

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [PCCOOLER](#) /

› [PCCOOLER GI-D56A CPU Cooler Instruction Manual](#)

PCCOOLER GI-D56A

PCCOOLER GI-D56A CPU Cooler Instruction Manual

Model: GI-D56A | Brand: PCCOOLER

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PCCOOLER GI-D56A CPU Cooler. The GI-D56A is a high-performance air cooler designed for efficient heat dissipation, featuring a 120mm PWM RGB fan, addressable RGB lighting, and a universal mounting system compatible with various Intel and AMD CPU sockets. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

2. PRODUCT FEATURES

- **Addressable RGB PWM Silent Fan:** Features a 120mm 5V 3-Pin addressable RGB and 12V 4-Pin PWM fan. The fan utilizes a SilentPro blade design with a Corona LED frame to enhance air convection and heat dissipation. It supports automatic speed control from 1000 to 2000 RPM ($\pm 10\%$) and includes shockproof rubber pads for reduced noise.
- **Definable RGB LED Acrylic Top Guard:** An acrylic top guard with definable RGB LEDs syncs with the FRGB fan lights or motherboard, offering various lighting effects including rainbow and solid color modes. An included RGB controller provides 6 different solid colors and 10 lighting modes.
- **Black Plating Anti-oxidation Protective Layer:** The GI-D56A HALO FRGB CPU cooler features a black plating anti-oxidation protective layer, ensuring optimal light transmission and preventing glare. The acrylic material offers excellent weatherability, high surface hardness, and good high-temperature performance.
- **5 Heat Pipes Direct Touch and Super Heat Dissipation (160W TDP):** Equipped with 5 pieces of 6mm nickel-plated copper powder heat pipes (3 U-type + 2 L-type) for rapid thermal conduction. The 45x38mm aluminum heat base with HDT (Heat pipes Direct Touch) ensures direct contact with the CPU for efficient and quick heat transfer, supporting up to 160W TDP.
- **Universal Metal EasySET Pro Bracket:** Compatible with a wide range of Intel sockets (LGA2066 / 2011 / 1150 / 1151 / 1155 / 1156 / 775 / 1366) and AMD sockets (AM4 / FM2+ / FM2 / FM1 / AM3+ / AM3 / AM2+ / AM2). This metal bracket ensures stable installation and protects the motherboard from bending or deformation.

3. PACKAGE CONTENTS

Please verify that all components are present in the package:

- CPU Cooler (Radiator with pre-installed fan)
- Mounting Brackets for Intel and AMD sockets
- Backplate
- Screws and Spacers
- Thermal Paste
- RGB Controller (if not using motherboard sync)
- User Manual (this document)

4. SETUP AND INSTALLATION

Before beginning installation, ensure your computer is powered off and unplugged. It is recommended to consult your motherboard manual for specific CPU cooler installation guidelines. Always refer to the detailed instructions provided with the cooler for your specific CPU socket type.

4.1 General Installation Steps

1. **Prepare Motherboard:** Identify the correct mounting hardware for your CPU socket (Intel LGA or AMD AM/FM series). Attach the appropriate backplate to the rear of your motherboard.
2. **Apply Thermal Paste:** Clean the surface of your CPU and apply a thin, even layer of thermal paste to the CPU's integrated heat spreader (IHS).
3. **Mount Cooler:** Carefully place the CPU cooler onto the CPU, aligning the mounting holes with the standoffs on the motherboard. Secure the cooler using the provided screws, tightening them in a cross pattern to ensure even pressure.
4. **Connect Fan and RGB Cables:** Connect the 4-pin PWM fan cable to the CPU_FAN header on your motherboard. Connect the 3-pin ARGB cable to a compatible 5V ARGB header on your motherboard, or to the included RGB controller.
5. **Cable Management:** Route cables neatly to avoid interference with other components or airflow.

METAL BACK PLATE BUCKLE

The installation is simple, firm and reliable, so that the heat pipe at the bottom of the heat sink is in close contact with the surface of the CPU, and the motherboard is effectively protected from being bent and deformed.

