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› [darkFlash Z4Pro Mist CPU Cooler Instruction Manual](#)

darkFlash Z4 Pro Mist

darkFlash Z4Pro Mist CPU Cooler Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the darkFlash Z4Pro Mist CPU Cooler. Designed for efficient heat dissipation, this single-tower air cooler features a 120mm ARGB PWM fan and four $\Phi 6\text{mm}$ heat pipes. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.



darkFlash Z4Pro Mist CPU Cooler with illuminated ARGB fan.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- darkFlash Z4Pro Mist CPU Cooler (Heatsink and 120mm ARGB PWM Fan)
- Intel Mounting Brackets
- AMD Mounting Brackets
- Backplate (Universal for Intel, AMD uses original motherboard backplate)
- Mounting Screws and Spacers
- Thermal Paste
- Fan Clips

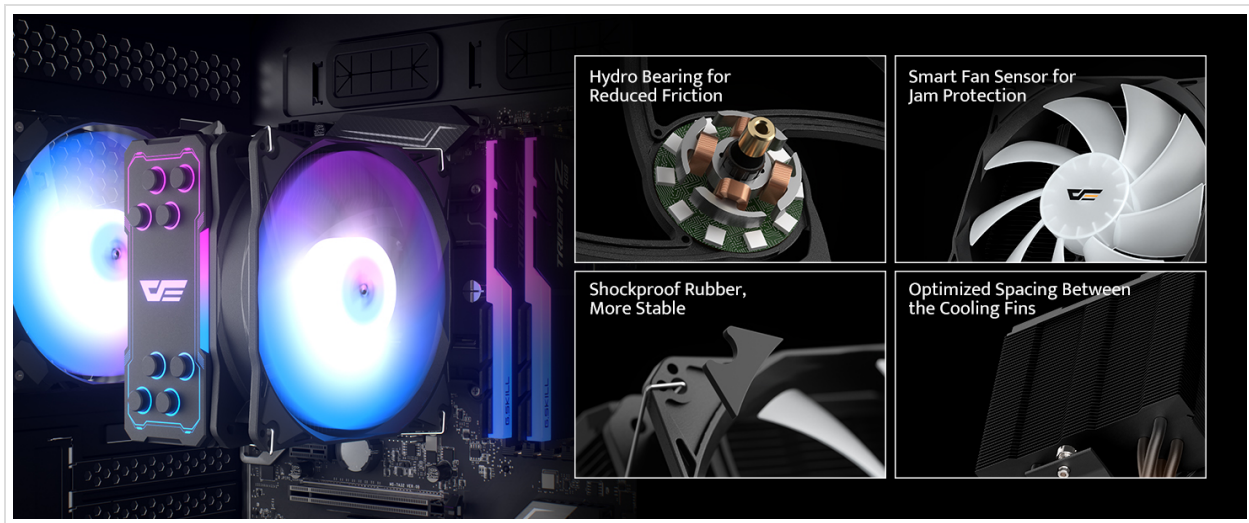


An exploded view of the darkFlash Z4Pro Mist CPU Cooler components.

3. SPECIFICATIONS

Model Number	Z4 Pro Mist
Product Dimensions	2.8"L x 4.7"W x 6.1"H (72mm x 120mm x 155mm)
Weight	1.41 Pounds
TDP (Thermal Design Power)	200W
Heat Pipes	4 x Ø6mm Copper Heat Pipes (HDT Technology)
Fin Material	Aluminum
Fan Size	120mm
Fan Speed	800-1600 ±10% RPM (PWM Controlled)
Fan Air Capacity	54.7 CFM
Fan Pressure	1.5 MMH2O
Noise Level	24.3 dBA
Power Connector	4-Pin (PWM)
Voltage	12 Volts (DC)

Cooling Method	Air
Compatible Sockets	Intel: LGA1700/115x/12xx; AMD: AM4/AM5



Dimensions of the darkFlash Z4Pro Mist CPU Cooler.

4. COMPATIBILITY

The darkFlash Z4Pro Mist CPU Cooler is compatible with a wide range of Intel and AMD CPU sockets. Please ensure your motherboard socket is listed below and that your PC case has sufficient clearance (155mm height) for the cooler.

- **Intel Sockets:** LGA1700, LGA1200, LGA1150, LGA1151, LGA1155, LGA1156
- **AMD Sockets:** AM4, AM5

COMPATIBLE WITH INTEL & AMD

Includes all necessary mounting hardware for quick and painless installation



intel



AMD

CPU Socket Compatibility

AMD : AM5/AM4

Intel : LGA 115x/12xx/17xx

Intel and AMD mounting hardware and socket compatibility.

5. SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and unplugged. Handle components with care to avoid damage.

5.1. Prepare the Motherboard

1. Remove any existing CPU cooler and clean off old thermal paste from the CPU surface using isopropyl alcohol.
2. **For Intel Sockets:** Attach the universal backplate to the rear of the motherboard, aligning the holes with the CPU socket. Secure it with the appropriate standoffs from the front side.
3. **For AMD Sockets:** Retain the original AMD motherboard backplate. Remove the plastic retention clips from the front of the motherboard.

5.2. Apply Thermal Paste

Apply a small, pea-sized amount of thermal paste to the center of the CPU's integrated heat spreader (IHS). Do not spread it manually; the pressure from the cooler will distribute it evenly.

