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Zalman P50 DS

Zalman P50 DS Medium Tower Panoramic PC Case User Manual

Model: P50 DS



1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Zalman P50 DS Medium Tower Panoramic PC Case. Please read this manual thoroughly before beginning assembly to ensure proper setup and optimal performance.

2. PRODUCT FEATURES

The Zalman P50 DS is a medium tower PC case designed for a panoramic view of your internal components. Key features include:

- Panoramic Viewing Angle:** Two tempered glass panels provide an unobstructed view of your PC build.
- Integrated Display:** A real-time display shows CPU and GPU temperatures.
- Motherboard Compatibility:** Supports ATX, Micro ATX, and Mini ITX motherboards.
- Graphics Card Support:** Accommodates graphics cards up to 435mm in length.
- Pre-installed ARGB Fans:** Equipped with four 120mm ARGB fans for efficient cooling and customizable lighting.
- Screwless Concept:** Designed for ease of assembly with clip-based mechanisms where applicable.



Figure 2.1: The Zalman P50 DS case showcasing its panoramic design and internal structure.

3. SPECIFICATIONS

Feature	Detail
Brand	Zalman
Model Name	P50 DS
Item Model Number	ZM-P50DSWH
Case Type	Medium Tower
Motherboard Compatibility	ATX, Micro ATX, Mini ITX
Maximum GPU Length	435mm

Dimensions (LxWxH)	18.9 x 20.16 x 9.45 inches
Item Weight	30.1 pounds (13.7 Kilograms)
Material	Alloy Steel, Tempered Glass, Plastic
Cooling Method	Air (4x 120mm ARGB fans pre-installed)
Power Supply Mounting	Bottom Mount
Color	White

4. SETUP AND INSTALLATION

Follow these steps for proper assembly and installation of your PC components into the Zalman P50 DS case.

4.1. Preparing the Case

1. Carefully unpack the case and remove all packaging materials.
2. Place the case on a stable, flat surface.
3. Remove the tempered glass side panels by gently unlatching or unscrewing them as per the case design.
Refer to the specific mechanism for your model.



Figure 4.1: An assembled Zalman P50 DS case with components and active ARGB fans.

4.2. Motherboard Installation

1. Install the necessary standoffs for your ATX, Micro ATX, or Mini ITX motherboard. The case typically comes with pre-installed standoffs for standard ATX.
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 PSU mounting area at the bottom of the case.
2. Slide the PSU into its designated bay.
3. Secure the PSU with screws from the rear of the case.

4.4. Storage Drive Installation

The case supports various storage configurations. Refer to the internal layout for specific 2.5" SSD and 3.5" HDD mounting points. Utilize the screwless or clip-based mechanisms where available.



Figure 4.2: The rear side of the case, illustrating cable routing options and potential drive mounting locations.

4.5. Graphics Card (GPU) Installation

1. Remove the necessary expansion 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 435mm in length.

4.6. Connecting Front Panel I/O and Display

Connect the front panel cables (USB, audio, power/reset switches) to their corresponding headers on your motherboard. The integrated CPU/GPU temperature display connects via a USB 2.0 header on your motherboard. Ensure all connections are secure.



Figure 4.3: The front panel with USB ports and the integrated display showing system temperatures.

5. OPERATING INSTRUCTIONS

5.1. ARGB Fan Control

The Zalman P50 DS comes with four pre-installed 120mm ARGB fans. These fans can be controlled via:

- **Motherboard Sync:** Connect the ARGB cables to a compatible 3-pin 5V ARGB header on your motherboard and use your motherboard's software to control lighting effects.
- **Integrated Controller:** If your motherboard does not have an ARGB header, the case may include a basic controller. Refer to the case's internal wiring for connection details. The review mentions that the ARGB controller is located inside the rear panel and can be controlled by pressing the reset button on the case.



Figure 5.1: Customizable ARGB lighting effects from the pre-installed fans.

5.2. CPU/GPU Temperature Display

The integrated display provides real-time monitoring of your CPU and GPU temperatures, along with the current time. To ensure proper functionality, download and install the dedicated software from the official Zalman website. The display connects to a USB 2.0 header on your motherboard.

6. MAINTENANCE

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

- **Dust Filters:** Periodically remove and clean the dust filters located on the top, bottom, and front (if applicable) of the case. Use compressed air or a soft brush.
- **Tempered Glass Panels:** Clean the tempered glass panels with a soft, lint-free cloth and a glass cleaner.

Avoid abrasive materials that could scratch the surface.

- **Interior Cleaning:** Use compressed air to remove dust from internal components and fan blades. Ensure the system is powered off and unplugged before cleaning.

