AeroCool ACCM-PB2904311

AeroCool Prism-G-BK-V2 Mid Tower ATX PC Case User Manual

Model: ACCM-PB2904311 | Brand: AeroCool

1. INTRODUCTION AND OVERVIEW

The AeroCool Prism-G-BK-V2 is a mid-tower ATX PC case designed for gaming and high-performance builds. It features a stylish design with a mesh and tempered glass front panel, complemented by a full tempered glass side panel, ensuring both aesthetic appeal and optimal airflow. This case supports various cooling configurations, including comprehensive liquid cooling, and offers convenient features like vertical GPU mounting and efficient cable management. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your PC case.

Figure 1.1: Overview of the AeroCool Prism-G-BK-V2 Mid Tower PC Case. This image displays the case from an angled front-left perspective, highlighting its mesh and tempered glass front panel, the four pre-installed RGB fans, and the full tempered glass side panel.

2. KEY FEATURES

- **Stylish Design with Enhanced Airflow:** Features a mesh and tempered glass front panel, along with a full tempered glass side panel, providing a sleek look while ensuring optimal airflow to keep your components cool.

Figure 2.1: Close-up view of the tempered glass front panel design, showcasing the integrated RGB fans and mesh sections for airflow.

- **Efficient Cooling System:** Pre-installed with four 12cm fixed RGB fans (three at the front and one at the rear), delivering effective cooling and vibrant lighting to enhance your gaming setup.
- **Vertical GPU Mounting:** Equipped with two additional vertical expansion slots, allowing for vertical graphics card installation to showcase your GPU and improve airflow.
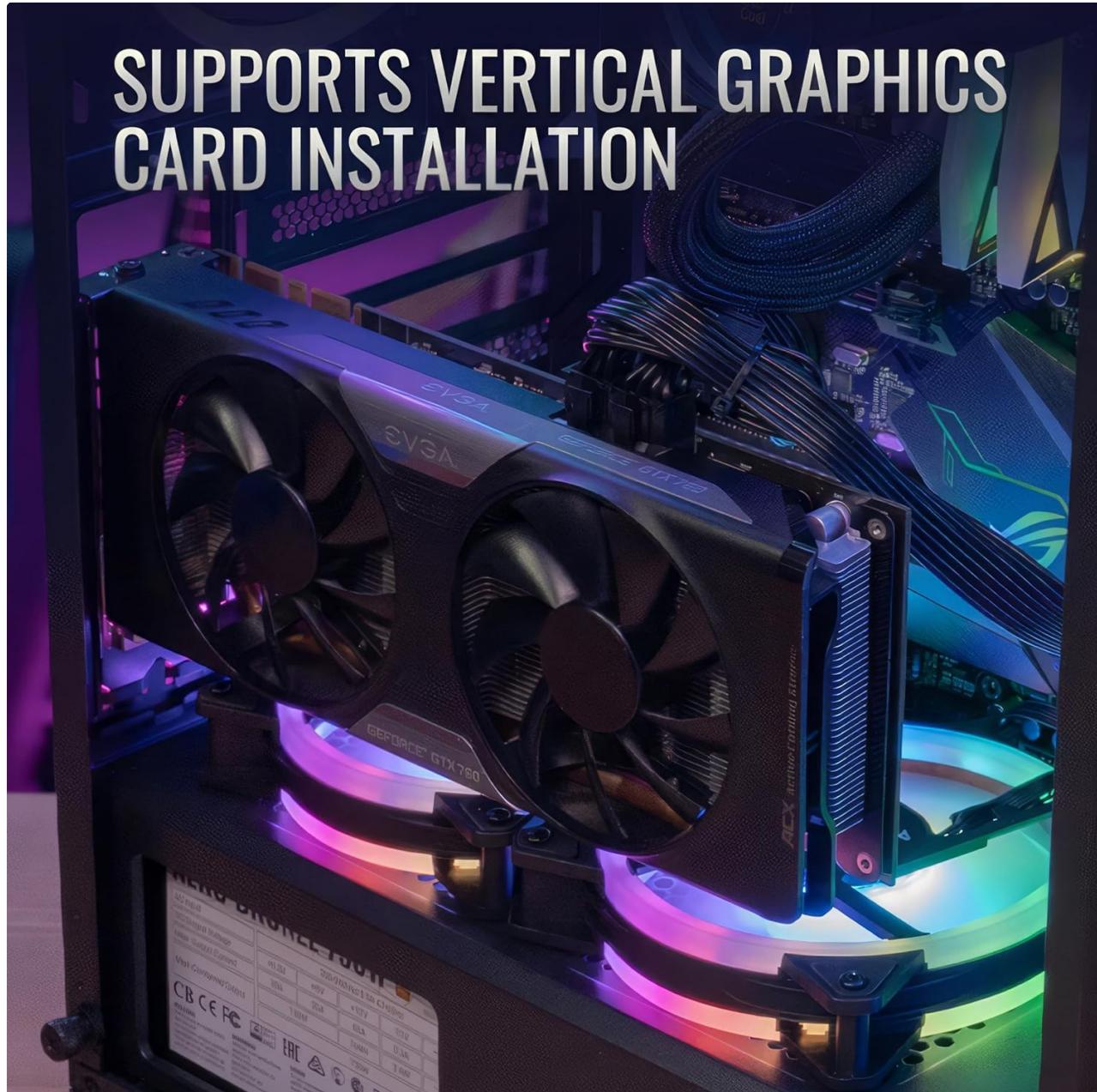
Figure 2.2: Illustration of a graphics card installed vertically within the case, demonstrating the dedicated vertical expansion slots.

