

SAMA V52

SAMA V52 ATX Mid Tower PC Case Instruction Manual

Model: V52

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SAMA V52 ATX Mid Tower PC Case. Please read this manual thoroughly before beginning assembly to ensure proper setup and safe usage. The SAMA V52 features a dual-chamber panoramic tempered glass design, supporting high-end gaming hardware and advanced cooling solutions.



Image 1.1: Overview of the SAMA V52 ATX Mid Tower PC Case, highlighting its clear view and airflow design.

DUAL-CHAMBER STRUCTURE

A dual-chamber layout separates the PSU and drives from the main build area, reducing cable clutter in the primary chamber and helping keep heat sources isolated for more consistent airflow to the CPU and GPU.

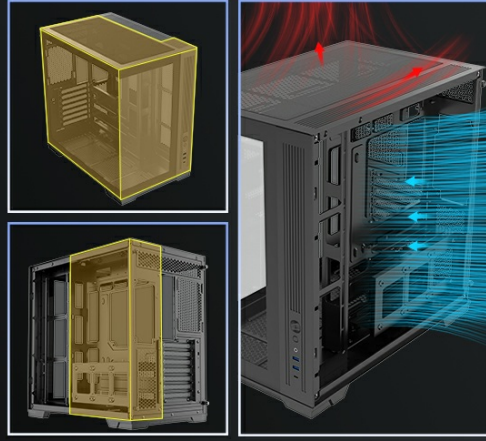


Image 1.2: Diagram showing the dual-chamber structure, separating the PSU and cables from the main components for improved airflow and cable management.

2. SAFETY INFORMATION

Always follow basic safety precautions when assembling or maintaining your PC. Failure to do so may result in personal injury or damage to your equipment.

- Disconnect the power supply from the wall outlet before performing any installation or maintenance.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.
- Handle tempered glass panels with care. They are fragile and can break if dropped or subjected to impact.
- Keep small parts and screws away from children.
- Ensure proper ventilation around the PC case to prevent overheating.

3. PACKAGE CONTENTS

Verify that all components are present before beginning assembly:

- SAMA V52 ATX Mid Tower PC Case
- 7 x Pre-installed PWM ARGB Fans (1 rear, 3 bottom reverse, 3 side reverse)
- ARGB Hub for fan control
- Accessory Box (screws, standoffs, cable ties, user manual)

4. SPECIFICATIONS

The following table details the key specifications of the SAMA V52 PC Case:

V52 BLACK

Dual-chamber panoramic vista. High-capacity thermal engineering.
Where high-end aesthetics meet limitless hardware potential.

Dimensions	443×277×435mm
CPU Cooler Height	Up to 158mm
Graphic Card Length	Up to 420mm
120mm Fans	Up to 10
140mm Fans	Up to 4
AIO Cooler	Up to 360mm
3.5" HDD Bays	2
2.5" SSD Bays	3



Image 4.1: Visual representation of the SAMA V52 specifications, including dimensions and hardware support.

Feature	Specification
Model Name	V52
Case Type	ATX Mid Tower
Dimensions (D x W x H)	443mm x 277mm x 435mm (16"D x 10"W x 17"H)
Motherboard Compatibility	ATX, Micro ATX, Mini ITX, Back-connect ATX/M-ATX
GPU Length Support	Up to 420mm
CPU Cooler Height Support	Up to 158mm

Feature	Specification
PSU Length Support	Up to 260mm
Radiator Support	Top: 360mm/280mm/240mm/140mm/120mm Bottom: 360mm/280mm/240mm/140mm/120mm Side: 360mm/240mm/120mm
Fan Support	Rear: 1x 120mm Top: 3x 120mm / 2x 140mm Bottom: 3x 120mm / 2x 140mm Side: 3x 120mm Total: Up to 10x 120mm fans or 4x 140mm fans
Pre-installed Fans	7 x PWM ARGB Fans (1 rear, 3 bottom reverse, 3 side reverse)
Drive Bays	2 x 3.5" HDD, 3 x 2.5" SSD
Front I/O Ports	1 x USB 3.2 Gen2 Type-C, 2 x USB 3.0, HD Audio, Power, LED Control
Material	Tempered Glass, Steel
Special Features	Dual-Chamber Design, Panoramic Tempered Glass, Back-Connect ATX Support, Dust Filters, LED Control Button, RGB Lighting

5. SETUP AND INSTALLATION

Follow these steps to assemble your PC components within the SAMA V52 case.

Your browser does not support the video tag.

