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> ID-COOLING AS-120-K Trio 120mm Case Fans User Manual

ID-COOLING AS-120-K TRIO

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Model: AS-120-K TRIO | Brand: ID-COOLING

1. PRODUCT OVERVIEW

The ID-COOLING AS-120-K Trio is a set of three 120mm computer case fans designed for high-performance cooling with low noise operation. These fans feature a hydraulic bearing for durability and quiet performance, with fan speeds ranging from 300 RPM to 2,000 RPM, delivering up to 58 CFM of airflow and 1.94mm-H₂O of static pressure. They are suitable for various cooling applications within a PC, including CPU air coolers, radiators, and general case ventilation.



Image 1.1: Front view of the ID-COOLING AS-120-K Trio 120mm case fan.

2. KEY FEATURES

- **Powerful Airflow:** Fan speeds from 300 RPM to 2,000 RPM, providing up to 58 CFM airflow and 1.94mm-H₂O static pressure.
- **Quiet Operation:** Hydraulic bearing design ensures long-lasting durability and a maximum noise level of 27.2 dBA.
- **Versatile Compatibility:** Suitable for CPU air coolers, radiators, and PC cases as both intake and exhaust fans.
- **Daisy Chain Connectivity:** Simplifies cable management by connecting multiple fans in series.
- **Aesthetic Design:** Black finish integrates seamlessly into most computer case designs.

3. PACKAGE CONTENTS

The ID-COOLING AS-120-K Trio package includes the following components:

- 3 x 120mm Case Fans (AS-120-K TRIO)
- Mounting Hardware (screws)
- (Note: The 'heatsink' component listed in the product data refers to the cooling capability of the fans, not a separate heatsink unit.)

4. INSTALLATION GUIDE

Follow these steps to properly install your ID-COOLING AS-120-K Trio case fans:

4.1 Prepare Your System

1. Power off your computer and unplug it from the wall outlet.
2. Open your computer case to access the fan mounting locations.

4.2 Mounting the Fans

1. Identify the desired mounting location(s) for your fans (e.g., front, top, rear, bottom of the case, or on a CPU cooler/radiator). Ensure proper airflow direction (intake or exhaust) for optimal cooling.
2. Align the fan with the screw holes on your case or radiator. Use the provided mounting screws to secure the fan in place. Do not overtighten.