- **Comprehensive Liquid Cooling Support:** Supports liquid cooling solutions in the front (up to 360mm radiator), top (up to 280mm radiator), and rear (120mm radiator) for maximum cooling efficiency.

BUILT FOR HIGH PERFORMANCE

Supports GPU up to 346mm (without front radiator)
Supports CPU cooler up to 164mm

Figure 2.3: Diagram indicating the various locations and sizes for liquid cooling radiator installation within the case (front, top, rear).

- **Spacious Interior for High-Performance Builds:** Accommodates ATX, Micro-ATX, and Mini-ITX motherboards, CPU coolers up to 164mm in height, and high-end graphics cards up to 346mm in length (without front radiator), providing ample space for your gaming components.

LIQUID COOLING

Front: 120/240/280/360mm Radiator (Optional)
Top: 120/240/280mm Radiator (Optional) ((Fan + Radiator) thickness <55mm)
Rear: 120mm Radiator (Optional)
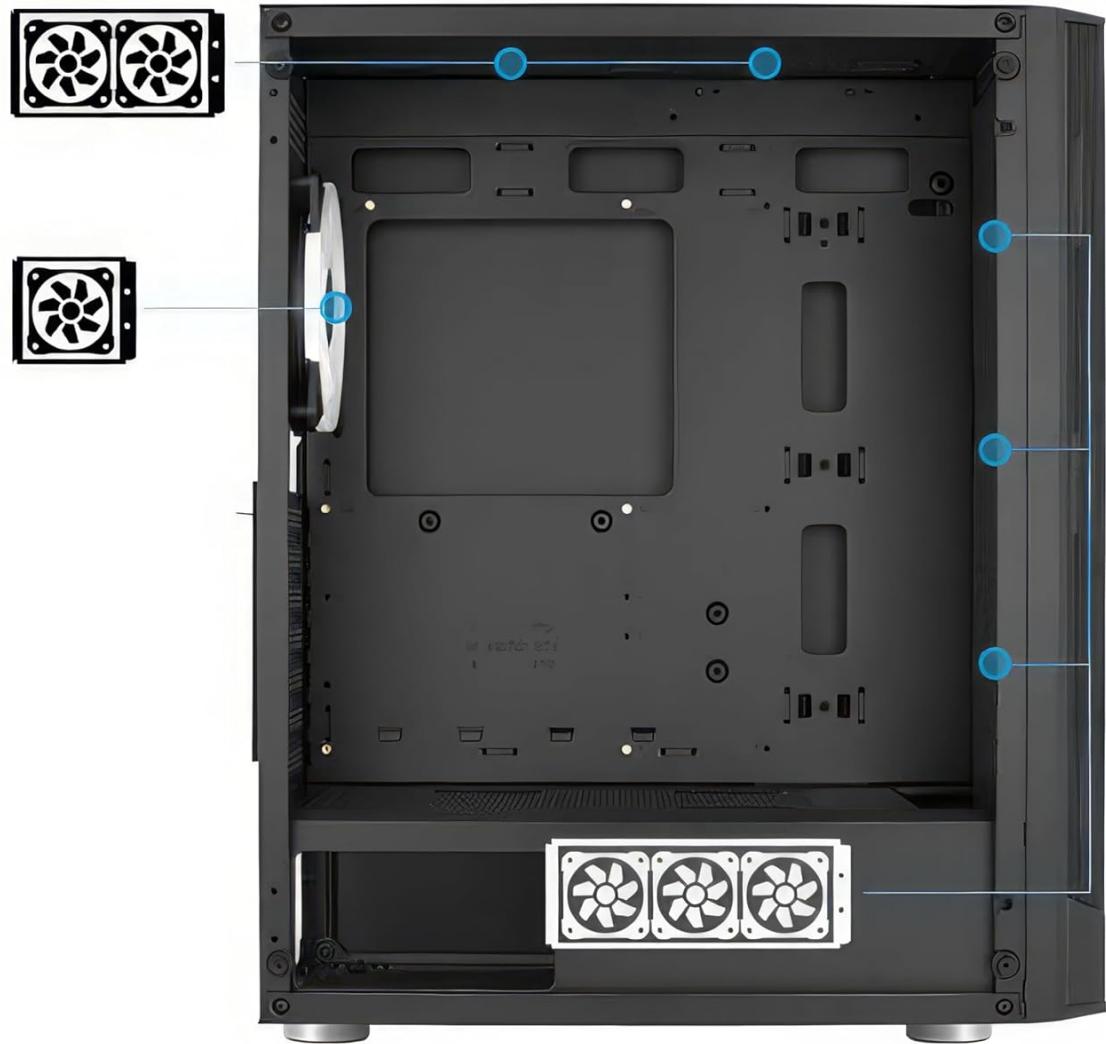
Figure 2.4: Internal view of the case highlighting maximum supported dimensions for CPU coolers (164mm) and graphics cards (346mm).