Video 5.1: An overview of the SAMA V52 ATX Mid Tower PC Case, demonstrating its features and compatibility.

5.1. Accessing the Interior

The SAMA V52 features toolless access to its interior. Gently pull the tempered glass side panels to detach them from the chassis. The top and front panels can also be removed for easier access during installation.

TOOLLESS ACCESS

A tool-free, quick-release panel structure provides instant access to the main chamber and rear cable management area.



Image 5.1.1: Illustration of the toolless quick-release panel structure, providing instant access to the main chamber and rear cable management area.

5.2. Motherboard Installation

The SAMA V52 supports ATX, Micro ATX, Mini ITX, and back-connect ATX/M-ATX motherboards. Install the necessary standoffs for your motherboard size, then carefully place the motherboard and secure it with screws.

VERSATILE COMPATIBILITY

Motherboards: ATX, M-ATX, ITX, Back-connect ATX, M-ATX

Storage: 2×HDDs or 3×SSDs

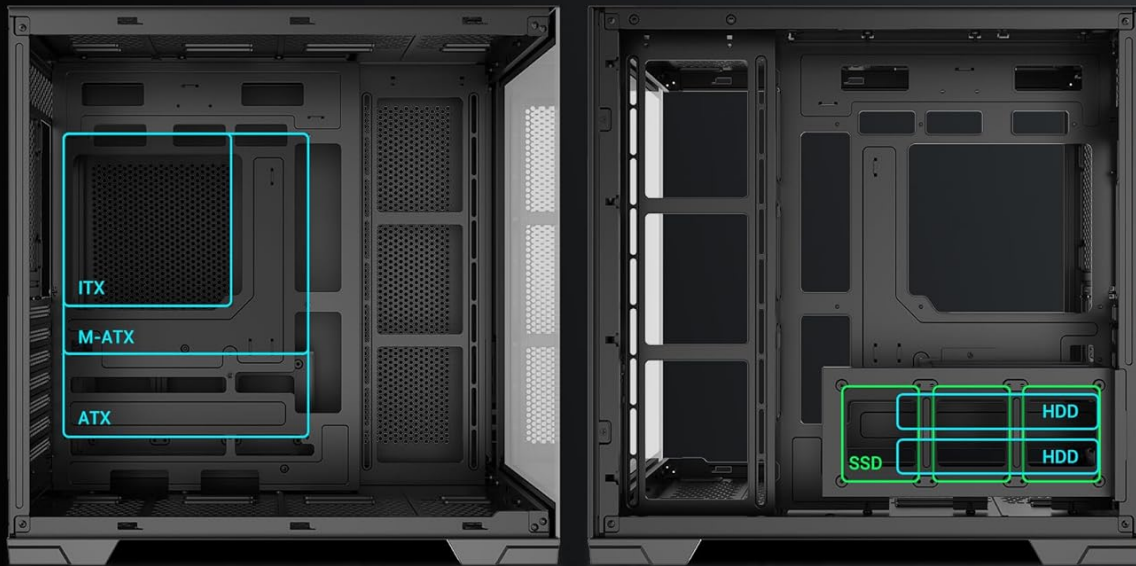


Image 5.2.1: Visual guide for motherboard compatibility, indicating placement for ITX, M-ATX, and ATX motherboards.

5.3. Storage Drive Installation

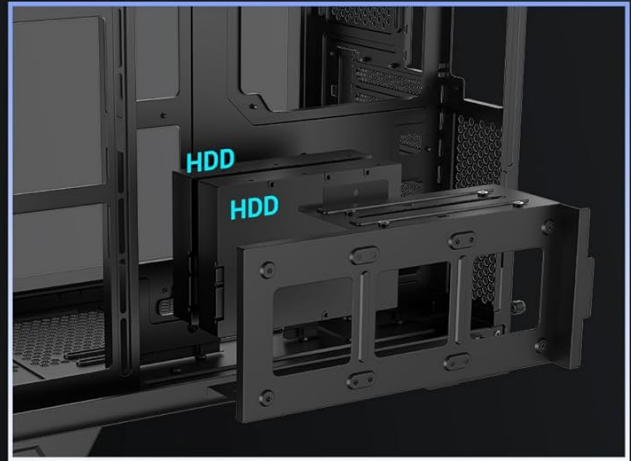
The case provides dedicated brackets for storage. It supports up to 2 x 3.5" HDDs or 3 x 2.5" SSDs. Locate the drive brackets in the rear chamber, secure your drives, and then re-attach the brackets.

