Montech AX140B

Montech AX 140 ARGB Standard Fan User Manual

INTRODUCTION

Welcome to the user manual for your Montech AX 140 ARGB Standard Fan. This document provides essential information for the proper installation, operation, and maintenance of your new cooling fan. Please read this manual thoroughly before installation and retain it for future reference.

SAFETY INFORMATION

Observe the following safety guidelines to prevent damage to the product or injury to yourself:

- Always disconnect your computer from the power supply before installing or handling internal components.
- Handle the fan and its components with care to avoid damage to delicate parts.
- Ensure proper grounding to prevent electrostatic discharge (ESD) damage.
- Do not expose the fan to liquids or excessive moisture.
- Keep out of reach of children.

PACKAGE CONTENTS

Please verify that all items are present in your package:

- Montech AX 140 ARGB Standard Fan
- Mounting Screws

SPECIFICATIONS

Feature	Detail
Brand	Montech
Model Number	AX140B
Fan Size	140mm

Feature	Detail
Maximum Rotational Speed	1600 RPM
Noise Level	27 dB
Power Connector Type	4-Pin PWM
ARGB Connector Type	3-Pin 5V Addressable RGB
Voltage	12 Volts (DC)
Wattage	32.6 watts
Cooling Method	Air
Compatible Devices	Desktop
Material	Plastic

SETUP AND INSTALLATION

Identifying Components

The Montech AX 140 ARGB fan consists of the fan frame, fan blades, and integrated ARGB lighting. It features a 4-Pin PWM connector for fan speed control and a standard 3-Pin 5V ARGB connector for lighting synchronization.

Figure 1: Exploded view of the Montech AX 140 ARGB fan, illustrating its main components including the fan blades, motor, and the ARGB illuminated frame.

Mounting the Fan

1. Ensure your computer system is powered off and disconnected from the main power supply.
2. Identify the desired mounting location within your PC case. Common locations include front, rear, top, or bottom fan mounts.
3. Position the Montech AX 140 ARGB fan against the mounting holes, ensuring the airflow direction is correct for your cooling setup (typically, the side with the frame supports and sticker indicates exhaust).
4. Secure the fan using the provided mounting screws. Tighten screws evenly to prevent vibration.

Figure 2: Front view of the Montech AX 140 ARGB fan, highlighting the fan blades and the vibrant ARGB lighting ring.

Connecting the Fan

1. Locate an available 4-Pin fan header on your motherboard. Connect the fan's 4-Pin PWM cable to this header. This allows the motherboard to control fan speed.

2. Locate an available 3-Pin 5V ARGB header (Addressable RGB) on your motherboard. Connect the fan's ARGB cable to this header. Ensure correct polarity to avoid damage. **Do not connect to a 12V RGB header.**

3. If your motherboard does not have an ARGB header, you may need a separate ARGB controller (not included) to manage the lighting effects.

Figure 3: Rear view of the Montech AX 140 ARGB fan, displaying the central motor hub with product information and the attached power and ARGB cables.

OPERATING INSTRUCTIONS

Fan Speed Control (PWM)

The Montech AX 140 ARGB fan utilizes Pulse Width Modulation (PWM) for precise speed control. Once connected to a 4-Pin PWM header on your motherboard, you can manage the fan speed through your motherboard's BIOS/UEFI settings or dedicated software provided by your motherboard manufacturer. This allows for dynamic adjustment of fan speed based on system temperature, optimizing cooling performance and noise levels.

ARGB Lighting Control

The Addressable RGB (ARGB) lighting can be controlled via your motherboard's ARGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync). Ensure your motherboard's software is up-to-date for the best lighting customization experience.

MAINTENANCE

Cleaning

To maintain optimal performance and airflow, regularly clean your Montech AX 140 ARGB fan:

- Power off your computer and disconnect it from the power source.
- Use compressed air to gently remove dust accumulation from the fan blades and frame. Hold the fan blades to prevent them from spinning rapidly during cleaning, which can damage the bearings.
- For stubborn dirt, a soft, dry cloth can be used. Avoid using liquid cleaners directly on the fan.

TROUBLESHOOTING

Fan Not Spinning

- Check if the 4-Pin PWM connector is securely attached to the motherboard fan header.
- Verify that the fan header is enabled in your motherboard's BIOS/UEFI settings.
- Ensure the system is receiving power.

ARGB Lights Not Working

- Confirm the 3-Pin 5V ARGB connector is correctly plugged into a compatible ARGB header on your motherboard. Ensure it is **not** connected to a 12V RGB header.
- Check your motherboard's ARGB control software to ensure lighting effects are enabled and configured.
- If using an external ARGB controller, ensure it is properly powered and configured.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official Montech website or contact Montech customer service. Keep your proof of purchase for warranty claims.