 General Cleaning

For the exterior, use a soft, damp cloth to wipe down surfaces. Avoid abrasive cleaners. For the interior, use compressed air to remove dust from components and internal surfaces periodically.

5. TROUBLESHOOTING

5.1 Common Issues

- **No Power:** Ensure all power cables (PSU to wall, PSU to motherboard, PSU to components) are securely connected. Check the power switch on the PSU.
- **Fans Not Spinning:** Verify fan cables are correctly connected to the motherboard or fan controller. Check BIOS settings for fan control.
- **Component Fit Issues:** Refer to the specifications section for maximum clearances (CPU cooler, GPU, PSU). Ensure components are installed correctly and not obstructing each other.
- **Overheating:** Confirm proper fan configuration and clean dust filters. Ensure thermal paste is correctly applied to the CPU cooler.

5.2 General Advice

If you encounter issues, always double-check all connections. Consult the manuals for your individual components (motherboard, GPU, PSU) for specific troubleshooting steps. If problems persist, contact Cooler Master support.

6. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Series	Elite Series
Size	Mid Tower
Model Number	E500-KGNN-S00
Available Colors	Black
Materials	Steel, Plastic, Tempered Glass
Dimensions (L x W x H)	409 x 204 x 455mm
Motherboard Support	Mini ITX, Micro ATX, ATX
Expansion Slots	7
2.5" / 3.5" Drive Bays (Combo)	2
2.5" Drive Bays	3
I/O Panel	2x USB 3.2 Gen 1 Type-A, 1x 3.5mm Headset Connector (Audio+Mic)
Pre-installed Fans - Rear	1x 120mm
Fan Support - Top	2x 120mm, 2x 140mm
Fan Support - Front	2x 140mm, 3x 120mm
Fan Support - Rear	1x 120mm
Radiator Support - Top	120 / 240mm (32mm max motherboard component height)
Radiator Support - Front	120mm, 140mm, 240mm, 280mm, 360mm
Radiator Support - Rear	120mm
Clearance - CPU Cooler	161mm
Clearance - PSU	160mm
Clearance - GFX	350mm (without front fans & radiator)
Cable Routing	18.5mm
Dust Filters	Front, Top, Base
Item Weight	7 kg
Country of Origin	China

7. WARRANTY AND SUPPORT

7.1 Product Warranty

The Cooler Master Masterbox Elite 500 PC Case comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official Cooler Master website or contact their customer support department. Refer to the Cooler Master website for the most up-to-date contact information and support resources.

8. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found in the provided data. Please refer to the Cooler Master official website or authorized channels for any available video content related to the Masterbox Elite 500.

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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