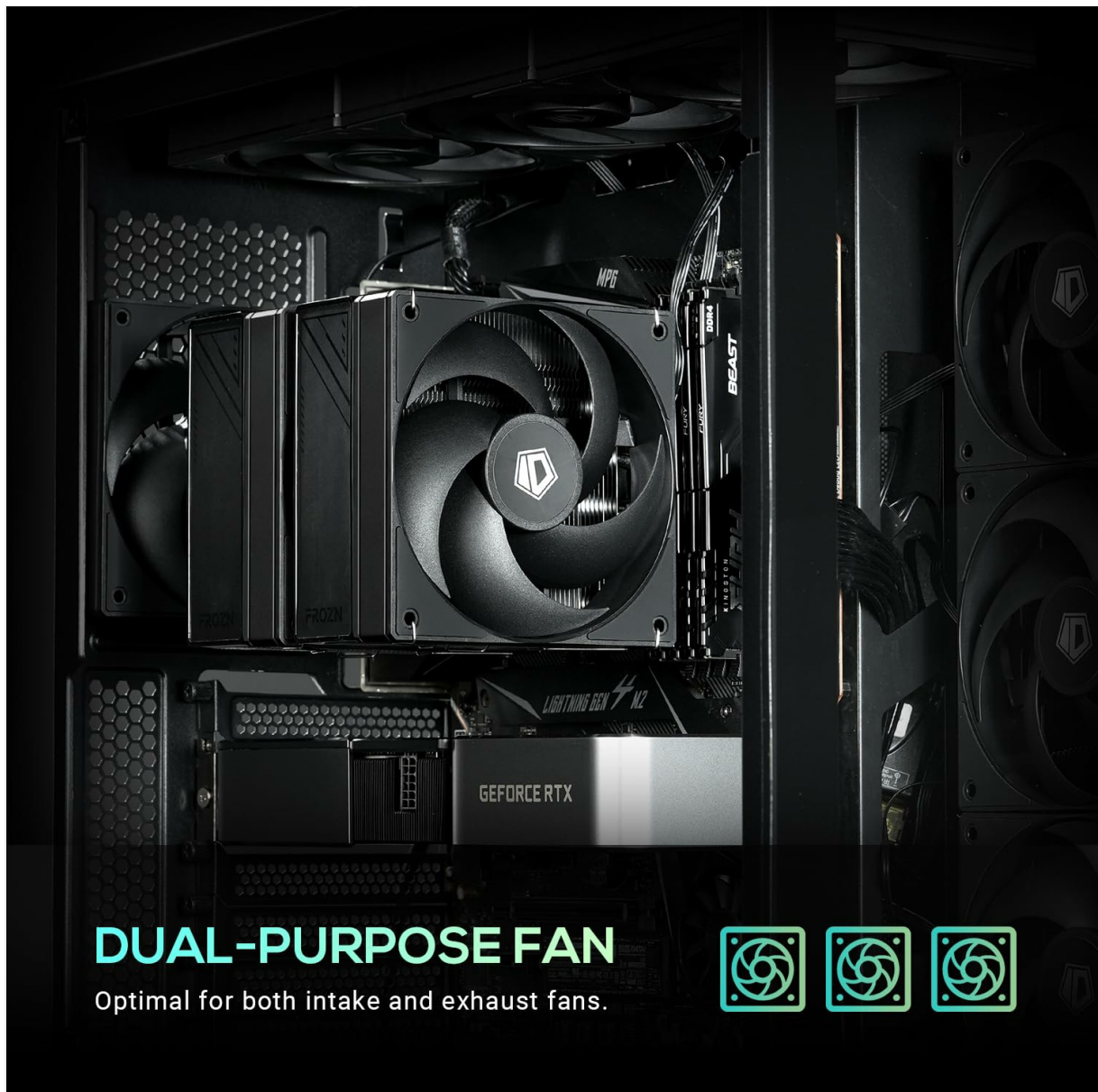


Image 4.1: Example of fans installed in a PC case. The fans can be configured for intake or exhaust.

4.3 Connecting the Fans (Daisy Chain)

The AS-120-K Trio fans feature a daisy-chain design for simplified cable management. This allows you to connect multiple fans to a single fan header on your motherboard.

1. Connect the 4-pin PWM cable from the first fan to an available 4-pin fan header on your motherboard (e.g., CPU_FAN, SYS_FAN).

2. Connect the daisy-chain connector from the first fan to the input connector of the second fan.
3. Repeat step 2 for any additional fans, connecting them in series.
4. Ensure all connections are secure.