- **Efficient Cable Management:** Designed with features to facilitate neat and efficient cable routing, improving airflow and aesthetics.

Figure 2.5: Close-up view of the cable management system, showing routing channels and tie-down points behind the motherboard tray.

3. SETUP GUIDE

Follow these steps to properly set up your AeroCool Prism-G-BK-V2 PC case and install your components.

1. **Unboxing and Inspection:** Carefully remove the case from its packaging. Inspect for any shipping damage. Retain all accessories, screws, and manuals.

2. **Side Panel Removal:** Gently unscrew and remove the tempered glass side panel. Place it on a soft, flat surface to prevent scratches.

Figure 3.1: The full tempered glass side panel of the PC case, which can be removed for component installation and access.

3. **Motherboard Installation:** Install the necessary standoffs for your motherboard form factor (ATX, Micro-ATX, Mini-ITX). Carefully place your motherboard into the case and secure it with screws.

4. **Power Supply Installation:** Install your power supply unit (PSU) into the dedicated compartment, typically at the bottom rear of the case. Secure it with screws.

5. **Storage Drive Installation:** Install your SSDs and HDDs into the designated drive bays. Refer to the case's internal layout for specific mounting points.

6. **Graphics Card (GPU) Installation:** Insert your graphics card into the appropriate PCIe slot on your motherboard. If opting for vertical GPU mounting, use the provided vertical expansion slots and a compatible riser cable (sold separately).

7. **Cable Management:** Route all power and data cables neatly behind the motherboard tray using the integrated cable management features. This improves airflow and aesthetics.

8. **Fan and Radiator Installation (Optional):** If installing additional fans or liquid cooling radiators, refer to the "Key Features" section for supported sizes and locations.

9. **Final Assembly:** Once all components are installed and cables are managed, reattach the side panel.

4. OPERATING INSTRUCTIONS

The AeroCool Prism-G-BK-V2 PC case is a housing for your computer components. Its operation is primarily tied to the functionality of the installed components.

- **Power On:** Connect your power supply to a wall outlet. Press the power button on the front I/O panel of the case to turn on your computer.

- **Fan Operation:** The pre-installed 12cm fixed RGB fans will begin operating upon system power-on. Their speed is typically controlled by the motherboard or a fan controller if one is connected.

- **RGB Lighting:** The fixed RGB fans illuminate automatically. Control over RGB effects (if any) depends on how the fans are connected to your motherboard or a dedicated RGB controller. Consult your motherboard manual for RGB header compatibility and software control.

- **Front I/O Ports:** Utilize the front panel USB 2.0 ports and audio jacks for connecting peripherals.

5. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean dust from the case, especially from fan filters and mesh panels. Use compressed air or a soft brush. Ensure the system is powered off and unplugged before cleaning.

- **Fan Maintenance:** Check fans for dust buildup and ensure they spin freely. Clean fan blades gently if necessary.

- **Cable Management Check:** Occasionally inspect cable routing to ensure no cables are obstructing airflow or fan operation.

- **Tempered Glass Care:** Clean tempered glass panels with a microfiber cloth and a non-abrasive glass cleaner. Avoid harsh chemicals.

6. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **Fans Not Spinning:**

  - Check if fan power cables are securely connected to the motherboard or fan controller.
  - Ensure the power supply is functioning correctly.
  - Verify fan settings in your motherboard's BIOS/UEFI.