5.3. Install Mounting Brackets

1. Attach the correct Intel or AMD mounting brackets to the base of the cooler using the provided screws.
2. Carefully place the cooler onto the CPU, aligning the screws on the mounting brackets with the standoffs (Intel) or the original backplate (AMD).
3. Tighten the screws in a diagonal pattern until snug. Do not overtighten.

5.4. Attach the Fan

1. Using the included fan clips, secure the 120mm ARGB PWM fan to the heatsink. Ensure the fan is oriented to blow air through the heatsink towards the rear or top of your PC case for optimal airflow.
2. Connect the 4-pin PWM fan cable to the CPU_FAN header on your motherboard.
3. Connect the 3-pin ARGB cable to a compatible 5V Addressable RGB header on your motherboard. Ensure it is a 5V header, not a 12V RGB header, to prevent damage.



Example of the cooler installed with ARGB lighting.

6. OPERATING INSTRUCTIONS

6.1. Fan Control (PWM)

The 120mm fan utilizes Pulse Width Modulation (PWM) technology, allowing your motherboard to automatically adjust fan speed based on CPU temperature. This ensures efficient cooling when needed and

quiet operation during lighter loads. You can typically configure fan curves in your motherboard's BIOS/UEFI settings or through manufacturer-provided software.

INTELLIGENT 120MM PWM ARGB FANS

Balance Airflow and Noise



 Fan Speed 800-1600+10% RPM	 Fan Air Capacity 54.7 CFM
 Fan Pressure 1.5 MMH2O	 Noise 24.3 dBA

Fan specifications and intelligent control.

6.2. ARGB Lighting Customization

The cooler features Addressable RGB (ARGB) lighting, which can be synchronized with your motherboard's RGB software. Connect the 3-pin ARGB cable to a compatible 5V ARGB header on your motherboard. Supported software includes:

- ASUS Aura Sync
- MSI Mystic Light Sync
- GIGABYTE RGB Fusion 2.0
- ASRock Polychrome Sync

Use your motherboard's software to customize lighting effects, colors, and synchronization with other ARGB components in your system.



Aesthetic design with laser-engraved top cap and all-black finish.

7. MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from the heatsink fins and fan blades using compressed air or a soft brush. Ensure the fan is not spinning during cleaning.
- **Fan Inspection:** Check the fan for any obstructions or unusual noises. If the fan is removable, you may detach it for more thorough cleaning.
- **Thermal Paste:** While not frequently required, if you remove the cooler for any reason, it is recommended to clean off the old thermal paste and apply new thermal paste before reinstallation.

8. TROUBLESHOOTING

If you encounter issues with your darkFlash Z4Pro Mist CPU Cooler, refer to the following common problems and solutions:

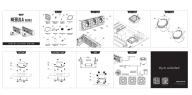





Problem	Possible Cause	Solution
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High CPU Temperatures	Improper cooler installation, insufficient thermal paste, poor airflow in case, fan not spinning.	Re-seat the cooler ensuring even pressure. Verify thermal paste application. Check fan connections and rotation. Improve case airflow.
Fan Not Spinning	Fan cable disconnected, faulty fan header, fan failure.	Ensure 4-pin PWM cable is securely connected to the CPU_FAN header. Test fan on another header if available. Contact support if fan is faulty.
ARGB Lighting Not Working	ARGB cable disconnected, incorrect ARGB header (e.g., 12V instead of 5V), software issue.	Verify 3-pin ARGB cable is connected to a 5V Addressable RGB header. Check motherboard software settings. Ensure motherboard ARGB header is enabled in BIOS.
Excessive Noise	Loose fan, dust buildup, fan bearing issue.	Check fan clips for secure attachment. Clean fan and heatsink. If noise persists, contact support.

9. WARRANTY AND SUPPORT

For warranty information and terms, please refer to the documentation included with your product or visit the official darkFlash website. For technical assistance or further inquiries, please contact darkFlash customer support through their official channels.

Related Documents - Z4 Pro Mist

	darkFlash NEBULA Series AIO CPU Cooler Installation Guide This guide provides step-by-step instructions for installing the darkFlash NEBULA Series All-In-One ARGB Liquid CPU Cooler for Intel and AMD systems.
	Darkflash DARKAIR CPU Cooler Installation Guide Detailed installation guide for the Darkflash DARKAIR CPU cooler, covering Intel LGA 115x/1366/17xx and AMD AM4/AM3/AM2 sockets. Includes part list and step-by-step instructions for installation.
	darkFlash Radiant Series All-in-One Liquid CPU Cooler Installation Guide Comprehensive installation guide for the darkFlash Radiant Series All-in-One Liquid CPU Cooler, covering models DC-120, DC-240, and DC-360 for Intel and AMD platforms.
	darkFlash Storm Z4 CPU Cooler Installation and Specifications Guide Comprehensive guide for the darkFlash Storm Z4 CPU cooler, detailing precautions, technical specifications, and step-by-step installation instructions for Intel and AMD platforms. Includes component lists and connection diagrams.
	DarkFlash Twister Series DX240 V2.6 All-in-One ARGB Liquid CPU Cooler Installation Guide This guide provides step-by-step instructions for installing the DarkFlash Twister Series DX240 V2.6 All-in-One ARGB Liquid CPU Cooler on Intel and AMD platforms.
	darkFlash GAUSS SERIES Magnetic Splicing Cooling Fan - Specifications and Guide Detailed information on the darkFlash GAUSS SERIES Magnetic Splicing Cooling Fan, including specifications, accessory contents, and connection instructions. Features 120mm size, hydraulic bearing, and ARGB lighting.