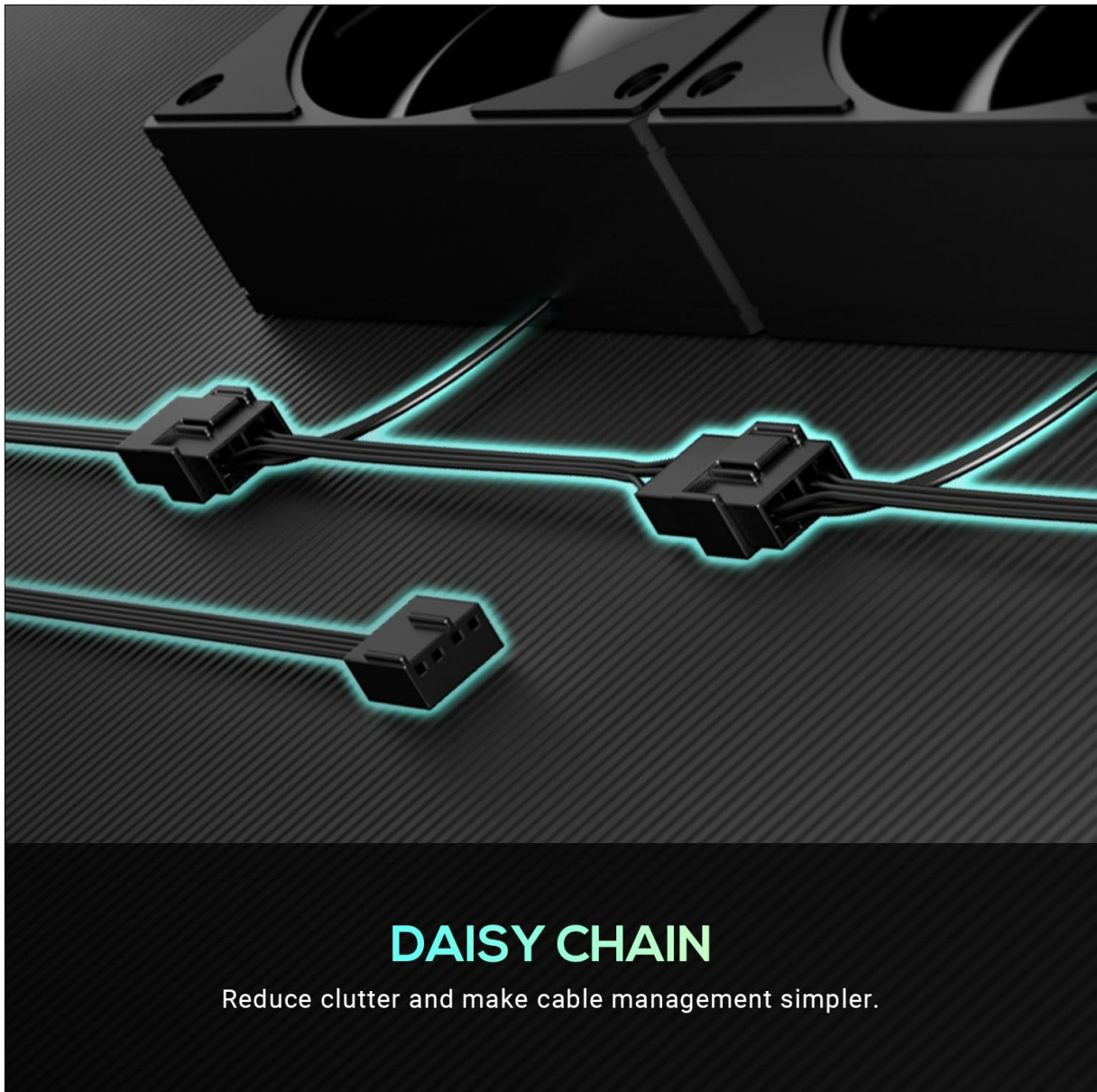


Image 4.2: Daisy chain connectors for simplified cable management.