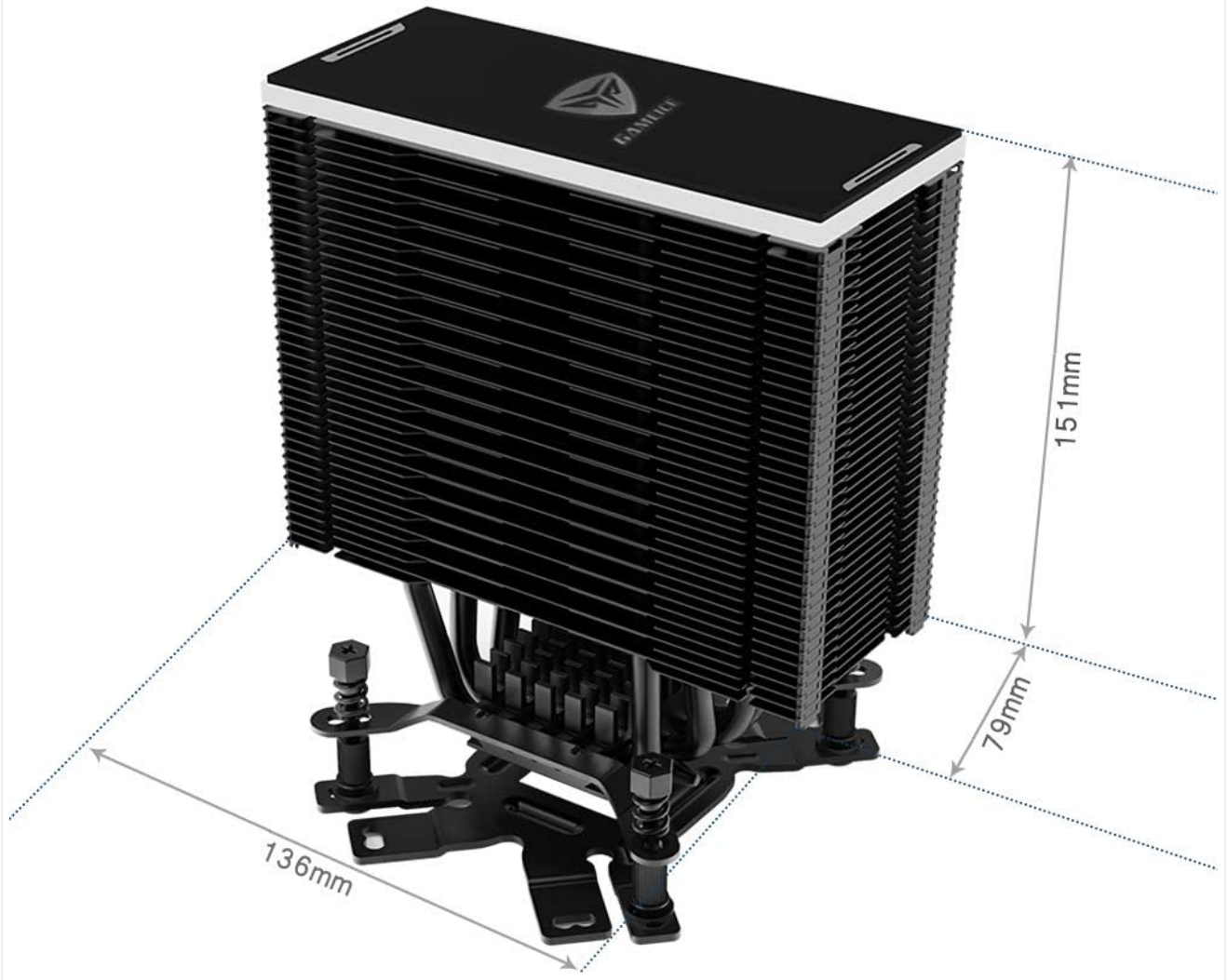


Image: The metal back plate buckle system ensures stable installation and protects the motherboard from bending.

CPU COMPATIBILITY

Intel LGA2066/2011/1150/1151/1155/1156/775/1366
AMD AM4/FM2+/FM2/FM1/AM3+/AM3/AM2+/AM2



Image: This cooler is compatible with a wide range of Intel (LGA2066/2011/1150/1151/1155/1156/775/1366) and AMD (AM4/FM2+/FM2/FM1/AM3+/AM3/AM2+/AM2) CPU sockets.

5. OPERATING INSTRUCTIONS

5.1 Fan Speed Control (PWM)

The 120mm fan supports Pulse Width Modulation (PWM) for automatic speed control. Connect the 4-pin fan connector to your motherboard's CPU_FAN header. Your motherboard's BIOS/UEFI settings or dedicated software can be used to configure fan curves, allowing the fan speed to adjust based on CPU temperature, optimizing for either performance or silence.

5.2 ARGB Lighting Control

The GI-D56A features addressable RGB (ARGB) lighting on both the fan and the top cover. There are two primary methods for controlling the lighting:

- **Motherboard Synchronization:** If your motherboard has a compatible 5V 3-Pin ARGB header, connect the cooler's ARGB cable to it. You can then control the lighting effects using your motherboard's RGB software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync).

- **Included RGB Controller:** If your motherboard lacks a 5V 3-Pin ARGB header, use the provided wired RGB LED controller. This controller allows you to switch between 6 different solid colors and 10 lighting modes, offering various aesthetic options.

