Thermalright FW360

Thermalright FW360 CPU AIO Cooler Instruction Manual

Model: FW360

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Thermalright FW360 Black CPU AIO Cooler. Please read this manual thoroughly before installation and use to ensure proper functionality and longevity of the product.

Figure 1: Thermalright FW360 Black CPU AIO Cooler

2. PRODUCT FEATURES

- **Excellent Cooling Combination:** Integrated water block with detachable IPS LCD screen, 360mm all-

black nano-painted aluminum fin radiator, polymer protective water pipes, and standard 120mm PWM air pressure fans for high cooling efficiency, durability, low noise, and low evaporation.

- **IPS LCD Screen Water Pump:** Features a new generation pump system with an IPS LCD screen (320x240 resolution) that supports DIY static & dynamic picture switching and system screen projection display for enhanced visual interest and real-time monitoring.

- **High Performance Fans:** Equipped with STABLY-FDB (S-FDB) bearing fans to prevent blade shaking and improve cooling performance, offering an industrial service life of up to 20,000 hours.

- **Optimized Design:** Pre-installed fans and included water guide clips for easy installation. SS2 all-metal buckle compatible with various CPU models for flexible switching between air and liquid cooling.

- **Strong Compatibility:** Supports AMD AM4/AM5 and Intel LGA1150/1151/1155/1156/1200/2011/2066/1700 platforms with corresponding mounting fasteners.

3. PACKAGE CONTENTS

Ensure all items are present before proceeding with installation:

- Thermalright FW360 Black AIO Cooler Unit (Radiator, Fans, Pump/Water Block with LCD)
- Mounting Hardware for AMD (AM4/AM5)
- Mounting Hardware for Intel (LGA1150/1151/1155/1156/1200/2011/2066/1700)
- USB Cable (Type C to Motherboard 9-pin USB Header)
- Thermal Compound
- User Manual

4. SPECIFICATIONS

Component	Specification
Product Dimensions	4.72"L x 2.05"W x 15.63"H (Radiator)
Water Block Dimensions	69.2mm x 69.2mm x 60mm
Radiator Dimensions	397mm x 120mm x 27mm
Fan Dimensions	120mm x 120mm x 25mm
Pump Speed	3000RPM ±10%
Pump Noise Level	≤23dBA
Fan Rated Speed	2000RPM ±10%
Fan Noise Level	≤29.8dBA
Air Flow Capacity	70.84 CFM (MAX)
Static Pressure	2.63mm/H_2O (MAX)
Power Connector Type	4-Pin (PWM)
Voltage	12 Volts
Wattage	3 watts

Component	Specification
Material	Aluminum, Polymer
Compatible Devices	Desktop CPUs (AMD AM4/AM5, Intel LGA115x/1200/2066/1700)

5. SETUP AND INSTALLATION

Follow these steps carefully for proper installation of your Thermalright FW360 AIO Cooler. Refer to your motherboard and CPU manuals for specific socket installation details.

5.1. Prepare the CPU and Motherboard

1. Install the appropriate backplate and standoffs for your CPU socket (Intel or AMD) onto the motherboard.
2. Apply a small amount of thermal compound to the center of the CPU's Integrated Heat Spreader (IHS).

Figure 2: Motherboard compatibility and internal water channel design

5.2. Install the Water Block and Radiator

3. Mount the radiator with the pre-installed fans to an available fan mounting location in your PC case (e.g., top, front, or rear). Ensure proper airflow direction.
4. Carefully place the water block onto the CPU, aligning it with the standoffs. Secure it using the provided mounting screws, tightening them in a diagonal pattern until snug.

5.3. Connect Cables

5. Connect the fan cables to the CPU_FAN or AIO_PUMP headers on your motherboard. Consult your motherboard manual for recommended headers.
6. Connect the pump power cable to the appropriate header on your motherboard.
7. Connect the USB cable (Type-C end) to the water block's LCD Type-C header.
8. Connect the other end of the USB cable (9-pin USB header) to an available USB 2.0 header on your

motherboard. This connection is crucial for LCD screen power and data communication.

5.4. Software Installation

9. Download the TRCC water-cooling LED screen control software from the official Thermalright website (thermalright.com/support/download/).

