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› FW360 SE ARGB V2 CPU AIO Liquid Cooler User Manual

ITleads FROZEN WARFRAME 360 SE ARGB BLACK V2

User Manual: FW360 SE ARGB V2 CPU AIO Liquid Cooler

Model: FROZEN WARFRAME 360 SE ARGB BLACK V2 | Brand: ITleads

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ITleads FROZEN WARFRAME 360 SE ARGB V2 CPU AIO Liquid Cooler. This advanced cooling system is designed for high-performance desktop PCs, featuring a 360mm radiator, daisy-chainable ARGB fans, and a rotatable 2-inch LCD display for real-time system monitoring and customization. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.

2. WHAT'S IN THE BOX

Verify that all components are present before beginning installation.

- FROZEN WARFRAME 360 SE ARGB BLACK V2 AIO Liquid Cooler Unit (Radiator, Pump with LCD, Tubing, Pre-installed Fans)
- Mounting Hardware Kit for Intel LGA115X/1200/1700/1851 sockets
- Mounting Hardware Kit for AMD AM4/AM5 sockets
- Standard TF7 Silicone Thermal Paste (pre-applied)
- Modular Control Line/Cables



Image: The FROZEN WARFRAME 360 SE ARGB BLACK V2 AIO cooler unit and its retail packaging, indicating the main components included.

3. KEY FEATURES

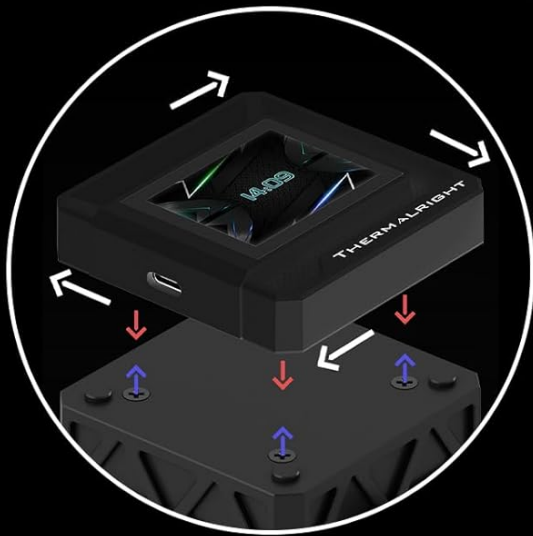
- **2-inch Rotatable LCD Display:** Features a sharp 320x320 pixel resolution. Allows users to view real-time statistics (CPU temperature, usage rate), upload custom pictures, and animated GIFs. The display is magnetically attached and freely rotatable.
- **Daisy-Chain Connection Fans (TL-M12Q):** 2000 RPM fans with a streamlined daisy-chain design to reduce wiring clutter and simplify installation.
- **Optimized Pump Design (CORE V1.0):** Features a strong nine-pole rotor motor and a new fluid impeller, rotating up to 3000 RPM while maintaining a quiet 28.2dB(A) noise level. Designed for efficient heat transfer and a maximum cooling capacity of 250W TDP.
- **Liquid Leakage Prevention Technology:** Incorporates a patented pressure relief device within the radiator to vent internal air pressure caused by high temperatures, preventing leaks.
- **Broad Compatibility:** Supports Intel LGA115X/1200/1700/1851 and AMD AM4/AM5 sockets.

WITH HIGH-QUALITY SCREEN PERFORMANCE

 2-inch Display

 320*240 Resolution

 450 Brightness



**Detachable Magnetic-Attach
Modular Design**

Freely Rotatable LCD Display

Image: High-quality screen performance with 2-inch display, 320x240 resolution, and detachable magnetic-attach modular design for free rotation.

FROZEN WARFRAME 360 SE V2 ARGB BLACK



IPS DIY DISPLAY
Magnetic installation



CORE V1.0
Independent Water Pump Frame



S22 METAL CLIP
Strong compatibility



TL-M12Q
Infinity Mirror ARGB Fan

Image: Overview of the FROZEN WARFRAME 360 SE ARGB BLACK V2, showcasing its main components and features like the IPS DIY display and TL-M12Q fans.

CORE V1.0 INDEPENDENT WATER PUMP FRAME

9-POLE ROTOR MOTOR

NEW FLUID IMPELLER

MICRO-DENSE SHOVEL
TOOTH PROCESS

Image: Detailed view of the CORE V1.0 independent water pump frame, highlighting the 9-pole rotor motor and new fluid impeller for efficient cooling.