ADDRESSABLE RGB PWM SILENT FAN

Intelligent speed control: 1000~2000±10% RPM

Wolf Claw Fan Blade
Wolf claw bionic design helps wind diversion

Copper Movement + Closed Loop
Smoother run and longer service life



Addressable RGB LED Lamp Beads
Using original high quality lamp beads,
the color reproduction is sharp and true

Silicone Pad
Double-sided four-corner silicone pad
effectively reduces resonance

Image: The 120mm PWM fan features addressable RGB lighting, a wolf claw bionic design for improved airflow, copper movement for durability, and silicone pads for quiet operation.

MOTHERBOARD SYNC FRGB LIGHT EFFECT

For those that do not have an RGB motherboard ,no worries, the RGB controller offers pre-set lighting options:



Image: The cooler's RGB lighting can synchronize with compatible motherboards or be controlled via the included wired RGB LED controller, offering multiple lighting modes and colors.

E-SPORTS ADDRESSABLE RGB LIGHTS PHANTOM ARMOR

Plexiglass top cover protects heat pipes from damage, Sync with the FRGB fan lights like rainbow, full of personality.

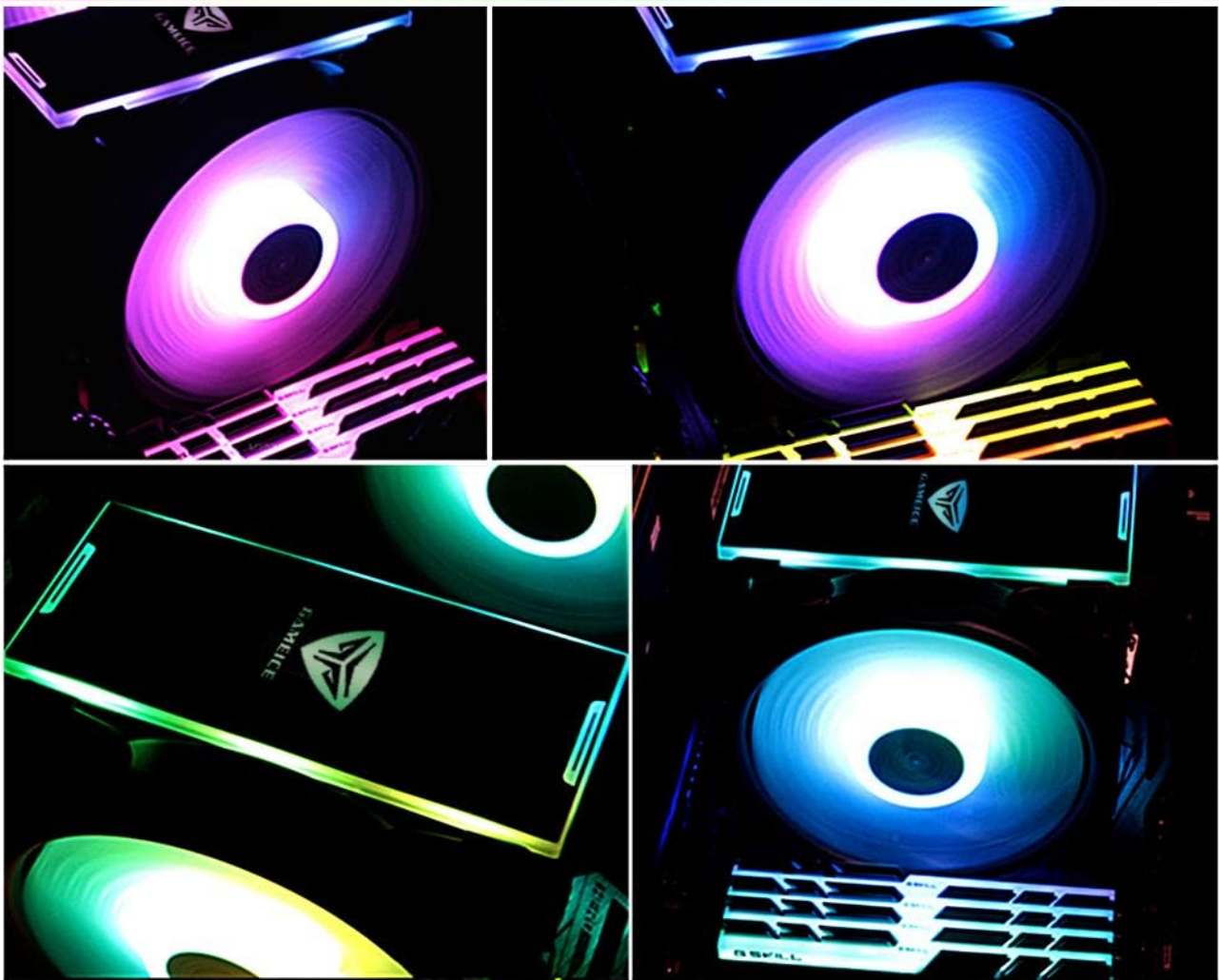


Image: The plexiglass top cover features addressable RGB lighting, protecting the heat pipes while adding a dynamic visual element to your PC build.