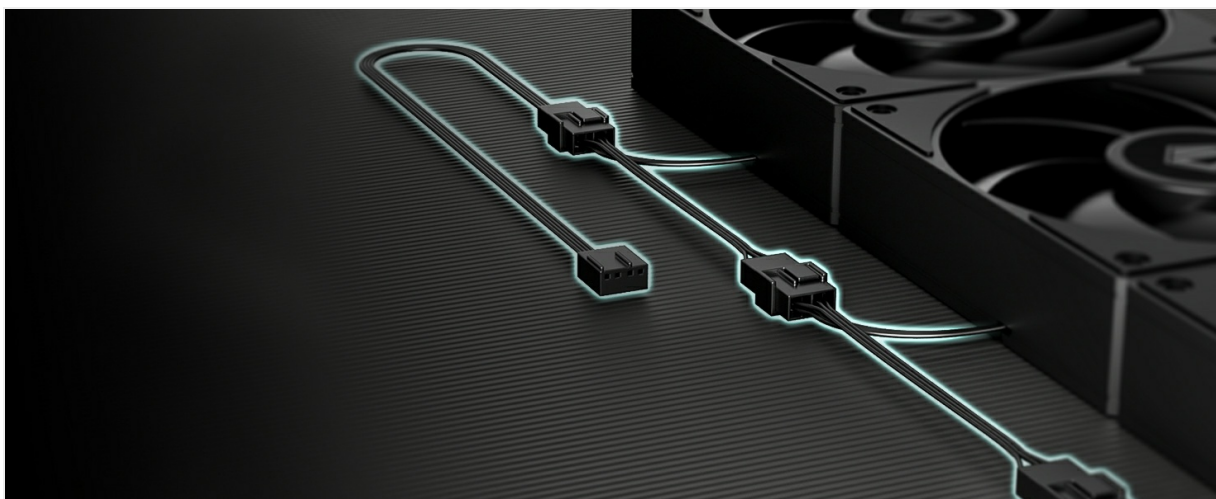


Image 4.3: Visual representation of daisy-chaining multiple fans.

5. OPERATING INSTRUCTIONS

The ID-COOLING AS-120-K Trio fans utilize Pulse Width Modulation (PWM) control, allowing your motherboard to dynamically adjust fan speeds based on system temperature. This ensures optimal cooling performance while minimizing noise.

- After installation, power on your computer. The fans should begin spinning.
- To adjust fan speed curves, access your motherboard's BIOS/UEFI settings or use compatible fan control software provided by your motherboard manufacturer.
- Configure fan profiles to balance cooling performance and noise levels according to your preferences.