STORAGE SUPPORT

The dedicated drive bracket in the rear chamber provides massive storage potential, supporting up to 2 × HDDs or 3 x SSDs



3×SSDs



2×HDDs

Image 5.3.1: Illustration of the dedicated drive bracket in the rear chamber, supporting up to 2 HDDs or 3 SSDs.

5.4. GPU Installation

The SAMA V52 supports graphics cards up to 420mm in length. It also features rotatable PCIe slots for vertical GPU mounting (riser cable sold separately). Remove the necessary PCIe slot covers, insert your GPU, and secure it with screws.



Image 5.4.1: Visual guide demonstrating the ample clearance for GPUs up to 420mm in length.

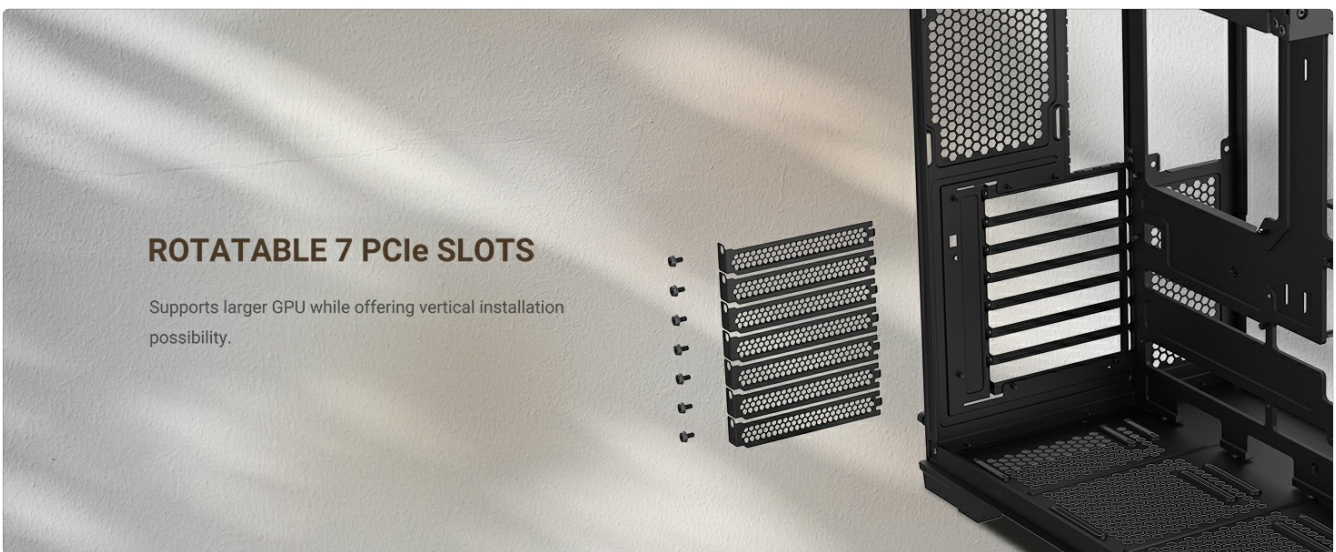


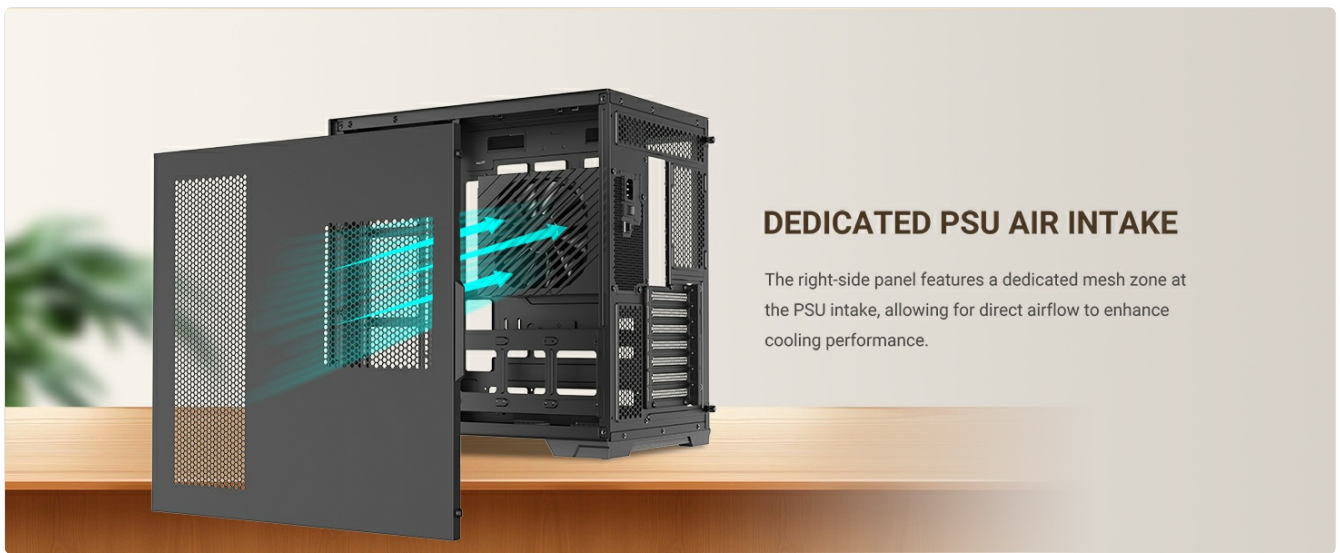
Image 5.4.2: Illustration of the rotatable 7 PCIe slots, allowing for vertical GPU installation.