PRE-INSTALLED COOLING FAN FOR SIMPLE AND CONVENIENT INSTALLATION

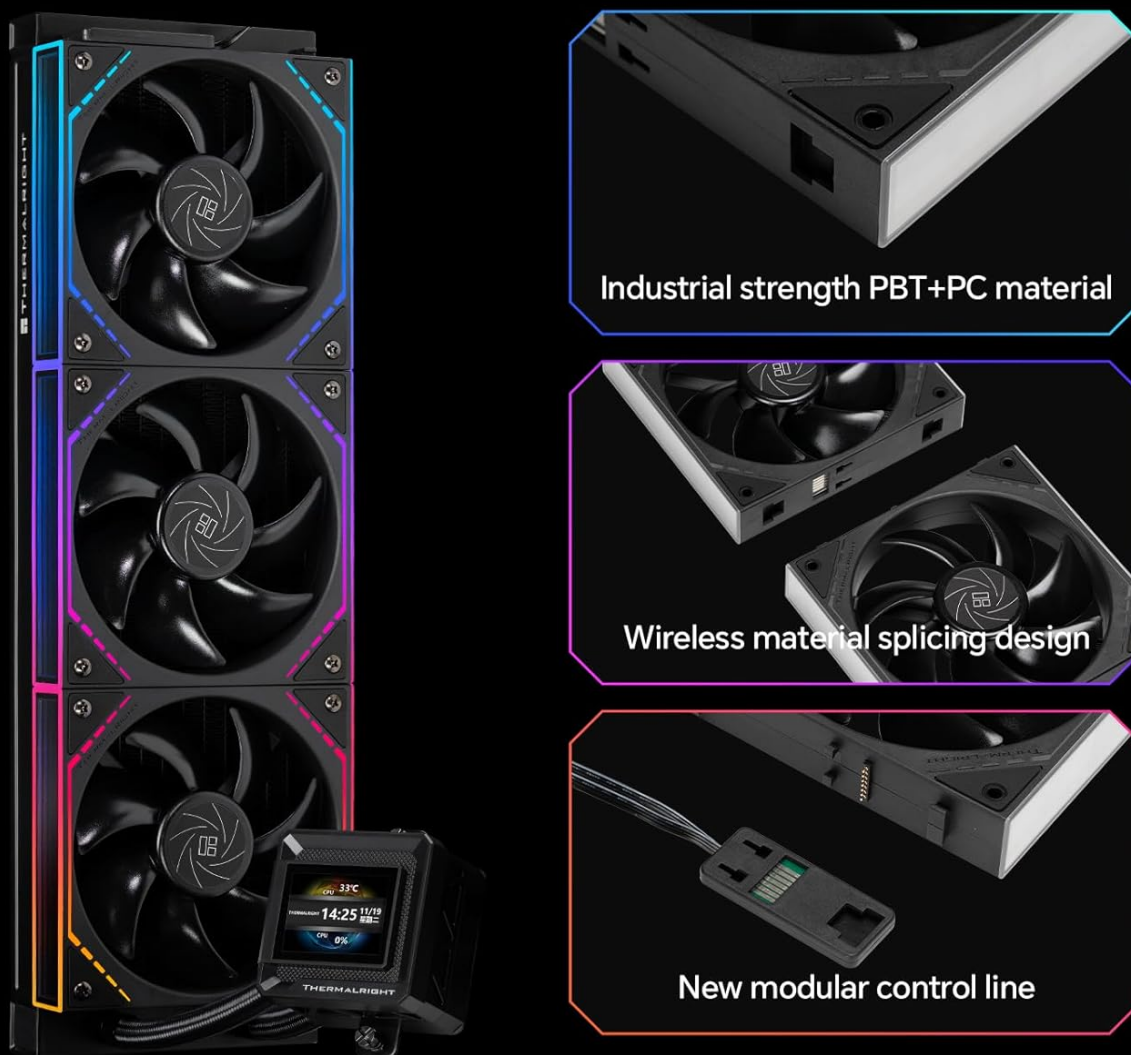


Image: The TL-M12Q performance fan, detailing its specifications including 2000 RPM speed, $\leq 28\text{dB(A)}$ noise, 68.9 CFM air volume, and 2.21 mm/H₂O fan pressure.