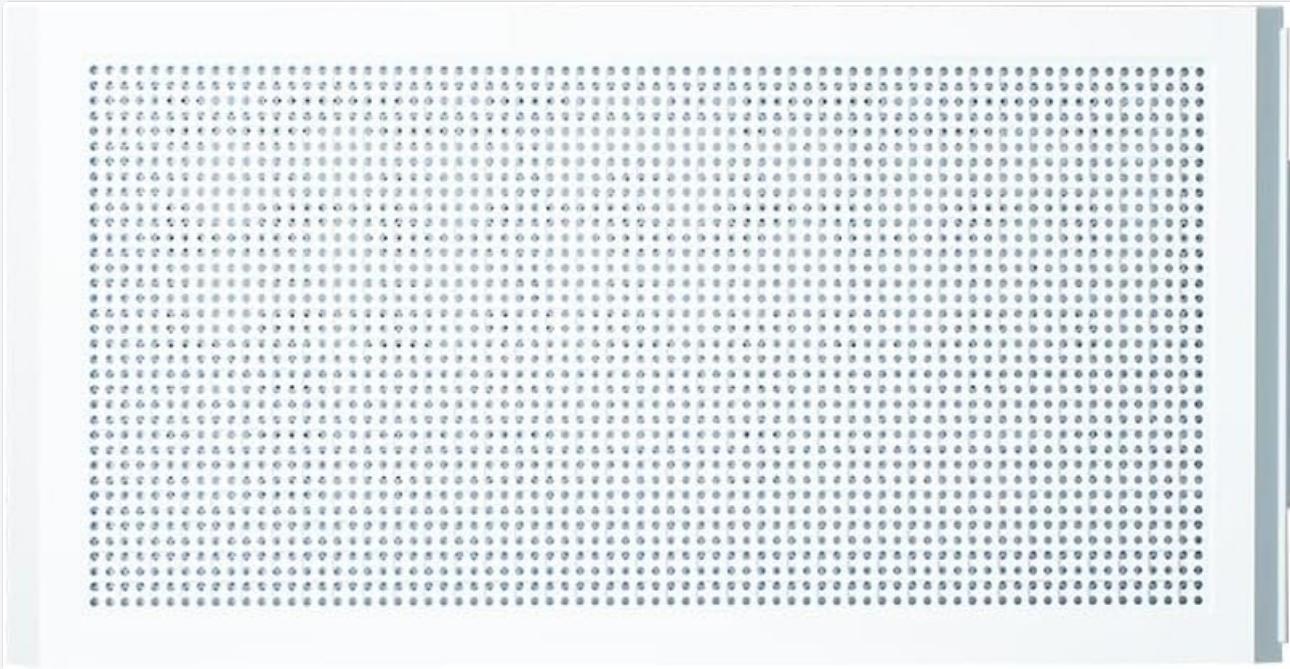


Figure 6.1: Example of a mesh panel, which should be regularly cleaned to maintain airflow.

7. TROUBLESHOOTING

If you encounter issues with your Zalman P50 DS PC case, refer to the following common solutions:

- **Display Not Working:**
 - Ensure the USB 2.0 header cable from the display is securely connected to your motherboard.
 - Verify that the dedicated display software is installed from the official Zalman website.
 - Restart your computer after software installation.
- **ARGB Fans Not Lighting Up/Incorrectly:**
 - Check all ARGB connections to the motherboard header or the integrated controller.
 - Ensure the ARGB controller (if used) is powered correctly.
 - If using motherboard sync, verify your motherboard's ARGB software is installed and configured correctly.
 - If using the integrated controller, try cycling through modes using the reset button (if configured for ARGB control).
- **Poor Airflow/High Temperatures:**
 - Clean all dust filters and internal components.
 - Ensure fans are spinning correctly and oriented for optimal airflow (intake/exhaust).
 - Verify that no cables are obstructing airflow paths.

8. WARRANTY AND SUPPORT

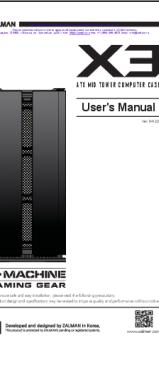
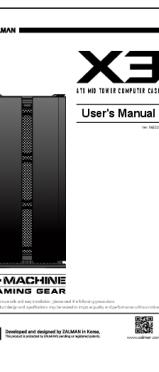
For warranty information and technical support, please refer to the official Zalman website or contact their customer

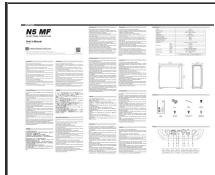
service directly. Keep your proof of purchase for warranty claims.

Official Zalman Website: www.zalman.com

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Related Documents - P50 DS

	<p>Zalman P50 / P50 DS ATX Mid-Tower Computer Case User Manual</p> <p>User's manual for the Zalman P50 and P50 DS ATX Mid-Tower Computer Case, detailing installation precautions, specifications, component compatibility, and system monitoring features.</p>
	<p>Zalman X3 ATX Mid-Tower Computer Case User Manual</p> <p>Comprehensive user manual for the Zalman X3 ATX Mid-Tower computer case. Details installation steps, technical specifications, accessories, I/O ports, RGB LED controller, fan specs, and warranty information for PC builders.</p>
	<p>Zalman R2 ATX Mid Tower Case User's Manual</p> <p>Comprehensive user manual for the Zalman R2 ATX Mid Tower Case, detailing precautions, specifications, accessories, and step-by-step installation instructions.</p>
	<p>ZALMAN X3 ATX Mid Tower Computer Case User's Manual</p> <p>Comprehensive user's manual for the ZALMAN X3 ATX Mid Tower Computer Case, covering installation precautions, detailed specifications, component compatibility, and assembly instructions for building a PC.</p>



[Zalman N5 MF ATX Mid-Tower Computer Case User Manual](#)

Comprehensive user manual for the Zalman N5 MF ATX Mid-Tower Computer Case, detailing installation steps, precautions, technical specifications, accessories, I/O ports, and warranty information.



[Zalman Z1 NEO ATX Mid Tower Computer Case Installation Guide](#)

Comprehensive installation guide for the Zalman Z1 NEO ATX Mid Tower Computer Case. Covers product overview, safety precautions, component identification, step-by-step installation of motherboard, drives, and cables, front I/O port details, and warranty information. Includes detailed textual descriptions of diagrams.