5.5. PSU Installation

The power supply unit (PSU) is installed in the dedicated rear chamber. The case supports ATX power supplies up to 260mm. Slide the PSU into its bay and secure it with screws from the rear of the case.



Image 5.5.1: Visual guide for PSU compatibility, indicating support for power supplies up to 260mm.



DEDICATED PSU AIR INTAKE

The right-side panel features a dedicated mesh zone at the PSU intake, allowing for direct airflow to enhance cooling performance.

Image 5.5.2: Illustration of the dedicated mesh zone on the right-side panel for PSU air intake, enhancing cooling performance.

5.6. Fan and Radiator Installation

The SAMA V52 comes with 7 pre-installed PWM ARGB fans. Additional fans and radiators can be installed as per the specifications. Ensure correct airflow direction for optimal cooling.

- **Pre-installed Fans:** 1x 120mm rear, 3x 120mm bottom (reverse), 3x 120mm side (reverse).
- **Radiator Support:** Up to 360mm on top, bottom, and side.

UP TO 10 FANS

Supports up to 10 fans and 360mm radiators on the top or bottom.



Rear
120mmx1

Top
120mmx3 / 140mmx2

Bottom
120mmx3 / 140mmx2

Side
120mmx3



Rear
120mm

Top
360mm/280mm/240mm/140mm/120mm

Bottom
360mm/280mm/240mm/140mm/120mm

Side
360mm/240mm/120mm

Image 5.6.2: Visual guide detailing the extensive fan and radiator support, allowing for up to 10 fans and 360mm radiators on multiple sides.

5.7. CPU Cooler Installation

The case supports CPU air coolers up to 158mm in height. For liquid cooling, it supports AIO coolers up to 360mm.



