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› COOLLEO BL360 Digital Display White ARGB 360mm AIO CPU Cooler Instruction Manual

COOLLEO BL360

COOLLEO BL360 Digital Display White ARGB 360mm AIO CPU Cooler Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your COOLLEO BL360 Digital Display White ARGB 360mm All-in-One (AIO) CPU Liquid Cooler. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.

2. PRODUCT OVERVIEW AND COMPONENTS

The COOLLEO BL360 is a high-performance liquid CPU cooler designed for efficient heat dissipation. It features a digital display, ARGB lighting, and a robust pump and fan system.

2.1. What's in the Box

- COOLLEO BL360 Digital Display White ARGB 360mm AIO CPU Cooler Kit
- Mounting plates and fasteners for AMD and Intel platforms
- Thermal paste
- User manual (this document)



Figure 1: COOLLEO BL360 Digital Display White ARGB 360mm AIO CPU Cooler. This image shows the complete cooler unit, including the radiator with three white ARGB fans and the pump head with its integrated digital display.

3. KEY FEATURES

3.1. Digital Display and Temperature Monitoring

The integrated smart digital display provides real-time visualization of CPU temperature and usage data. This information can be displayed via software or set to alternate at fixed intervals. The system includes a temperature alarm design:

- **Yellow Warning:** Activates when CPU temperature reaches or exceeds 60°C.
- **Red Warning:** Activates when CPU temperature reaches or exceeds 80°C.

INTELLIGENT TEMPERATURE WARNING

When the CPU temperature exceeds 60 degrees Celsius, a yellow alert is displayed to remind the CPU usage status in time

When the CPU temperature exceeds 80 degrees Celsius, a red alert is displayed to remind the CPU usage status in time.



Figure 2: Intelligent Temperature Warning. The digital display on the pump head changes color to indicate CPU temperature status, showing yellow for temperatures above 60°C and red for temperatures above 80°C.

3.2. Advanced Pump Technology

The cooler features a three-phase, nine-stage motor pump designed for efficient and stable operation. This design contributes to lower noise, reduced vibration, and extended lifespan. The pump operates at 3000 RPM \pm 10%.

THREE-PHASE NINE-STAGE MOTOR

A SUPER HEART FOR FLAGSHIP WATER COOLING

Three-phase motors are more efficient than single-phase motors/more stable in operation/lower in noise/less vibration, longer in life. Nine-stage stator has more magnetic poles, smoother phase change, and further reduces vibration/lower noise.



Figure 3: Three-Phase Nine-Stage Motor Pump. An exploded view illustrating the internal components of the pump, highlighting its advanced motor design for improved efficiency and reduced noise.

3.3. High-Performance Fans

Equipped with three Hurricane T28 magnetic 28mm thick PWM fans, constructed from industrial-strength PA66 nylon and PC material. These fans feature double ball bearings for durability and are designed for high airflow (80 CFM \pm 5%) and high air pressure (2.9 mm/H₂O \pm 5%). The fans connect via a magnetic one-line fan set, simplifying cable management.

THE PERFECT PARTNER FOR HIGH AIR PRESSURE THICKENED COOLING ROWS

Hurricane T28Mag High Air Pressure Performance Fan with High Performance Cooling Exhaust

2.9mm/H₂O

Full load wind pressure

80CFM

Maximum airflow

2050RPM

Full load speed



Figure 4: High Air Pressure Thickened Cooling Rows. This image showcases the Hurricane T28Mag fans and their key performance metrics: 2.9 mm/H₂O full load wind pressure, 80 CFM maximum airflow, and 2050 RPM full load speed.

MAGNETIC ONE LINE FAN SET



The fans are connected to each other by metal contacts and POGOPIN elastic thimbles.



The wire contacts are attached to the fan's POGOPIN elastic thimbles via magnets, and one set of wires can realize the functions of power supply, RPM reading and control, and ARGB lighting control for 3 fans. This greatly reduces the difficulty of cable management.

Figure 5: Magnetic One-Line Fan Set. A detailed view of the magnetic connectors on the fans, illustrating how they connect to each other using metal contacts and POGOPIN elastic thimbles for simplified wiring.

3.4. Durable Construction

The pump head features an ARGB magic halo with a 2.5D hardened curved glass cover, enhancing both aesthetics and durability.

2.5D TEMPERED CURVED GLASS

ARGB PHANTOM APERTURE WITH 2.5D CURVED GLASS COVER DELIVERS A WORK OF CRAFTED AESTHETICS WITH A PREMIUM FEEL. SUPPORTING 5V ARGB DIVINE LIGHT SYNCHRONIZATION LETS YOUR HOST ROAM WITH LIGHT.



Figure 6: 2.5D Tempered Curved Glass. A close-up of the pump head's display, highlighting the curved glass cover and ARGB lighting effects.

4. INSTALLATION GUIDE

The COOLLEO BL360 AIO liquid CPU cooler is designed for convenient installation across multiple platforms. Refer to the included installation kits for specific fasteners and plates.

