

PCCOOLER PC-3M120

PCCOOLER 120mm Case Fan 3-Pack Instruction Manual

Model: PC-3M120

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1. INTRODUCTION

Thank you for choosing the PCCOOLER 120mm Case Fan 3-Pack. These fans are designed to provide efficient cooling and vibrant lighting for your computer case. This manual will guide you through the installation, operation, and maintenance to ensure optimal performance and longevity of your fans.

Key Features:

- **Intelligent Speed Control:** Three 120mm PWM fans with speeds ranging from 1000 to 1800 RPM, controlled by an intelligent temperature module for quiet operation.
- **Dual Light Loop Design:** Addressable RGB LEDs offer 6 light speeds, 10 lighting modes, and 6 different colors for dynamic visual effects.
- **Shockproof Design:** Equipped with 8 silicone shockproof pads to minimize vibration during operation.
- **Hydraulic Bearing Technology:** Ensures a longer service life of 30,000 hours, reduced noise, and improved heat dissipation.
- **Wide Compatibility:** Features 5V 3-pin RGB lights connector and 4-pin PWM power connector, suitable for various motherboards and water cooling systems (120/240/360mm radiators).

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the fans. Failure to do so may result in damage to the product or other components.

- Always disconnect power from your computer before installation or maintenance.
- Refer to the quick install guide provided with the product.
- For RGB cable synchronization, connect the standard 3-pin-4-position ARGB connector to your motherboard's 3-

pin-4-position ARGB port.

- If using a Gigabyte VDG adaptor cable, ensure correct connection to the VDG 3-pin ARGB port.
- **Critical Warning:** Do not connect a 5V 3-pin ARGB connector to a 12V 4-pin motherboard header. This will cause damage.
- When syncing with an ARGB mini controller, connect the standard 3-pin-4-position ARGB female connector to the controller's ARGB port, then connect the controller's Molex female power connector to the PSU's Molex port.
- Ensure all connections are secure to prevent electrical shorts or disconnections.

3. SETUP & INSTALLATION

Follow these steps to properly install your PCCOOLER 120mm case fans.

3.1 Unpacking the Contents

Carefully remove all components from the packaging. The package typically includes:

- 3 x 120mm PCCOOLER Fans
- RGB Controller (if included in your specific kit)
- Mounting Screws
- Cables for power and RGB connection

SUITABLE FOR WATER COOLING

Support 120/240/360mm radiators



Image: The retail box for the PCCOOLER 3-pack, showing three fans and the included controller and cables. This illustrates the typical contents of the package.

3.2 Fan Placement and Mounting

Determine the optimal placement for your fans within your PC case for effective airflow. Fans can be used for intake (bringing cool air in) or exhaust (expelling hot air out).



Image: A diagram showing a 120mm fan with red arrows indicating air intake and blue arrows indicating air exhaust, demonstrating airflow direction.

Secure each fan to the desired mounting points using the provided screws. The fans feature 8 silicone shockproof pads to reduce vibration and noise.

- 8 shock absorbing rubber pads with soft material
Keep the fan running smoothly, stabilize the noise output of the fan and computer case.
- Four-point arc damping design, fan sound waves, greatly reducing noise.



**Thickness:
2.5mm**

Image: A close-up view of a fan corner, highlighting the 2.5mm thick shock-absorbing rubber pad designed to stabilize noise output.

3.3 Wiring Connections

Each fan has two cables: a 4-pin PWM connector for power and speed control, and a 5V 3-pin ARGB connector for lighting.

5V 3PIN RGB CONNECTOR 4PIN PWM FAN

The intelligent temperature controls the speed at 1000~1800±10% RPM, so the fan speed can be controlled and keep the fans quiet.



Image: Three PCCOOLER 120mm fans displayed, illustrating their 5V 3-pin RGB and 4-pin PWM connectors for power and lighting control.

1. **Connect PWM Cables:** Connect the 4-pin PWM cables from each fan to the fan headers on your motherboard or to the included fan controller. The intelligent temperature control module will manage fan speeds between 1000-1800 RPM.
2. **Connect ARGB Cables:** Connect the 5V 3-pin ARGB cables from each fan to the ARGB headers on your motherboard or to the included RGB controller.
3. **Controller Connection (if applicable):** If using the included controller, connect the fans to the controller and then connect the controller to your power supply (via Molex) and motherboard (for ARGB sync, if desired).

These fans are also suitable for water cooling setups and support 120/240/360mm radiators.