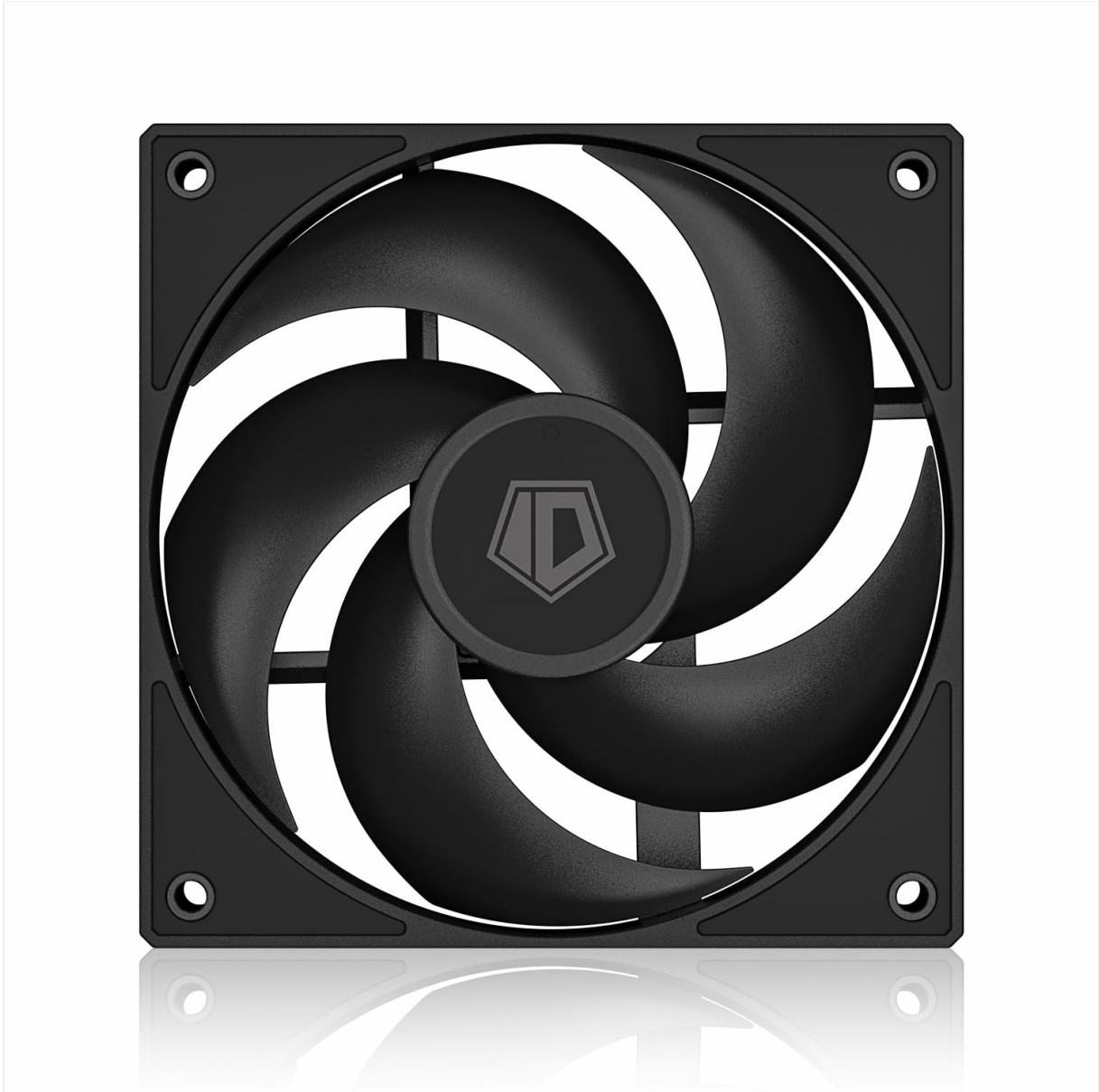


Image 5.1: The fans support Precise PWM Control for dynamic speed adjustment.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the fan blades and frame to remove dust buildup. Use compressed air or a soft brush. Ensure the computer is powered off and unplugged before cleaning.
- **Inspection:** Check fan cables for any signs of wear or damage. Ensure all connections remain secure.
- **Environment:** Operate your computer in a clean, well-ventilated environment to minimize dust accumulation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Fan not spinning	Loose cable connection, insufficient power, faulty fan header.	Check all 4-pin PWM connections. Try connecting to a different fan header. Ensure power supply is adequate.
Excessive noise	Dust buildup, fan rubbing against cables, high RPM setting, faulty bearing.	Clean fan blades. Ensure no cables are obstructing the fan. Adjust fan speed settings in BIOS/software. If noise persists, the fan may be faulty.
Poor cooling performance	Incorrect airflow direction, insufficient fan speed, dust buildup.	Verify fans are oriented correctly for intake/exhaust. Increase fan speeds. Clean fans and case filters.

8. SPECIFICATIONS

Feature	Detail
Model	AS-120-K TRIO
Fan Dimensions	120mm x 120mm x 25mm (4.72"L x 4.72"W x 4.72"H)
Fan Speed	300 - 2000 RPM (PWM Controlled)
Max. Air Flow	58 CFM
Max. Static Pressure	1.94 mmH2O
Noise Level	27.2 dB(A) Max
Bearing Type	Hydraulic Bearing
Power Connector	4-Pin PWM
Rated Voltage	12V DC
Material	Copper (Note: This likely refers to internal motor components, as the fan frame and blades are typically plastic.)
Compatible Devices	Desktop PCs (for CPU air coolers, radiators, PC cases)

9. PRODUCT VIDEO OVERVIEW

Watch this official video for a visual overview of the ID-COOLING AS-120-K Trio fans, demonstrating their features and installation.



Video 9.1: Official overview of the ID-COOLING AS-120-K Trio fans. This video demonstrates the physical appearance, daisy-chaining feature, and installation within a PC case.

10. WARRANTY AND SUPPORT

ID-COOLING products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please visit the official ID-COOLING website or contact their customer support directly. Keep your purchase receipt as proof of purchase for warranty claims.

Official ID-COOLING Store: [ID-COOLING Amazon Store](#)

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