Thermalright GV240 ARGB BLACK

Thermalright Grand Vision 240 ARGB Black CPU Water Cooler

Instruction Manual

1. Product Overview

The Thermalright Grand Vision 240 ARGB Black CPU Water Cooler is an all-in-one liquid cooling solution designed for high-performance computing. It features a 240mm radiator, dual PWM fans, and an IPS LCD screen for real-time system monitoring and customization. This cooler is engineered to provide efficient heat dissipation for various CPU platforms.

Key Features:

- **High Cooling Combination:** Features a water block with a detachable magnetic LCD screen, a 240mm nano-painted aluminum fin radiator, polymer protective water pipes, and 120mm PWM high-performance fans for effective cooling.
- **3.4 Inch IPS LCD Screen:** A square IPS LCD screen with 480x480 resolution provides accurate color reproduction, supports DIY static and dynamic picture switching, and system projection display.
- **Stable Bearing Fans:** Equipped with STABLY-FDB V2 bearings to minimize fan blade shaking and improve cooling performance, ensuring a long service life.
- **Optimized Details:** Pre-installed fans and a water guide clip simplify installation. Features 7-pin parallel connectivity supporting two fans for power and lighting in series for convenient cable management.
- **Wide Compatibility:** Supports AMD AM4/AM5 and Intel LGA1150/1151/1155/1156/1200/2011/2066/1700/1851 platforms.

The Thermalright Grand Vision 240 ARGB Black CPU Water Cooler showcasing its radiator, RGB fans, and integrated LCD display.

2. Package Contents

Verify that all components are present before beginning installation:

- CPU Water Cooler Unit (Radiator, Pump, Water Block with LCD)
- 120mm PWM High-Performance Fans (2x)
- Intel Bracket (2x)
- AMD Bracket (2x)
- Thermal Compound (1x tube)
- LGA115X/1200 Spacer (4x)
- LGA1851/1700 Spacer (4x)
- LGA2066 Screw (4x)
- Intel Nuts (4x)
- Radiator Screw (8x for 240mm radiator)
- AM4/AM5 Screw (4x)
- AM4/AM5 Spacer (4x)
- Intel 115X/1700/1851 Backplate (1x)
- LCD Data and Power Cable (1x)
- PWM and Lighting Sync Cable (pre-connected)
- USB Cable (for LCD data)
- SATA Power Connector (for LCD power)

Image illustrating the supported motherboard sockets for Intel (LGA115X/1200/2066/1700/1851) and AMD (AM4/AM5).

3. Installation Guide

Please refer to the official installation video for a visual guide. Ensure your system is powered off and unplugged before installation.

Your browser does not support the video tag.

Official Thermalright Grand Vision 240 ARGB installation video, demonstrating the step-by-step process for mounting the cooler on various CPU sockets.

3.1. Intel LGA1700/1851 Installation

1. Adjust the backplate screw positions to match your LGA1700/1851 motherboard.
2. Install the backplate from the backside of the motherboard, ensuring the screws pass through the appropriate holes.
3. From the front side of the motherboard, install the blue 1851/1700 spacers onto the backplate screws.
4. Place the Intel metal brackets onto the spacers, aligning them with the LGA1700/1851 holes on the backplate screws.
5. Secure the metal brackets by screwing in the four Intel nuts.

3.2. AMD AM5/AM4 Installation

1. Remove the existing motherboard brackets around the CPU socket. Keep the original backplate in place.
2. Install the four red AM4/AM5 spacers onto the motherboard's mounting holes.
3. Place the two AMD metal brackets onto the spacers.
4. Secure the metal brackets by screwing them into the spacers using a screwdriver.

3.3. Common Installation Procedures

1. Apply a small amount of thermal compound onto the CPU's Integrated Heat Spreader (IHS).
2. Carefully remove the protective sticker from the water block's coldplate.
3. Position the water block onto the CPU, ensuring the water block bracket nuts align with the screws on the installed mounting brackets.
4. Tighten both nuts on the water block evenly to apply mounting pressure. Do not overtighten.

