

NZXT HF-28140-B1

NZXT AER RGB 2 140mm PWM Fan Instruction Manual

Model: HF-28140-B1



1. INTRODUCTION

The NZXT AER RGB 2 140mm PWM fan is designed to provide optimal airflow and advanced lighting customization for your PC. This fan integrates with the Hue 2 ecosystem, allowing synchronization with other Hue 2 accessories for a unified lighting experience. Featuring fluid dynamic bearings and winglet tips, the AER RGB 2 fan offers efficient cooling while minimizing operational noise.

Key Features:

- **Performance Engineered:** Designed with a chamfered-intake and exhaust to boost overall airflow and pressure.
- **Uniquely Shaped Light Guide:** Creates stunning visual effects with uniform light dispersion.
- **Winglet Tips:** Fan blades minimize drag and enhance fan performance.
- **Fluid Dynamic Bearing (FDB):** Patented copper FDB maintains consistent lubrication, reducing bearing noise and extending lifespan.
- **CAM-Powered Customization:** Seamless software control for nearly infinite lighting and fan speed customization.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x NZXT AER RGB 2 140mm Case Fan
- 1 x 500mm Fan Connection Cable
- 1 x 50mm Fan-to-Fan Cable
- 1 x 500mm Fan-to-Accessory Cable



Image 1: NZXT AER RGB 2 140mm Fan. This image displays the fan from a front-side angle, showcasing its black frame and blades with a vibrant, multi-color RGB light ring.

3. SPECIFICATIONS

Feature	Specification
Model Number	HF-28140-B1
Product Dimensions	5.5"L x 1"W x 5.5"H (140mm x 25mm x 140mm)
Power Connector Type	3-Pin
Voltage	12 Volts
Wattage	5 watts
Cooling Method	Air
Compatible Devices	Personal Computer

Feature	Specification
Noise Level	35 Decibels
Material	Copper (Fluid Dynamic Bearing)
Maximum Rotational Speed	1500 RPM
Manufacturer	NZXT
Date First Available	August 21, 2018

4. SETUP AND INSTALLATION

The NZXT AER RGB 2 fan requires connection to an NZXT Hue 2 controller (sold separately) for RGB lighting and advanced fan control via the NZXT CAM software. Ensure your system is powered off before beginning installation.

Installation Steps:

- Mounting the Fan:** Secure the AER RGB 2 fan to your PC case or radiator using appropriate fan screws. Ensure the fan is oriented correctly for desired airflow (intake or exhaust).
- Connecting to Hue 2 Controller:**
 - Connect the 500mm Fan Connection Cable from the AER RGB 2 fan to an available fan port on your Hue 2 controller.
 - If installing multiple AER RGB 2 fans, use the 50mm Fan-to-Fan Cable to daisy-chain them together. Connect the 'OUT' port of the first fan to the 'IN' port of the next fan.
 - If connecting other Hue 2 accessories, use the 500mm Fan-to-Accessory Cable to connect them to the Hue 2 controller.
- Power Connection:** Connect the 3-pin power connector from the fan to an available fan header on your motherboard or a fan controller.
- Cable Management:** Route cables neatly to ensure proper airflow within your PC case.



Image 2: Side view of the NZXT AER RGB 2 fan, highlighting the 'IN' and 'OUT' ports for daisy-chaining multiple fans or connecting to other Hue 2 accessories.

5. OPERATING THE FAN AND RGB CONTROL

The NZXT AER RGB 2 fan's lighting and speed are controlled through the NZXT CAM software, provided you have a compatible Hue 2 controller connected.

Using NZXT CAM Software:

1. **Download and Install CAM:** Download the latest version of NZXT CAM software from the official NZXT website (www.nzxt.com/cam). Install it on your computer.
2. **Launch CAM:** Open the NZXT CAM software. It should automatically detect your connected Hue 2 controller and AER RGB 2 fans.
3. **Customize Lighting:** Navigate to the 'Lighting' section within CAM. Here you can select from various preset lighting effects, adjust colors, brightness, and speed. You can also create custom lighting profiles.
4. **Control Fan Speed:** In the 'Cooling' or 'Fan Control' section, you can monitor fan speeds and temperatures. Adjust fan curves based on your system's thermal performance needs, choosing between silent, performance,

or custom modes.