4. SETUP AND INSTALLATION

Before installation, ensure your system is powered off and unplugged. Refer to your motherboard and PC case manuals for specific mounting locations and clearances.

4.1 Supported Platforms

This cooler supports the following CPU sockets:

- **Intel:** LGA115X (1150, 1151, 1155, 1156), LGA1200, LGA1700, LGA1851
- **AMD:** AM4, AM5

SUPPORTED PLATFORMS

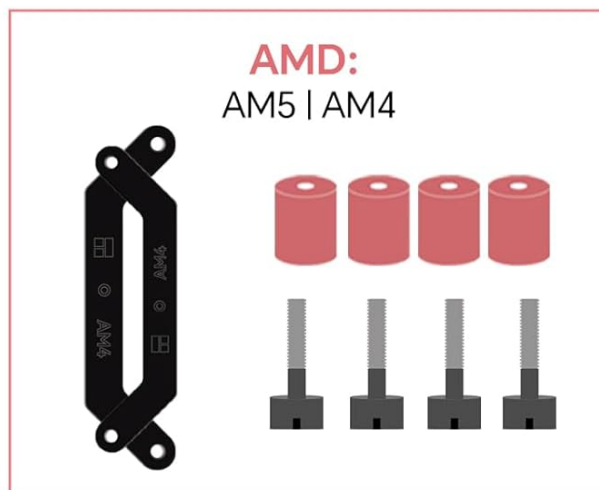
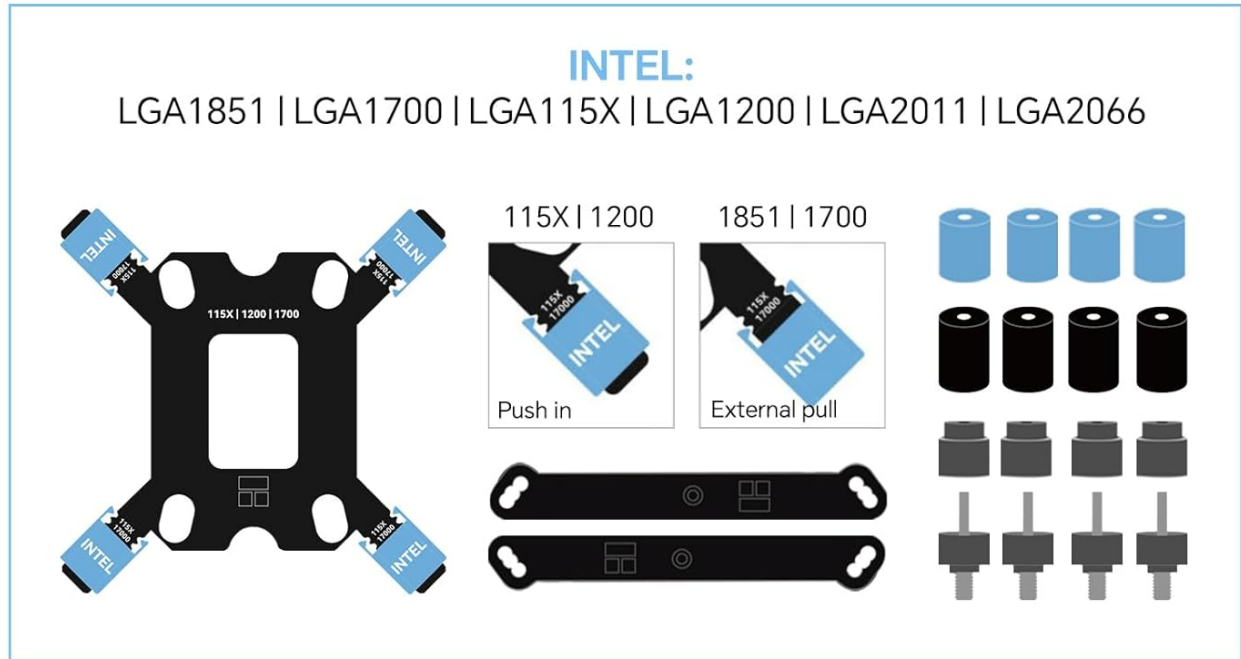


Image: Supported platforms and corresponding mounting hardware for Intel and AMD CPUs, including the standard TF7 silicone thermal grease.