10. Unzip the downloaded file and run the setup executable to install the TRCC software.

11. Once installed, double-click the TRCC shortcut to launch the software.

6. OPERATING THE LCD SCREEN AND SOFTWARE

The Thermalright FW360 features an IPS LCD screen on the water block, customizable via the TRCC software.

Figure 3: Full Color IPS 2.4 Display on Water Block

6.1. Theme Customization

The TRCC software allows extensive customization of the LCD display:

- **Default Themes:** Select from various pre-loaded themes in the 'Local Theme' section. The LCD screen updates in real-time.

- **Online Themes:** Access additional themes from the 'Online Theme' gallery.

- **Background Customization:**

    - Load static images (JPG, JPEG, BMP, PNG) as backgrounds. Images can be edited (zoom, position) within the preview window.
    - Load GIF or video files (GIF, MP4, AVI, MOV, MKV) as animated backgrounds. Videos can be trimmed and positioned.

Figure 4: TRCC Software Interface for Live System Monitoring

6.2. Display Elements

Customize individual display elements:

- **Custom Text:** Enable custom text display, type your desired text, change its color, and select different fonts. Drag the text in the preview to adjust its position.

- **Date/Time:** Enable date and time display. Switch between 24H/12H format and various date formats. Toggle time and weekday display on/off.

- **System Information (M1-M6):** Enable system info display. Switch between cycle or list format. Adjust the cycle interval time. Customize which system parameters (CPU temp, GPU temp, clock speeds, etc.) are displayed for each M module.

- **Temperature Unit:** Switch between Celsius (℃) and Fahrenheit (℉) for temperature readings.

6.3. Advanced Functions

- **Screen Streaming:** Turn on the streaming function to display content from your computer screen directly onto the LCD. Adjust the streaming content area and size.

- **Media Player:** Use the media player function to play selected videos from start to end on the LCD. Adjust video display position.

7. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fans using compressed air. Ensure the fans are not spinning during cleaning to prevent damage.

- **Cable Management:** Ensure all cables are securely connected and properly routed to avoid interference with fan blades or other components.

- **Software Updates:** Check the Thermalright official website regularly for TRCC software and firmware

updates to ensure compatibility and access to new features.

- **Visual Inspection:** Occasionally inspect the water pipes for any signs of leaks or damage.

8. TROUBLESHOOTING

If you encounter issues with your Thermalright FW360 AIO Cooler, refer to the following common solutions:

- **No Display on LCD Screen:**

  - Ensure the USB cable (Type-C to motherboard 9-pin) is securely connected at both ends.
  - Verify that the TRCC software is installed and running.
  - Check for any driver conflicts or USB port issues in your operating system.

- **High CPU Temperatures:**

  - Confirm the water block is properly seated on the CPU with adequate thermal compound application.
  - Ensure radiator fans are spinning and oriented correctly for airflow.
  - Check if the pump is operating (you might hear a faint hum or feel vibrations in the tubes).
  - Clean any dust accumulation on the radiator fins.

- **Unusual Noise:**

  - Check for loose fan screws or cables interfering with fan blades.
  - Ensure the pump is not running dry (though unlikely in a closed-loop system, extreme angles can sometimes cause issues).
  - If the noise persists and is abnormal, contact customer support.

- **Software Not Detecting Cooler:**

  - Reinstall the TRCC software.
  - Try a different motherboard USB 2.0 header.
  - Ensure your operating system is up to date.

9. WARRANTY INFORMATION

Thermalright products are manufactured to the highest quality standards. This product is covered by a limited warranty against defects in materials and workmanship. The specific warranty period may vary by region and retailer. Please retain your proof of purchase for warranty claims.
The warranty does not cover damage resulting from:

- Improper installation or use not in accordance with this manual.

- Unauthorized modifications or repairs.

- Accidents, abuse, or neglect.

- Normal wear and tear.

For detailed warranty terms and conditions, please visit the official Thermalright website or contact your local retailer.

10. SUPPORT

If you require further assistance or have questions not covered in this manual, please contact Thermalright customer service through the following channels:

- **Official Website:** Visit www.thermalright.com for support resources, FAQs, and contact forms.
- **Email Support:** Refer to the contact section on the official website for the appropriate email address.
- **Retailer Support:** For purchase-related issues, contact the store's customer service where you bought the product.

Note: No official product video URLs were provided in the product data, therefore video embedding is not possible in this manual.