

Cooler Master E690-KHNN-S00

Cooler Master Elite 690 Wood Computer Case User Manual

Model: E690-KHNN-S00

1. INTRODUCTION

Welcome to the Cooler Master Elite 690 Wood Computer Case user manual. This document provides essential information and step-by-step instructions for the proper installation, operation, and maintenance of your new computer chassis. Please read this manual thoroughly before beginning any installation to ensure correct setup and optimal performance.

2. SAFETY INFORMATION

- Always disconnect the power supply from the wall outlet before installing or removing any components inside the computer case.
- Handle tempered glass panels with extreme care. Tempered glass can shatter if dropped or struck with force.
- Avoid exposing the case to extreme temperatures, humidity, or direct sunlight.
- Keep small parts and screws away from children.
- Ensure proper grounding to prevent electrostatic discharge (ESD) damage to components.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any items are missing or damaged, please contact your retailer or Cooler Master support.

- Cooler Master Elite 690 Wood Computer Case
- 3 x Pre-installed ARGB Fans (2x side intake, 1x rear exhaust)
- Accessory Box (containing screws, cable ties, motherboard standoffs, and additional mounting hardware)
- User Manual (this document)



Figure 3.1: Overview of the Cooler Master Elite 690 case with pre-installed fans and internal layout visible through the tempered glass panels.

4. SETUP AND INSTALLATION

Follow these steps to install your computer components into the Cooler Master Elite 690 case.

4.1. Preparation

1. Unpack the case and place it on a stable, flat surface.
2. Remove the side tempered glass panel by unscrewing the thumb screws and carefully lifting it away.
3. Gather necessary tools: Phillips head screwdriver, cable ties (included in accessory box).

4.2. Motherboard Installation

1. Install the appropriate motherboard standoffs into the motherboard tray according to your motherboard's form factor (ATX supported).

2. Carefully place your motherboard onto the standoffs, aligning the screw holes.
3. Secure the motherboard with the provided screws.

4.3. Power Supply Unit (PSU) Installation

1. Locate the dedicated lower PSU compartment.
2. Slide your PSU into the compartment from the rear of the case.
3. Secure the PSU with screws from the rear of the case.

4.4. Storage Drive Installation

The case supports various storage drive configurations. Refer to the accessory box for specific mounting brackets and screws.

- Install 2.5-inch SSDs or 3.5-inch HDDs into the designated drive bays or mounting points.
- Secure drives using the provided screws.

4.5. Graphics Card (GPU) Installation

1. Remove the necessary PCIe slot covers from the rear of the case.
2. Insert your graphics card into the appropriate PCIe slot on the motherboard.
3. Secure the graphics card with screws. The case supports GPUs up to 425mm in length.

4.6. Fan and Radiator Installation

The Elite 690 features a vertical cooling architecture and supports extensive fan and radiator configurations.

- **Top Radiator Support:** Up to 360mm.
- **Side Radiator Support:** Up to 240mm.
- **Fan Support:** Up to 10 fans for optimized bottom-to-top airflow.
- The 3 pre-installed ARGB fans are configured for optimal airflow (2x side intake, 1x rear exhaust).



Figure 4.6: Angled view of the case highlighting the internal layout, pre-installed ARGB fans, and tempered glass side panel.

4.7. Cable Management

Utilize the cable routing channels and tie-down points behind the motherboard tray to organize cables. The pre-installed ARGB fans feature daisy-chain connectors for simplified wiring.

4.8. Front I/O Panel Connections

Connect the front panel cables to the corresponding headers on your motherboard:

- **USB 3.0 Type-A:** Connect the USB 3.0 header to your motherboard's USB 3.0 port.
- **USB 3.2 Gen 2x2 Type-C:** Connect the USB-C header to your motherboard's compatible port for up to 20Gbps transfer speed.
- **HD Audio:** Connect the audio header to your motherboard's audio port.
- **Power/Reset Switches & LEDs:** Connect these small connectors to the front panel headers on your motherboard.

Refer to your motherboard manual for exact pin assignments.



Figure 4.8: Front view of the Cooler Master Elite 690, showcasing the natural wood-textured accent and the internal layout for component installation.

5. OPERATING

Once all components are installed and connected, you can power on your system. Ensure that all cables are securely connected and that the case has adequate ventilation around it to maintain optimal airflow.

- **ARGB Lighting Control:** The pre-installed ARGB fans are compatible with major motherboard ARGB software for synchronized lighting control. Connect the ARGB cables to your motherboard's 3-pin 5V ARGB header.
- **Airflow:** The case is designed for a vertical bottom-to-top airflow path. Ensure no obstructions block the mesh panels on the top and bottom of the case.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your computer system.

- **Dust Filters:** Periodically remove and clean the dust filters located on the intake areas of the case. These can be cleaned with compressed air or by rinsing with water (ensure they are completely dry before reinstallation).
- **Exterior Cleaning:** Wipe the exterior surfaces with a soft, damp cloth. Avoid abrasive cleaners or solvents, especially on the tempered glass and wood panel.
- **Interior Cleaning:** Use compressed air to remove dust buildup from internal components and fans. Perform this with the system powered off and unplugged.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **System Not Powering On:**
 - Ensure the PSU is switched on and properly connected to the wall outlet.
 - Verify all power cables (24-pin ATX, CPU, GPU, etc.) are securely connected to the motherboard and components.
 - Check that the front panel power switch cable is correctly connected to the motherboard header.
- **Fans Not Spinning/ARGB Not Lighting Up:**
 - Confirm fan power cables are connected to the motherboard or fan controller.
 - Ensure ARGB cables are connected to a compatible 3-pin 5V ARGB header on the motherboard.
 - Check motherboard software for ARGB control settings.
- **Front I/O Ports Not Working:**
 - Verify that the USB and audio headers from the front panel are correctly connected to the motherboard.

8. SPECIFICATIONS

Feature	Specification
Brand	Cooler Master
Model Number	E690-KHNN-S00
Dimensions (L x W x H)	53.1 x 54.4 x 26.1 cm
Item Weight	13 kg
Motherboard Support	ATX

Maximum GPU Length	425mm
Radiator Support (Top)	Up to 360mm
Radiator Support (Side)	Up to 240mm
Fan Support	Up to 10 fans (bottom-to-top airflow)
Pre-installed Fans	3 x ARGB (2x side intake, 1x rear exhaust)
Front I/O Ports	2x USB 3.0 Type-A, 1x USB 3.2 Gen 2x2 Type-C, Audio
Materials	Steel, Tempered Glass, Wood

9. WARRANTY AND SUPPORT

Cooler Master products are backed by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Cooler Master website. For technical assistance, troubleshooting, or to report any issues, please contact Cooler Master customer support through their official channels.

Cooler Master Support: www.coolermaster.com/support/

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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

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Email

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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

