

Jonsbo ZB120B

JONSBO ZB-120B 120mm PC Case Fan Instruction Manual

Model: ZB120B | Brand: Jonsbo

1. INTRODUCTION

Thank you for choosing the JONSBO ZB-120B 120mm PC Case Fan. This fan is designed to provide efficient cooling for your computer system while offering customizable ARGB lighting effects. Its unique infinity mirror design and integrated wiring simplify installation and enhance the aesthetic appeal of your PC build. Please read this manual thoroughly before installation and use to ensure proper operation and longevity of the product.

2. SAFETY INFORMATION

Please observe the following safety precautions:

- Ensure your computer system is powered off and unplugged from the wall outlet before installation or maintenance.
- Handle the fan and its components with care to avoid damage.
- Do not attempt to modify the fan or its wiring. Unauthorized modifications may void the warranty and pose electrical hazards.
- Keep the fan away from liquids and excessive moisture.
- This product is intended for use within a computer chassis.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- JONSBO ZB-120B 120mm PC Case Fan (1 unit)
- Mounting Screws



Image: JONSBO ZB-120B fan with its integrated cables for power and ARGB connection.

4. PRODUCT FEATURES

The JONSBO ZB-120B fan offers a blend of performance and aesthetics:

- **Axis / 4-Sides Infinity Mirror:** Features a front thousand-layer mirror illusion and internal/external dual-zone infinity mirror for comprehensive lighting effects.
- **Simplified Wiring:** An integrated joint structure allows for a single-line connection to the motherboard, simplifying cable management.
- **Daisy-Chain ARGB:** 5V ARGB plug with male and female design enables series connection with other compatible lighting devices.
- **PWM Control:** 4-Pin PWM connector allows for precise fan speed control based on system temperature, optimizing cooling and noise levels.
- **Optimal Airflow:** Operates at a maximum rotational speed of 2400 RPM for effective heat dissipation.
- **Durable Construction:** Made from high-quality plastic for reliability.

Front Thousand-layer Mirror Illusion

Internal and external dual zone
thousand layer mirror
Full light effect/echoing embellishment



Image: Illustration of the front thousand-layer mirror illusion, showcasing the depth and complexity of the ARGB lighting effect.

Simplify the Wiring and Ensure Seamless Connectivity

One Line Connection to Motherboard
Easy cable management/neater chassis



Image: Diagram illustrating the simplified wiring design, showing a single cable connection for multiple fans to the motherboard.

5. SETUP AND INSTALLATION

Follow these steps to install your JONSBO ZB-120B PC Case Fan:

- 1. Prepare Your System:** Power off your computer and unplug it from the power source. Open your PC case to access the fan mounting locations.
- 2. Mount the Fan:** Position the fan in your desired location (e.g., front, top, rear, bottom of the case). Use the included mounting screws to secure the fan to the chassis. Ensure the fan is oriented correctly for desired airflow (intake or exhaust).
- 3. Connect Power (PWM):** Locate a 4-Pin PWM fan header on your motherboard. Connect the fan's 4-Pin PWM cable to this header. This allows the motherboard to control the fan speed.
- 4. Connect ARGB Lighting:** Locate a 3-Pin 5V ARGB header on your motherboard. Connect the fan's 3-Pin ARGB cable to this header. If you have multiple JONSBO ZB series fans, you can daisy-chain them using the male and female ARGB connectors, then connect the last fan in the chain to the motherboard header. Ensure you connect to a 5V ARGB header, not a 12V RGB header, to prevent damage.
- 5. Cable Management:** Route the cables neatly to avoid interference with other components and to improve airflow within the case.

6. **Close Case and Power On:** Once all connections are secure, close your PC case, plug in the power, and power on your system.



Image: Multiple JONSBO ZB-120B fans installed in a computer case, showcasing their ARGB lighting and placement.



Colorful Synchronous Light Effect **ARGB**

Synchronize custom lighting effects with the motherboard. Need to connect the motherboard or controller with a 3 Pin 5V optical control interface.



Image: Illustration of ARGB lighting synchronization, indicating compatibility with various motherboard RGB software.

6. OPERATING INSTRUCTIONS

After successful installation, the fan will operate automatically. Fan speed is controlled via the 4-Pin PWM connection, typically managed by your motherboard's BIOS/UEFI settings or dedicated software. ARGB lighting effects are controlled via the 3-Pin 5V ARGB connection, usually through your motherboard's RGB software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome Sync) or a compatible external ARGB controller.

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Video: Official JONSBO video showcasing the ZA/ZB series fans, highlighting their design and ARGB lighting effects. This video demonstrates the visual appeal and features of the fan series.

7. MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the lifespan of your fan:

- **Cleaning:** Periodically clean the fan blades and frame to remove dust buildup. Use compressed air or a soft, dry cloth. Ensure the system is powered off and unplugged before cleaning.
- **Inspection:** Check for any loose connections or signs of wear on the cables.

8. TROUBLESHOOTING

If you encounter issues with your JONSBO ZB-120B fan, consider the following:

- **Fan Not Spinning:**
 - Check if the 4-Pin PWM cable is securely connected to the motherboard fan header.
 - Verify that the fan header is enabled in your motherboard's BIOS/UEFI settings.
 - Test the fan on a different fan header or with a fan controller if available.
- **ARGB Lighting Not Working:**
 - Ensure the 3-Pin 5V ARGB cable is correctly connected to a 5V ARGB header on your motherboard or controller. **Do not connect to a 12V RGB header.**
 - Check your motherboard's RGB software to ensure lighting effects are enabled and configured.
 - If daisy-chaining, ensure all connections between fans are secure.
- **Excessive Noise:**
 - Ensure the fan is securely mounted and not vibrating against the case.
 - Check for any obstructions (e.g., cables) hitting the fan blades.
 - Adjust fan speed settings in your motherboard's BIOS/UEFI or software.

9. SPECIFICATIONS

Feature	Specification
Brand	Jonsbo
Model	ZB120B
Power Connector Type	4-Pin PWM, 3-Pin 5V ARGB

Feature	Specification
Wattage	2.4 watts (Fan), 3.55 watts (LED)
Cooling Method	Air Cooling (Fan)
Compatible Devices	Desktop Computers
Noise Level	37 Decibels (Max)
Material	Plastic
Maximum Rotational Speed	2400 RPM
Included Components	Fan

QUIET/LOW NOISE PWM ARGB FAN

Fine tuning, balancing practical performance and quiet noise

Regular Fan Blade		
Noise dB(A)	Rotational Speed	Air Volume CFM
21.3-37.3	700-2400	21.46-62.40

Reverse Fan Blade		
Noise dB(A)	Rotational Speed	Air Volume CFM
17.3-31.6	700-1800	19.46-44.58



Image: Comparison table showing noise levels, rotational speeds, and air volume for regular and reverse fan blade designs.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Jonsbo website or contact your retailer. Keep your proof of purchase for warranty claims.