4.2 General Installation Steps

1. **Prepare Motherboard:** Install the appropriate backplate (for Intel) or use the existing AMD backplate. Screw in the correct standoffs for your CPU socket.
2. **Apply Thermal Paste:** The cooler comes with pre-applied thermal paste. If reapplying, ensure the CPU surface is clean before applying a small amount of high-quality thermal paste (e.g., TF7).
3. **Mount Pump/Cold Plate:** Carefully align the pump/cold plate with the CPU and secure it using the provided thumb screws or mounting brackets. Ensure even pressure.
4. **Mount Radiator:** Install the radiator with pre-installed fans into your PC case's designated mounting points (e.g., front, top, or rear). Ensure proper airflow direction.
5. **Connect Cables:**
 - Connect the pump's power cable to a CPU_FAN or AIO_PUMP header on your motherboard.
 - Connect the daisy-chained fan cables to a fan header or the included modular control line.
 - Connect the LCD display's USB cable to an available internal USB 2.0 header on your motherboard.

- Connect any ARGB cables to a compatible ARGB header on your motherboard or a dedicated ARGB controller.

6. **Cable Management:** Route cables neatly to ensure proper airflow and aesthetics.



Image: Pre-installed cooling fans for simple and convenient installation, featuring industrial strength PBT+PC material and a new modular control line.

5. OPERATING INSTRUCTIONS

5.1 LCD Display Operation

The 2-inch LCD display provides real-time monitoring and customization options.

- **Monitoring:** The display can show CPU temperature, CPU usage rate, and other system statistics.
- **Customization:** Through the dedicated software (downloadable from the manufacturer's website), you can:
 - Switch between 6 system modes.

- Upload custom pictures and animated GIFs to personalize the display.
- Adjust display brightness and orientation.
- **Rotation:** The display head is magnetically attached and can be freely rotated to ensure the image is always upright, regardless of pump orientation.



Image: DIY theme customization options for the LCD display, allowing monitoring of CPU temperature, frequency, and usage rate, and selection of various visual themes.