- **RGB Lighting Not Working:**

  - Confirm RGB cables are correctly connected to the motherboard's RGB header or a dedicated RGB controller.
  - Check if RGB software (if applicable) is installed and configured correctly.

- **Poor Airflow/High Temperatures:**

  - Ensure all fans are spinning in the correct direction (intake/exhaust).
  - Clean dust filters and internal components.
  - Verify proper cable management to avoid airflow obstruction.
  - Consider adding additional fans or upgrading to a liquid cooling solution if temperatures remain high.

- **Front I/O Ports Not Functioning:**
  - Check if the front panel connectors (USB, audio, power, reset) are correctly plugged into the motherboard headers. Refer to your motherboard manual for correct pin assignments.

7. SPECIFICATIONS

| Feature	Detail
Brand	AeroCool
Model Name	Prism G V2 FRGB (Noir)
Item Model Number	ACCM-PB2904311
Case Type	Mid Tower
Motherboard Compatibility	ATX, Micro ATX, Mini ITX
Material	Aluminum, Alloy Steel
Color	Black
Item Weight	13.73 pounds
Product Dimensions (LxWxH)	6.46 x 13.62 x 6.46 inches
Number of USB 2.0 Ports	2
Pre-installed Fans	4x 12cm Fixed RGB Fans (3 front, 1 rear)
Max GPU Length	346mm (without front radiator)
Max CPU Cooler Height	164mm
Liquid Cooling Support (Front)	Up to 360mm radiator
Liquid Cooling Support (Top)	Up to 280mm radiator
Liquid Cooling Support (Rear)	120mm radiator
Light Color	RGB
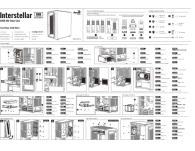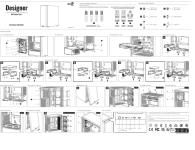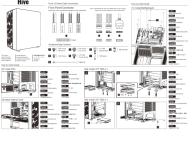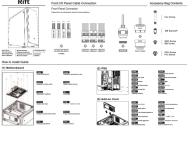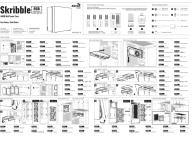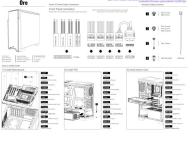
8. WARRANTY AND SUPPORT

For specific warranty information regarding your AeroCool Prism-G-BK-V2 PC case, please refer to the official AeroCool website or the warranty card included with your product. Warranty terms and conditions may vary by region and retailer.

For technical support, product inquiries, or assistance with troubleshooting beyond this manual, please contact AeroCool customer support through their official channels. You can typically find contact information on the AeroCool website (www.aerocool.io).

Note: Protection plans offered by third-party retailers (e.g., Amazon) are separate from the manufacturer's warranty and provide additional coverage. Please review the terms of any such plans directly with the provider.

Related Documents - ACCM-PB2904311

	AeroCool Interstellar ARGB Mid Tower PC Case User Manual User manual for the AeroCool Interstellar ARGB Mid Tower PC Case, detailing installation steps for components like motherboards, PSUs, HDDs, SSDs, fans, and radiators. Includes front I/O connection guide and RGB Fan Hub setup for various motherboard RGB systems. Features accessory list and important notes.
	AeroCool Designer Mid Tower Case Installation and ARGB Setup Guide Comprehensive guide for installing the AeroCool Designer Mid Tower PC Case, including component mounting, front panel connections, and detailed instructions for ARGB lighting setup with various motherboard sync technologies.
	AeroCool Hive PC Case User Manual and Installation Guide User manual for the AeroCool Hive PC case, providing detailed instructions for installing components such as the motherboard, PSU, storage drives, expansion cards, radiators, and fans, along with front panel connections and I/O port descriptions.
	AeroCool Rift BG Computer Case Installation Guide Step-by-step guide for installing the AeroCool Rift BG PC case, covering front panel connections, accessory components, and the installation of motherboards, PSUs, add-on cards, 3.5" HDDs, 2.5" SSDs, and fans.
	AeroCool Skribble RGB ARGB Mid Tower Case Installation Guide Detailed installation instructions for the AeroCool Skribble RGB ARGB Mid Tower PC Case. This guide covers motherboard, PSU, SSD, fan, and radiator installation, along with I/O panel and RGB fan hub connectivity, presented in English.
	Aerocool Ore PC Case Installation Guide - Step-by-Step Assembly Comprehensive installation manual for the Aerocool Ore Miditower PC case (model ORE FRGB-G-BK-V1). Covers motherboard, PSU, add-on cards, storage drives (SSD/HDD), and fan/radiator installation. Includes I/O panel details and accessory guide.