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› Thermalright FW360 Ultra ARGB Black CPU AIO Cooler User Manual

## Thermalright FW360 ULTRA ARGB BLACK

# Thermalright FW360 Ultra ARGB Black CPU AIO Cooler User Manual

Model: FW360 ULTRA ARGB BLACK

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Thermalright FW360 Ultra ARGB Black CPU All-in-One (AIO) Liquid Cooler. Please read this manual thoroughly before installation to ensure proper setup and optimal performance. This AIO cooler is designed to provide efficient cooling for your CPU, featuring a 360mm radiator, ARGB fans, and an IPS LCD screen for system monitoring and customization.

## 2. PACKAGE CONTENTS

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Verify that all components are present in the package before proceeding with installation. If any items are missing or damaged, please contact Thermalright customer support.

- Thermalright FW360 Ultra ARGB Black AIO Liquid Cooler (Radiator, Pump/Waterblock with IPS LCD, and pre-installed Fans)
- Mounting Hardware Kit for Intel Sockets
- Mounting Hardware Kit for AMD Sockets
- Thermal Paste
- Fan and ARGB Cables
- USB Cable for LCD Display
- User Manual (this document)

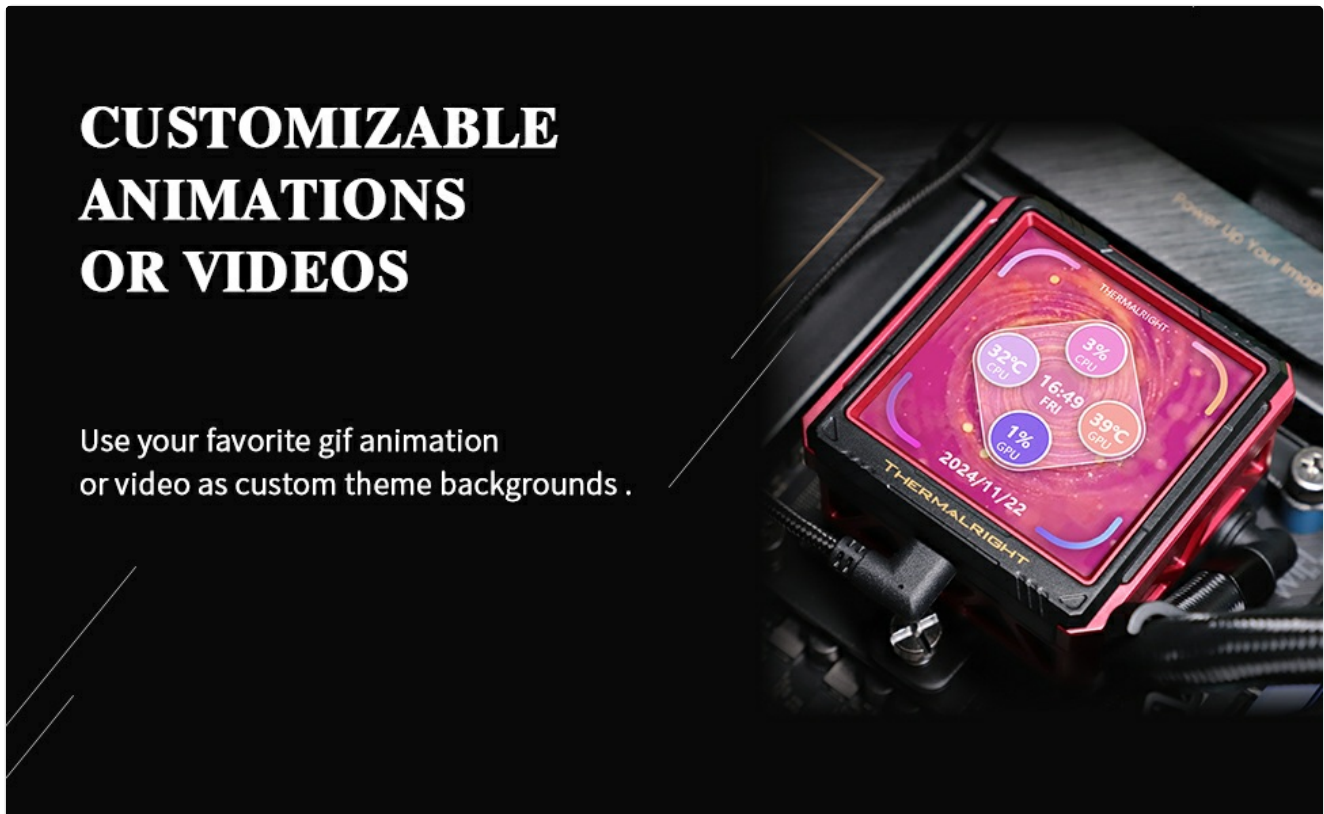
## 3. COMPATIBILITY

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The Thermalright FW360 Ultra ARGB Black AIO Cooler supports a wide range of CPU sockets. Ensure your motherboard's socket type is listed below:

- **Intel Sockets:** LGA1150, LGA1151, LGA1155, LGA1156, LGA1200, LGA2011, LGA2066, LGA1700, LGA1851
- **AMD Sockets:** AM4, AM5

**Note:** For AMD platform installations, the original motherboard backplate is required. Please retain it if you are upgrading from a stock cooler.



## CUSTOMIZABLE ANIMATIONS OR VIDEOS

Use your favorite gif animation or video as custom theme backgrounds .

This image illustrates the supported motherboard sockets for both Intel and AMD platforms, highlighting the cooler's broad compatibility. It also shows the internal design of the radiator's water channels for improved flow and the durable polymer-sleeved water tubes designed for low liquid evaporation.

## 4. INSTALLATION GUIDE

Follow these steps carefully to install your Thermalright FW360 Ultra ARGB Black AIO Cooler. It is recommended to consult the official installation video or a detailed visual guide for specific steps.

### 4.1 Prepare Your System

1. Power off your computer and disconnect it from the power source.
2. Open your computer case and remove any existing CPU cooler. Clean the CPU surface thoroughly to remove old thermal paste.

### 4.2 Install the Radiator and Fans

1. Identify the optimal mounting location for the 360mm radiator in your PC case (typically top or front).
2. Secure the radiator to the case using the provided screws. The fans are pre-installed on the radiator.

### 4.3 Install the Waterblock/Pump

1. Select the appropriate mounting brackets for your CPU socket (Intel or AMD) from the hardware kit.
2. Attach the chosen brackets to the waterblock/pump unit.
3. Apply a small amount of thermal paste to the center of your CPU's integrated heat spreader (IHS).

4. Carefully place the waterblock onto the CPU, aligning the mounting holes.
5. Secure the waterblock to the motherboard using the provided screws, tightening them in a cross pattern until snug. Avoid over-tightening.

## 4.4 Connect Cables

1. Connect the fan PWM cables to your motherboard's CPU\_FAN or AIO\_PUMP headers, or to a fan controller.
2. Connect the ARGB cables from the fans and pump to your motherboard's 5V 3-pin ARGB header or a compatible ARGB controller. **Note:** This cooler supports 5V 3-pin ARGB only and does not support 12V 4-pin RGB.
3. Connect the USB cable from the waterblock to an available internal USB 2.0 header on your motherboard. This is essential for the LCD display functionality and software control.
4. Ensure all cables are routed neatly to avoid interference with other components or airflow.



An example of the Thermalright FW360 Ultra ARGB Black AIO Cooler installed within a computer system, illustrating the radiator, fans, and the waterblock with its functional IPS LCD display.

## 5. OPERATION AND SOFTWARE

The Thermalright FW360 Ultra features an integrated IPS LCD screen on the waterblock, offering real-time system monitoring and extensive customization options.

### 5.1 LCD Display Features

The 2.88-inch IPS LCD screen provides a 480x480 resolution display capable of:

- **System Monitoring:** Displaying CPU temperature, GPU temperature, clock frequencies, and other vital system statistics.
- **Customizable Themes:** Supporting various static and dynamic picture switching.
- **GIF and Video Playback:** Allowing users to upload and display custom GIF animations or video files.

The display adopts a magnetic-absorbed modular design, allowing it to be freely rotated for optimal viewing angles.



This image highlights the key functionalities of the waterblock's IPS LCD display, including system monitoring, GIF playback, and video playback capabilities.

## 5.2 Software Control

To fully utilize the LCD display's features and customize its content, you will need to install the dedicated Thermalright control software. This software allows you to:

- Configure display settings and themes.
- Upload custom images, GIFs, and videos.
- Monitor system parameters in detail.
- Adjust fan speeds and pump performance (if supported by the software).

Please visit the official Thermalright website to download the latest version of the control software. Ensure your system meets the software's requirements for optimal functionality.