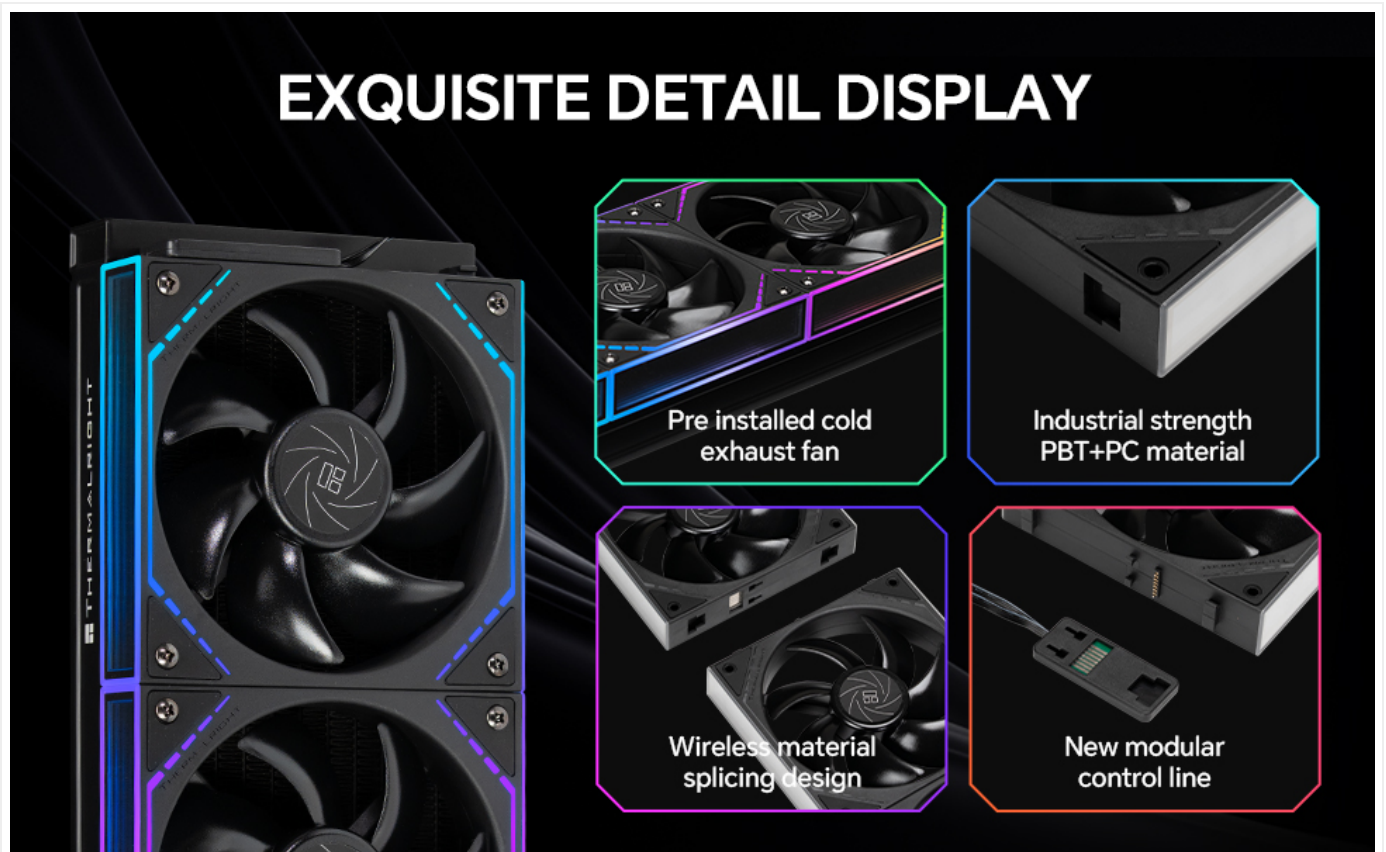


Image: The 320x240 resolution IPS LCD square screen water-cooled display, emphasizing its detailed and lifelike viewing experience with stable viewing angles.

5.2 Fan and Pump Control

Fan and pump speeds are typically controlled via your motherboard's BIOS/UEFI settings or through motherboard-specific software. Ensure the CPU_FAN header is set to PWM mode for optimal control.

6. MAINTENANCE

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure fans are not spinning during cleaning to prevent damage.
- **Cable Check:** Ensure all cables remain securely connected.
- **No Liquid Refill:** This is a closed-loop AIO system and does not require liquid refilling or maintenance. Do not attempt to open the unit.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
High CPU Temperatures	Poor thermal paste application Pump not running Fans not spinning or insufficient airflow Radiator clogged with dust	Reapply thermal paste, ensuring even spread. Check pump power connection to motherboard. Verify pump speed in BIOS. Check fan connections. Ensure fans are set to appropriate speed in BIOS/software. Clean radiator. Clean radiator fins with compressed air.
LCD Display Not Working	USB cable not connected Software not installed or running Driver issue	Ensure internal USB 2.0 cable is securely connected to motherboard. Install/reinstall the dedicated control software from the manufacturer's website. Check Device Manager for any USB device errors.
ARGB Lighting Not Working	ARGB cable not connected Motherboard ARGB header not enabled Software conflict	Ensure ARGB cable is connected to a 5V 3-pin ARGB header (not 12V 4-pin RGB). Check motherboard BIOS/software to enable ARGB control. Ensure no conflicting RGB software is running.

8. SPECIFICATIONS

Feature	Specification
Model Number	FROZEN WARFRAME 360 SE ARGB BLACK V2
Product Dimensions	2.64"L x 4.72"W x 2.32"H (Pump/Cold Plate)
Cooling Method	Liquid (AIO)
Compatible Devices	CPU
Supported Sockets	Intel: LGA115X/1200/1700/1851, AMD: AM4/AM5
Fan Model	TL-M12Q
Maximum Rotational Speed (Fans)	2000 RPM \pm 10%
Noise Level (Fans)	\leq 28.2 dB(A)
Air Flow Capacity (Fans)	68.9 Cubic Feet Per Minute (CFM)
Fan Pressure	2.21 mm/H ₂ O
Pump Speed	Up to 3000 RPM
TDP Cooling Capacity	250W
LCD Screen Size	2 inches
LCD Screen Resolution	320x320 pixels
Power Connector Type	4-Pin (PWM)
Voltage	12 Volts (DC)
Wattage	4 watts
Manufacturer	Thermalright

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official ITleads website or contact their customer service directly. Keep your proof of purchase for warranty claims.

Manufacturer: Thermalright

Brand: ITleads