6. MAINTENANCE

Regular maintenance helps ensure optimal cooling performance and extends the lifespan of your CPU cooler.

- **Dust Removal:** Periodically clean the fan blades and heatsink fins to remove accumulated dust. Use compressed air or a soft brush. Ensure the fan is not spinning rapidly during cleaning to prevent damage to the bearings.
- **Thermal Paste:** While not required frequently, if you remove the cooler for any reason, it is recommended to clean off old thermal paste from both the CPU and the cooler's base and apply fresh thermal paste before reinstallation.
- **Cable Check:** Ensure all cables (fan, RGB) are securely connected and not obstructing airflow.

7. TROUBLESHOOTING

If you encounter issues with your PCCOOLER GI-D56A CPU Cooler, refer to the following common troubleshooting

steps:

- **High CPU Temperatures:**

- Verify the cooler is securely mounted and making proper contact with the CPU.
- Ensure thermal paste was applied correctly and is not dried out.
- Check if the fan is spinning. If not, ensure the fan cable is properly connected to the CPU_FAN header.
- Clean any dust buildup from the heatsink fins and fan blades.
- Confirm adequate airflow within your PC case.

- **Fan Not Spinning or Making Unusual Noise:**

- Check the 4-pin PWM fan connection to the motherboard.
- Inspect the fan blades for any obstructions.
- If the fan is making excessive noise, ensure it is securely mounted and not vibrating against other components.

- **RGB Lighting Not Working or Incorrect:**

- Verify the 3-pin ARGB cable is correctly connected to either the motherboard's 5V ARGB header or the included RGB controller.
- If using motherboard sync, ensure your motherboard's RGB software is installed and configured correctly.
- If using the RGB controller, ensure it is powered and functioning.
- Note: This cooler uses 5V ARGB. Do not connect it to a 12V RGB header, as this can cause damage.

If problems persist, please contact PCCOOLER customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Model Number	GI-D56A
Brand	PCCOOLER
Product Dimensions (LxWxH)	6.4" x 4.5" x 8" (162.56mm x 114.3mm x 203.2mm)
Item Weight	1.85 pounds (0.84 kg)
Cooling Method	Air
Heat Pipes	5 x 6mm Nickel Plating Copper (3 U-type + 2 L-type)
TDP (Thermal Design Power)	Up to 160W
Fan Size	120mm
Fan Speed	1000~2000 ±10% RPM (PWM Controlled)
Air Flow Capacity	72 Cubic Feet Per Minute (CFM)
Noise Level	29 Decibels (Max)
Power Connector Type	4-Pin (Fan), 3-Pin 5V ARGB (Lighting)

Voltage	12 Volts (Fan), 5 Volts (ARGB)
Wattage	6.2 watts
Material	Aluminum (Heatsink), Copper (Heat Pipes)
Compatible Devices	Desktop PCs
CPU Socket Compatibility	Intel: LGA2066 / 2011 / 1150 / 1151 / 1155 / 1156 / 775 / 1366 AMD: AM4 / FM2+ / FM2 / FM1 / AM3+ / AM3 / AM2+ / AM2
UPC	749390800875

TDP
160_w



Aviation Aluminum Heatsink Black Nickel Plating

Top anti-oxidation and anti-corrosion technology

Heat Sink Structure Design

Keeping the fins at equal spacing and allows heat to be quickly and evenly dispersed onto the fins.

High Performance 5 Heat Pipe

T3 U-shaped heat pipes + 2 L-shaped heat pipes are in direct contact with the CPU to maximize thermal conductivity

Excellent heat dissipation aluminum base

Large-area auxiliary heat-dissipating aluminum block has better heat storage capacity when dealing with high-efficiency CPU heat

Image: Detailed view of the heat sink structure, featuring aviation aluminum fins with black nickel plating and 5 high-performance copper heat pipes for efficient thermal transfer.

9. PRODUCT OVERVIEW VIDEO

Video: Official product video showcasing the PCCOOLER GI-D56A CPU Cooler's features, including its design, heat pipe

technology, and RGB lighting effects.

10. WARRANTY AND SUPPORT

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

PCCOOLER Official Website: www.pccooler.com

© 2023 PCCOOLER. All rights reserved.