## FW 360 ULTRA ARGB BLACK SPECIFICATION

COOLER	SPECIFICATION	TL-P12-S	SPECIFICATION
Water Block Dimensions	69mm * 69mm * 60mm	Fan Dimensions	120mm * 120mm * 25mm
Radiator Dimensions	397mm * 120mm * 27mm	Fan Rated Speed	2000RPM±10%
Pump Connector	4PIN PWM	Fan Rated Noise	≤29.8dBA
		Fan Air Flow	70.84CFM(MAX)
		Fan Static Pressure	2.63mm/H <sup>2</sup> O(MAX)
		Fan Connector	4PIN PWM
		Fan Rated Voltage	DC 12V
		Fan Rated Current	0.13A(MAX)
		Fan Bearing Type	S-FDB Bearing

A visual representation of the TRCC software interface, demonstrating its capabilities for live system monitoring and customization of ARGB lighting and display themes.

## 6. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean the radiator fins and fan blades with compressed air to remove dust buildup. Dust can impede airflow and reduce cooling efficiency.
- **Cable Management:** Ensure all cables are securely connected and not obstructing airflow or fan operation.
- **Visual Inspection:** Occasionally inspect the tubing for any signs of kinks, leaks, or damage. While the polymer-sleeved tubes are designed for durability and low evaporation, a visual check is always recommended.
- **Thermal Paste:** Re-applying thermal paste is generally not required unless the cooler is removed from the CPU. If you reinstall the cooler, clean off old thermal paste and apply new paste.

## 7. TROUBLESHOOTING

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

- **No Power/Fans Not Spinning/No LCD Display:**
  - Check all power connections to the motherboard (CPU\_FAN/AIO\_PUMP header) and any fan/ARGB controllers.
  - Ensure the USB cable for the LCD display is securely connected to both the waterblock and the motherboard's internal USB 2.0 header.
  - Verify that the power supply is functioning correctly.
- **High CPU Temperatures:**

- Confirm the waterblock is properly seated on the CPU and tightened evenly.
- Check if thermal paste was applied correctly and adequately.
- Ensure fans are spinning and oriented correctly for optimal airflow (pushing air through the radiator).
- Clean any dust buildup on the radiator fins.
- Verify pump operation. You may hear a faint hum or feel vibrations from the pump.

- **LCD Display Not Functioning or Showing Incorrect Data:**

- Ensure the USB cable is connected properly.
- Install or update the Thermalright control software.
- Check software settings to ensure the display is enabled and configured correctly.
- Restart the software or your computer.

- **ARGB Lighting Issues:**

- Verify ARGB cables are connected to a 5V 3-pin header (not 12V 4-pin).
- Check motherboard ARGB software or dedicated controller settings.
- Ensure all ARGB components are daisy-chained correctly if applicable.

- **Unusual Noise (Humming/Gurgling):**

- A slight humming from the pump is normal. Excessive noise might indicate air bubbles in the loop. Try gently tilting your PC case to help dislodge air bubbles.
- Ensure fans are not hitting any cables or obstructions.

If these steps do not resolve your issue, please contact Thermalright customer support for further assistance.

## 8. SPECIFICATIONS

Detailed technical specifications for the Thermalright FW360 Ultra ARGB Black AIO Cooler:

Component	Specification
Model Number	FW360 ULTRA ARGB BLACK
Water Block Dimensions	69mm x 69mm x 60mm
Radiator Dimensions	397mm x 120mm x 27mm
Pump Voltage	DC 12V
Pump Connector Type	4-Pin PWM
Fan Model	TL-P12-S
Fan Dimensions	120mm x 120mm x 25mm
Fan Rated Speed	2000 RPM $\pm$ 10%
Fan Rated Noise	$\leq$ 29.8 dBA
Fan Air Flow Capacity	70.84 CFM (MAX)
Fan Static Pressure	2.63 mmH <sub>2</sub> O (MAX)

Component	Specification
Fan Connector Type	4-Pin PWM
Fan Rated Voltage	DC 12V
Fan Rated Current	0.13A (MAX)
Fan Bearing Type	S-FDB Bearing
Cooling Method	Water Cooling
Compatible Devices	Desktop
UPC	769047390283

## 9. WARRANTY AND SUPPORT

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Thermalright products are manufactured to high quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Thermalright website. If you require technical assistance or have questions regarding your product, please contact Thermalright customer support through their official channels.

- **Manufacturer:** Thermalright
- **Date First Available:** October 15, 2024

## 10. SAFETY INFORMATION

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Please observe the following safety precautions to prevent damage to the product or injury to yourself:

- Always disconnect power from your computer before installing or performing maintenance on any components.
- Handle components with care to avoid damage.
- Do not open the liquid cooler's sealed loop. Tampering with the unit may void the warranty and cause leaks.
- Keep the product away from children.
- Ensure proper ventilation in your PC case to maintain optimal operating temperatures.