4. Wiring Connections

Proper wiring is essential for the cooler's functionality and lighting. The PWM and lighting sync cable is pre-connected to the fans.

1. Connect the fan PWM cable to the motherboard's CPU_FAN header.
2. Connect the pump power cable to the motherboard's CPU_OPT or AIO_PUMP header.
3. Connect the 3-pin ARGB connectors to the motherboard's +5V ARGB header for synchronized lighting.
4. For the LCD display, connect the Type-C data cable to the water block's LCD port.
5. Connect the other end of the USB cable (from the LCD data cable) to an available USB 2.0 header on your motherboard.
6. Connect the LCD power connector to a SATA power cable from your power supply.

5. Software and LCD Customization

The Thermalright Grand Vision 240 ARGB features an IPS LCD screen that can be customized using dedicated software. This software allows you to:

- Monitor CPU and GPU temperatures, clock frequencies, and other system parameters.
- Display custom static images, GIFs, or videos.
- Choose from various pre-loaded themes and animations.

Please download the latest version of the TRCC software from the official Thermalright website for full functionality and customization options.

The 3.4-inch IPS LCD screen provides real-time monitoring of system metrics like CPU and GPU temperatures, along with customizable visuals.

6. Technical Specifications

Feature	Specification
Brand	Thermalright
Model Number	GV240 ARGB BLACK
Cooling Method	Water Cooling
Compatible Devices	Desktop CPUs
Supported Sockets	AMD: AM4/AM5; Intel: LGA1150/1151/1155/1156/1200/2011/2066/1700/1851
Radiator Dimensions	11.14 x 4.72 x 2.17 inches (283 x 120 x 27 mm)
Fan Dimensions	120 x 120 x 28 mm
Fan Rotational Speed	2150 RPM ±10% (Max)
Fan Air Flow Capacity	80.45 CFM (Max)
Fan Noise Level	≤29.4 dBA
Fan Power Connector	4-Pin PWM
Fan Bearing Type	S-FDB Bearing V2
Water Block Dimensions	70.5 x 77.5 x 72.5 mm
Pump Connector	4-Pin PWM
Voltage	12 Volts
Material	Aluminum, Plastic
Item Weight	5.41 pounds
UPC	769047391815

7. Troubleshooting

- **No Power/Fans Not Spinning:** Ensure all power cables (SATA for LCD, PWM for fans/pump) are securely connected to the power supply and motherboard headers. Check motherboard BIOS settings for fan control.
- **High CPU Temperatures:** Verify that the water block is properly seated on the CPU with adequate thermal paste. Ensure fans are spinning and the radiator is free of dust. Check pump operation.
- **LCD Screen Not Displaying:** Confirm the Type-C data cable is connected to the water block and the USB 2.0 header on the motherboard. Ensure the SATA power cable for the LCD is connected. Reinstall or update the TRCC software.
- **RGB Lighting Issues:** Check the 3-pin ARGB connection to the motherboard's +5V ARGB header. Ensure your motherboard's RGB software is configured correctly.
- **Unusual Noises:** Check for any obstructions in the fan blades. Ensure the pump is not running dry (though this is an AIO, air bubbles can sometimes cause noise, which usually resolves itself).

8. Maintenance

- **Dust Cleaning:** Regularly clean dust from the radiator fins and fan blades using compressed air or a soft brush to maintain optimal cooling performance.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent interference with moving parts or airflow.
- **Thermal Paste:** Reapply thermal paste if you remove and reinstall the water block, or if you notice a significant increase in CPU temperatures over time.
- **Software Updates:** Keep the TRCC software and any relevant motherboard drivers updated for the best performance and compatibility.

9. Warranty & Support

For warranty information and technical support, please refer to the official Thermalright website or contact their customer service directly. Keep your proof of purchase for warranty claims.
Website: www.thermalright.com