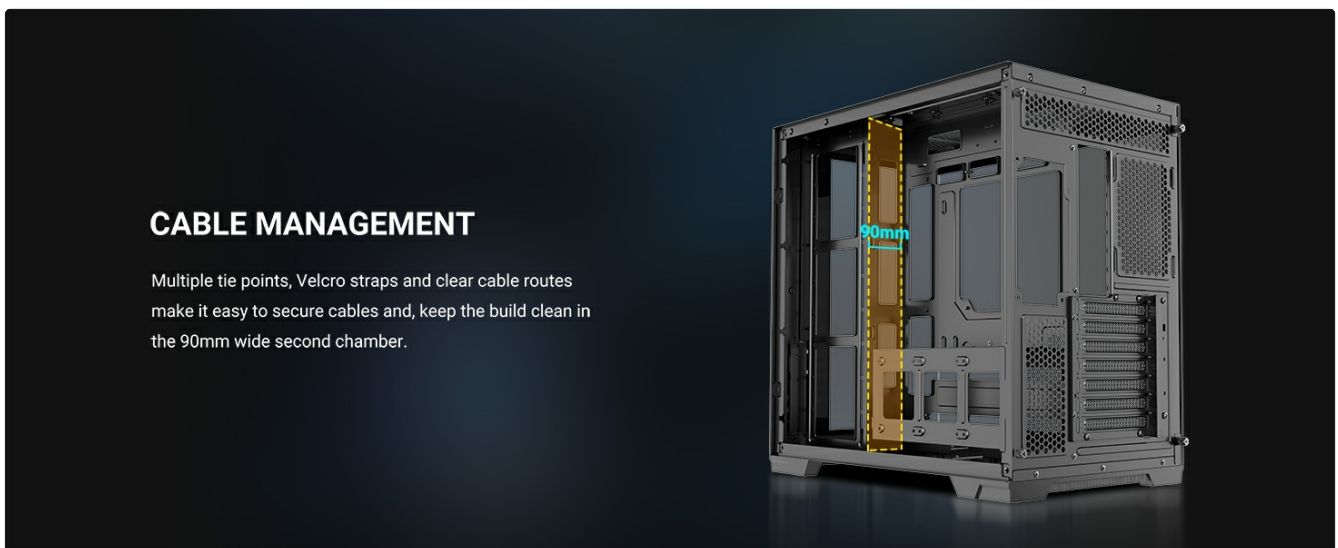
AIR COOLING COMPATIBILITY

158mm clearance to support most dual-tower air coolers.

Image 5.7.1: Illustration of the 158mm clearance for CPU air coolers, accommodating most dual-tower air coolers.

5.8. Cable Management

The dual-chamber design and 90mm wide second chamber provide ample space for cable routing. Utilize the multiple tie points and included Velcro straps to organize cables for a clean build and improved airflow.



CABLE MANAGEMENT

Multiple tie points, Velcro straps and clear cable routes make it easy to secure cables and, keep the build clean in the 90mm wide second chamber.

Image 5.8.1: Visual representation of the cable management area, highlighting multiple tie points and clear cable routes within the 90mm wide second chamber.

5.9. Front I/O Connections

Connect the front I/O cables from the case to the corresponding headers on your motherboard. The front panel includes:

- 1 x USB 3.2 Gen2 Type-C Port
- 2 x USB 3.0 Ports
- HD Audio (Headphone/Microphone)
- Power Button
- LED Control Button



Image 5.9.1: Detailed view of the front I/O panel, indicating the Power, LED, HD Audio, USB 3.0, and Type-C USB 3.2 Gen2 ports.

6. OPERATING

6.1. Power On

After all components are securely installed and cables connected, close the side panels. Connect your PC to a power source and press the power button on the front I/O panel to turn on your system.

6.2. ARGB Lighting Control

The pre-installed ARGB fans are connected to an ARGB hub. You can control the lighting effects in two ways:

- **Case LED Button:** Press the LED control button on the front I/O panel to cycle through various pre-set lighting modes.
- **Motherboard Sync:** If your motherboard supports ARGB synchronization (e.g., ASUS Aura Sync, MSI Mystic Light Sync, ASRock Polychrome Sync), connect the ARGB hub to the motherboard's 3-pin 5V ARGB header.

You can then control the lighting via your motherboard's software.



Image 6.2.1: Illustration of ARGB lighting control options, including motherboard synchronization with popular software.

7. MAINTENANCE

7.1. Cleaning Dust Filters

The SAMA V52 is equipped with magnetic dust filters on the top and bottom panels. Regularly clean these filters to maintain optimal airflow and prevent dust buildup inside the case.

- Gently remove the magnetic dust filters.
- Clean them with a soft brush or rinse with water. Ensure they are completely dry before reattaching.



Image 7.1.1: Illustration of the top and bottom magnetic dust filters, designed for easy maintenance.

7.2. Cleaning Tempered Glass Panels

Use a microfiber cloth and a non-abrasive glass cleaner to clean the tempered glass panels. Avoid harsh chemicals or abrasive materials that could scratch the glass.

8. TROUBLESHOOTING

If you encounter issues during or after assembly, consider the following common troubleshooting steps:

- **No Power:** Ensure all power cables (24-pin ATX, 8-pin CPU, PCIe power, SATA power) are securely connected. Check the power switch on the PSU and the wall outlet.
- **No Display:** Verify that the GPU is correctly seated in the PCIe slot and that the display cable is connected to the GPU (not the motherboard, unless using integrated graphics).
- **Fans Not Spinning/No RGB:** Check fan power connections to the motherboard or ARGB hub. Ensure the ARGB hub is powered and connected to the motherboard's ARGB header if using software control.
- **Overheating:** Confirm all fans are spinning in the correct direction for optimal airflow. Ensure CPU cooler and GPU fans are functioning. Clean dust filters.
- **Loose Connections:** Re-seat all components (RAM, GPU, storage drives) and re-check all cable connections.

9. WARRANTY AND SUPPORT

SAMA products are designed for quality and reliability. For warranty information, technical support, or to report any issues, please refer to the official SAMA website or contact their customer service. Keep your proof of purchase for warranty claims.

Official SAMA Website: [SAMA Official Store](#)