5. **Synchronize Effects:** If you have multiple Hue 2 devices, CAM allows you to synchronize lighting effects across all connected components for a cohesive aesthetic.



Image 3: NZXT AER RGB 2 fans installed in a PC case, illuminating the interior with purple RGB lighting. This demonstrates the visual integration of the fans within a system.

Your browser does not support the video tag.

Video 1: Official NZXT AER RGB Case Fan overview. This video demonstrates the various RGB lighting effects and the fan's integration within a PC build, showcasing its aesthetic and functional capabilities.

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your NZXT AER RGB 2 fan.

Cleaning:

- **Dust Removal:** Periodically clean dust from the fan blades and frame using compressed air or a soft, dry cloth. Ensure the fan is powered off and disconnected from the system before cleaning.

- **Avoid Liquids:** Do not use liquid cleaners or immerse the fan in water.

7. TROUBLESHOOTING

If you encounter issues with your NZXT AER RGB 2 fan, refer to the following common solutions:

- **Fan Not Spinning:**
 - Check all power and signal cable connections to the fan and Hue 2 controller.
 - Ensure the fan header on your motherboard or controller is functioning correctly.
 - Verify fan speed settings in NZXT CAM software are not set to 0 RPM or a very low threshold.
- **RGB Lighting Not Working:**
 - Confirm the fan is properly connected to the Hue 2 controller.
 - Ensure the Hue 2 controller is powered and recognized by NZXT CAM.
 - Update NZXT CAM software to the latest version.
 - Check for any conflicting RGB software running on your system.
- **Excessive Noise:**
 - Check for any obstructions (cables, debris) hitting the fan blades.
 - Ensure the fan is securely mounted and not vibrating against the case.
 - Adjust fan speed settings in NZXT CAM to a lower RPM if noise is a concern.

8. WARRANTY AND SUPPORT

NZXT products are covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the official NZXT website or the warranty card included with your product.

Customer Support:

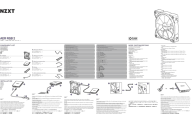
If you require further assistance or have questions not covered in this manual, please visit the official NZXT support page:

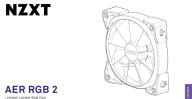


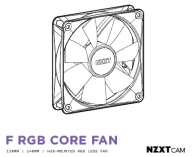

www.nzxt.com/support

You can find FAQs, troubleshooting guides, and contact information for technical support.

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Related Documents - HF-28140-B1

	<p>NZXT Aer RGB 2 Fan Installation and User Guide</p> <p>Comprehensive guide for installing and customizing NZXT Aer RGB 2 fans, including component lists, step-by-step installation instructions, lighting mode customization, troubleshooting, and warranty information.</p>
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 <p>NZXT AER RGB 2</p>	<p>NZXT AER RGB 2 120mm/140mm RGB Fan: Installation Guide and Warranty Information</p> <p>Comprehensive guide for the NZXT AER RGB 2 series 120mm and 140mm RGB fans, covering installation, component list, hardware overview, software requirements, and detailed warranty policy.</p>
 <p>NZXT</p>	<p>NZXT Aer RGB Fan Installation and Warranty Guide</p> <p>Comprehensive guide for installing NZXT Aer RGB fans, including component lists, step-by-step installation instructions, and detailed warranty information. Learn how to connect fans, use extension cables, and understand warranty coverage.</p>
 <p>NZXT</p>	<p>NZXT H1 Mini-ITX Case: Build Guide, Specifications, and Warranty</p> <p>A comprehensive guide to the NZXT H1 Mini-ITX PC case, detailing its components, installation procedures, technical specifications, and global warranty policy. Features a 750W SFX Gold PSU and a 140mm AIO liquid cooler.</p>
 <p>NZXT F RGB CORE FAN</p>	<p>NZXT F RGB Core Fan Installation and User Manual</p> <p>Comprehensive guide for the NZXT F RGB Core Fan, covering component lists, hardware introduction, installation, software setup, warranty policy, and regulatory statements. Includes detailed instructions and multilingual support information.</p>
 <p>NZXT</p>	<p>NZXT Control Hub: Digital RGB Lighting & Fan Speed Controller Manual</p> <p>Comprehensive guide to installing and using the NZXT Control Hub for digital RGB lighting and fan speed control. Includes hardware introduction, component list, installation steps, controller mounting, software setup, compatibility, regulatory information, and warranty details.</p>