Thermaltake CL-F149-PL12SW-A

Thermaltake CT120 ARGB Sync PC Cooling Fan User Manual

INTRODUCTION

The Thermaltake CT120 ARGB Sync PC Cooling Fan is a new generation PWM fan designed for optimal PC cooling and customizable lighting. This manual provides instructions for installation, operation, maintenance, and troubleshooting to ensure proper use and longevity of your fans.

PACKAGE CONTENTS

- 2 x Thermaltake CT120 ARGB Sync PC Cooling Fans
- Mounting Screws
- PWM Cables (for fan power)
- ARGB Cables (for lighting control)
- Cable Management Clips

SETUP & INSTALLATION

Follow these steps to properly install your Thermaltake CT120 ARGB Sync PC Cooling Fans:

1. **Prepare Your PC Case:** Ensure your PC case has available 120mm fan mounting points. For optimal access to motherboard headers, it may be necessary to temporarily remove components such as the graphics card.

2. **Mount the Fans:** Position the fans in your desired location (e.g., front intake, rear exhaust, top exhaust). Use the provided mounting screws to secure each fan firmly to the case. The fans feature integrated anti-vibration mounting pads to reduce noise.

3. **Connect PWM Cables:** Each fan has a PWM cable for power and speed control. Connect the PWM cable from the first fan to an available 4-pin fan header on your motherboard. Utilize the daisy-chain design by connecting the PWM cable from the second fan to the first fan's daisy-chain connector. This minimizes cable clutter and port usage.

4. **Connect ARGB Cables:** Each fan also has an ARGB cable for lighting control. Connect the ARGB cable from the first fan to an available 5V addressable RGB header on your motherboard. Daisy-chain the ARGB cable from the second fan to the first fan's ARGB daisy-chain connector. Ensure correct polarity (+5V, Data, Ground) to prevent damage.

5. **Cable Management:** Use the included cable management clips to neatly route and secure all cables, improving airflow and aesthetics within your PC case.

Image: Thermaltake CT120 ARGB Sync PC Cooling Fan showcasing its customizable lighting.

Image: Rear view of the CT120 fan, highlighting the power and ARGB connectors for installation.

FINE TUNED 7-BLADE DESIGN

We've finely tuned our CT series fan blades to exceed expectations. Keep it simple and game on without sacrificing performance.

Image: Illustration of the daisy-chain cabling system for simplified fan connections.

ANTI-VIBRATION MOUNTING PADS

Integrated rubber pads stabilize the fan and dampen vibrations to achieve higher RPM at lower noise levels.

Image: Detail of the integrated anti-vibration mounting pads designed to reduce operational noise.

OPERATING INSTRUCTIONS

The Thermaltake CT120 ARGB Sync PC Cooling Fans offer both speed and lighting control:

- **Fan Speed Control (PWM):** The fans utilize Pulse Width Modulation (PWM) technology, allowing your motherboard to dynamically adjust fan speeds (500-2000 RPM) based on system temperature. This ensures efficient cooling when needed and quieter operation during lighter loads.
- **ARGB Lighting Control:** The 9 addressable LEDs on each fan can be controlled via compatible 5V motherboard sync software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync). This software allows you to customize lighting effects, colors (16.8 million options), and synchronization with other ARGB components in your system.
- **Initial Boot:** Upon initial system boot, the fans will power on. If connected correctly, the motherboard software should detect and synchronize the ARGB lighting. Allow a moment for the software to recognize and apply your preferred lighting profiles.

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Image: Multiple CT120 ARGB fans installed in a PC case, demonstrating synchronized lighting effects.

MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your cooling fans:

- **Dust Cleaning:** Periodically inspect the fan blades and frame for dust accumulation. Use compressed air or a soft brush to gently remove dust. Ensure the PC is powered off and unplugged before cleaning.
- **Connection Check:** Occasionally verify that all PWM and ARGB cables are securely connected to the motherboard headers and to each other, especially after moving or servicing your PC.

TROUBLESHOOTING

If you encounter issues with your Thermaltake CT120 fans, consider the following:

- **Fans Not Spinning:**
    - Check if the 4-pin PWM power cables are securely connected to the motherboard fan headers.

- Ensure the motherboard fan headers are enabled in the BIOS/UEFI settings.
- Verify that your power supply is providing adequate power to the motherboard and fans.

- **ARGB Lighting Not Working/Synchronizing:**

  - Confirm that the 5V ARGB cables are correctly connected to the motherboard's 5V addressable RGB headers (not 12V RGB headers).
  - Check the motherboard's ARGB sync software to ensure the fans are detected and the desired lighting effects are applied.
  - Ensure the ARGB cables are properly daisy-chained between fans.
  - Restart your PC to allow the software to re-detect the fans.

- **Excessive Noise:**

  - Verify that the fans are securely mounted and the anti-vibration pads are correctly positioned.
  - Check for any cables or obstructions touching the fan blades.
  - Clean any dust accumulation on the fan blades.
  - Adjust fan speed settings in your motherboard's BIOS/UEFI or software to a lower RPM if noise is a concern and temperatures allow.

SPECIFICATIONS

Feature	Specification
Model Number	CL-F149-PL12SW-A
Fan Dimensions	120 x 120 x 25 mm (4.72"L x 0.98"W x 4.72"H)
Fan Speed	PWM 500 ~ 2000 R.P.M
Max. Air Pressure	2.23 mm-H2O
Max Air Flow	57.05 CFM
Noise Level	25.8 dB-A
Bearing Type	Hydraulic Bearing
Life Expectation	40,000 hrs, 25°C
Rated Voltage (Fan)	12 V
Rated Voltage (LED)	5 V
Power Input (one fan)	1.32 W (Fan) & 1.55 W (LED)
Connector	4-Pin PWM (Fan), 3-Pin ARGB (LED)
LEDs	9 Addressable LEDs, 16.8 Million Colors
Features	Cable-Integrated Daisy-Chain Design, Anti-vibration Mounting System

WARRANTY & SUPPORT

Thermaltake products are manufactured to high quality standards. For specific warranty information, terms, and conditions, please refer to the warranty card included with your product or visit the official Thermaltake website. For technical support, product registration, or further assistance, please visit the Thermaltake support page or contact their customer service directly.

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