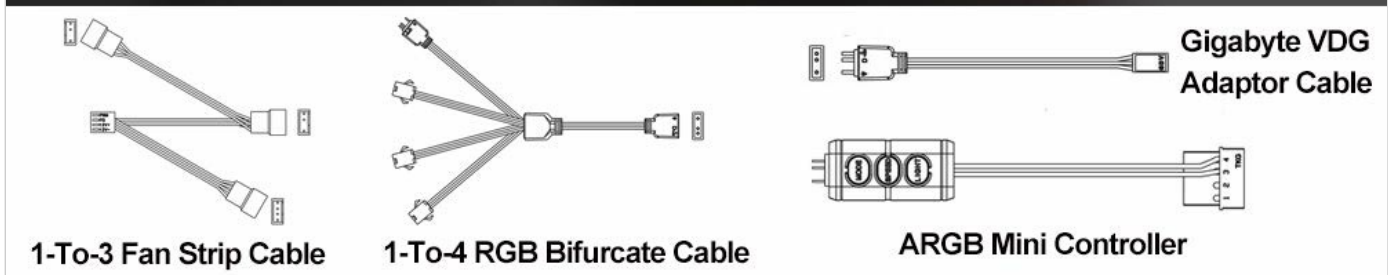


Image: PCCOOLER fans mounted on a water cooling radiator, demonstrating their compatibility with liquid cooling systems.

4. OPERATION

Once installed and connected, you can control the fan speed and lighting effects.

4.1 Fan Speed Control (PWM)

The fans utilize PWM (Pulse Width Modulation) technology, allowing your motherboard to dynamically adjust fan speed based on system temperature. This ensures efficient cooling when needed and quiet operation during lighter loads. You can configure fan curves in your motherboard's BIOS/UEFI settings or through compatible software.

4.2 RGB Lighting Control

The dual light loop design offers extensive customization for lighting effects.



- 18 LED lamp beads can be controlled, multi-color mixing rotation.
- Six colors simultaneously illuminate and follow the circular circle to keep chasing rotation.

Image: A close-up of a PCCOOLER fan, highlighting the 18 LED lamp beads that create multi-color mixing rotation and six simultaneously illuminating colors.

- **Motherboard Synchronization:** If connected to a compatible 5V 3-pin ARGB header on your motherboard, you can control the lighting using your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion).
- **Controller Operation:** If your motherboard does not support ARGB or you prefer standalone control, use the included wired RGB LED controller. This controller offers 10 lighting modes, 6 different colors, and multiple RGB light speeds.



WIRED RGB LED CONTROLLER

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

- 10 lighting modes
- 6 different colors
- Multiple RGB light speeds



Image: A wired RGB LED controller with buttons for mode, speed, and light, shown alongside logos for ASUS Aura Sync, GIGABYTE RGB Fusion, and MSI Mystic Light Sync, indicating compatibility.

To switch between motherboard control and controller control, refer to the specific instructions for your controller or motherboard software. Some controllers may require holding a "Lock" button to save settings or relinquish control to the motherboard.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your fans.

- **Cleaning:** Periodically clean the fan blades and housing to remove dust buildup. Use compressed air or a soft, dry cloth. Ensure the computer is powered off and unplugged before cleaning.
- **Inspection:** Check cables for any signs of wear or damage. Ensure all connections remain secure.
- **Bearing Longevity:** The hydraulic bearings are designed for a long lifespan (30,000 hours) and typically do not require lubrication.

6. TROUBLESHOOTING

If you encounter issues with your PCCOOLER fans, refer to the following common solutions:

Problem	Possible Cause	Solution
Fans not spinning	Loose or incorrect power connection (4-pin PWM).	Ensure all 4-pin PWM cables are securely connected to the motherboard or controller. Check PSU connections.
RGB lights not working or flickering	Incorrect ARGB connection (5V 3-pin) or incompatible voltage. Controller issue.	Verify 5V 3-pin ARGB cables are correctly connected to a 5V header (not 12V). If using a controller, ensure it's powered and functioning. Try re-seating connections.
Fans are too loud	High RPM settings, fan curve configuration, or vibration.	Adjust fan speed settings in BIOS/UEFI or motherboard software. Ensure fans are securely mounted and silicone pads are in place to reduce vibration.
RGB colors are inconsistent or not syncing	Software conflict, incorrect controller mode, or faulty connection.	Ensure only one RGB control software is active. If using a controller, verify it's in motherboard sync mode (if desired) or use its remote to set colors. Check ARGB cable integrity.

7. SPECIFICATIONS

Feature	Detail
Model	PC-3M120
Fan Dimensions	120mm x 120mm x 25mm (4.7"L x 4.7"W x 0.98"H)
Fan Speed	1000~1800 ±10% RPM
Air Flow Capacity	54.51 CFM (Cubic Feet Per Minute)
Noise Level	29 dB(A)
Bearing Type	Hydraulic Bearing
Lifespan	30,000 Hours
Power Connector	4-Pin PWM
RGB Connector	5V 3-Pin ARGB
Rated Voltage	12 Volts (Fan), 5 Volts (RGB)
Rated Wattage	2.4 Watts
Material	PBT Engineering Plastic
Compatible Devices	Desktop PCs, CPU Coolers, Water Cooling Radiators (120/240/360mm)

8. WARRANTY & SUPPORT

PCCOOLER provides a manufacturer warranty for 90 days from the date of purchase. For warranty claims or technical support, please contact PCCOOLER customer service through their official website or the retailer where the product was

purchased.

For additional resources and product information, visit the official PCCOOLER store: [PCCOOLER Store on Amazon](#).