4.1. Compatibility

This cooler supports the following CPU socket platforms:

- **AMD:** AM4, AM5
- **Intel:** LGA 115X, LGA 1200, LGA 1700

4.2. Pre-Installation

1. Ensure your system is powered off and unplugged.

2. Remove your existing CPU cooler. Clean any residual thermal paste from the CPU surface.
3. Identify the correct mounting hardware for your CPU socket from the installation kit.

4.3. Mounting the Water Block

1. Attach the appropriate backplate (if required for your socket) to the motherboard.
2. Secure the standoffs onto the backplate or directly into the motherboard's CPU cooler mounting holes.
3. Apply a small amount of thermal paste to the center of your CPU's integrated heat spreader (IHS).
4. Carefully place the water block onto the CPU, aligning the mounting holes.
5. Secure the water block with the provided screws, tightening them in a diagonal pattern until snug. Avoid over-tightening.

4.4. Radiator and Fan Installation

1. Determine the optimal mounting location for the 360mm radiator within your PC case (e.g., top, front).
2. Mount the radiator to your chosen location using the provided screws. Ensure proper airflow direction (intake or exhaust) for your system.
3. Connect the fans to the radiator. The magnetic one-line fan set simplifies this process; connect the fans to each other, then connect the main fan cable to the motherboard's PWM fan header.
4. Connect the pump's power cable to an appropriate header on your motherboard (e.g., AIO_PUMP or CPU_FAN).
5. Connect the ARGB cable from the pump head and fans to a compatible 5V ARGB header on your motherboard.



Figure 7: Easy-to-Install Fastener Construction. This image displays the various mounting brackets, screws, and standoffs included for different CPU sockets, along with a tube of thermal paste, facilitating a straightforward installation process.

4.5. Software Installation

To utilize the intelligent digital display and monitor CPU data, install the latest English version of the software. The software package can be downloaded from the following link: [Download Software](#).

5. OPERATING INSTRUCTIONS

5.1. Digital Display Operation

Once the cooler is installed and the software is running, the digital display on the pump head will show real-time CPU temperature and usage. You can configure the display settings within the software to show specific data or cycle through information at set intervals.

5.2. Temperature Alerts

The digital display provides visual temperature warnings:

- The display will show a **yellow warning** when the CPU temperature reaches or exceeds 60°C.
- The display will show a **red warning** when the CPU temperature reaches or exceeds 80°C.

These warnings are designed to help you monitor your CPU's thermal status and ensure stable operation.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your COOLLEO BL360 AIO CPU Cooler.

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure fans are not spinning during cleaning.
- **Fan Inspection:** Check fan blades for any obstructions or damage. Ensure fans are securely mounted.
- **Tubing Inspection:** Inspect the water tubes for any kinks, leaks, or damage.
- **Thermal Paste:** While not frequently required, if you ever remove the water block, reapply fresh thermal paste before reinstallation.

7. TROUBLESHOOTING

If you encounter issues with your COOLLEO BL360 cooler, refer to the following common troubleshooting steps:

- **No Power/Lights:** Ensure all power cables (pump, fans, ARGB) are securely connected to the motherboard and power supply. Check motherboard headers for proper configuration in BIOS/UEFI.
- **High CPU Temperatures:**
 - Verify that the water block is properly seated on the CPU and tightened evenly.
 - Confirm that thermal paste was applied correctly.
 - Check fan orientation for proper airflow (e.g., pushing air through the radiator).
 - Ensure pump is running (listen for a faint hum or check software monitoring).
 - Clean any dust buildup on the radiator fins.
- **Fans Not Spinning/ARGB Not Working:**
 - Check fan and ARGB cable connections.
 - Ensure the 5V ARGB header on your motherboard is enabled and configured correctly via

motherboard software.

- Verify that the COOLLEO software is installed and running.
- **Digital Display Not Working:** Ensure the cooler's software is installed and running. Check the display's connection to the motherboard.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	BL360
Color	White
Cooling Method	Liquid (Water)
Radiator Dimensions (L x W x H)	397mm x 120mm x 27mm
Pump Dimensions (L x W x H)	75mm x 75mm x 58mm
Water Pipe Length	380mm
Water Pipe Material	EPDM + IIR
Fan Dimensions (L x W x H)	120mm x 120mm x 28mm
Fan Type	Hurricane T28Mag PWM Fan
Fan Speed	2050 RPM
Fan Airflow	80 CFM \pm 5%
Fan Air Pressure	2.9 mm/H ₂ O \pm 5%
Fan Noise Level	\leq 25.4 dBA \pm 2dBA
Pump Speed	3000 RPM \pm 10%
Pump Noise Level	\leq 28 dBA \pm 2dBA
Pump Life Expectancy	40,000 hours
Input Voltage	12V
Input Current (Pump)	0.28A \pm 10%
Input Current (Fan)	0.18A \pm 10%
Power Connector Type	4-Pin
Compatible Devices	Desktop

Feature	Specification
Supported Sockets	AMD AM4/AM5, Intel LGA 115X/1200/1700
TDP Support	Up to 300W

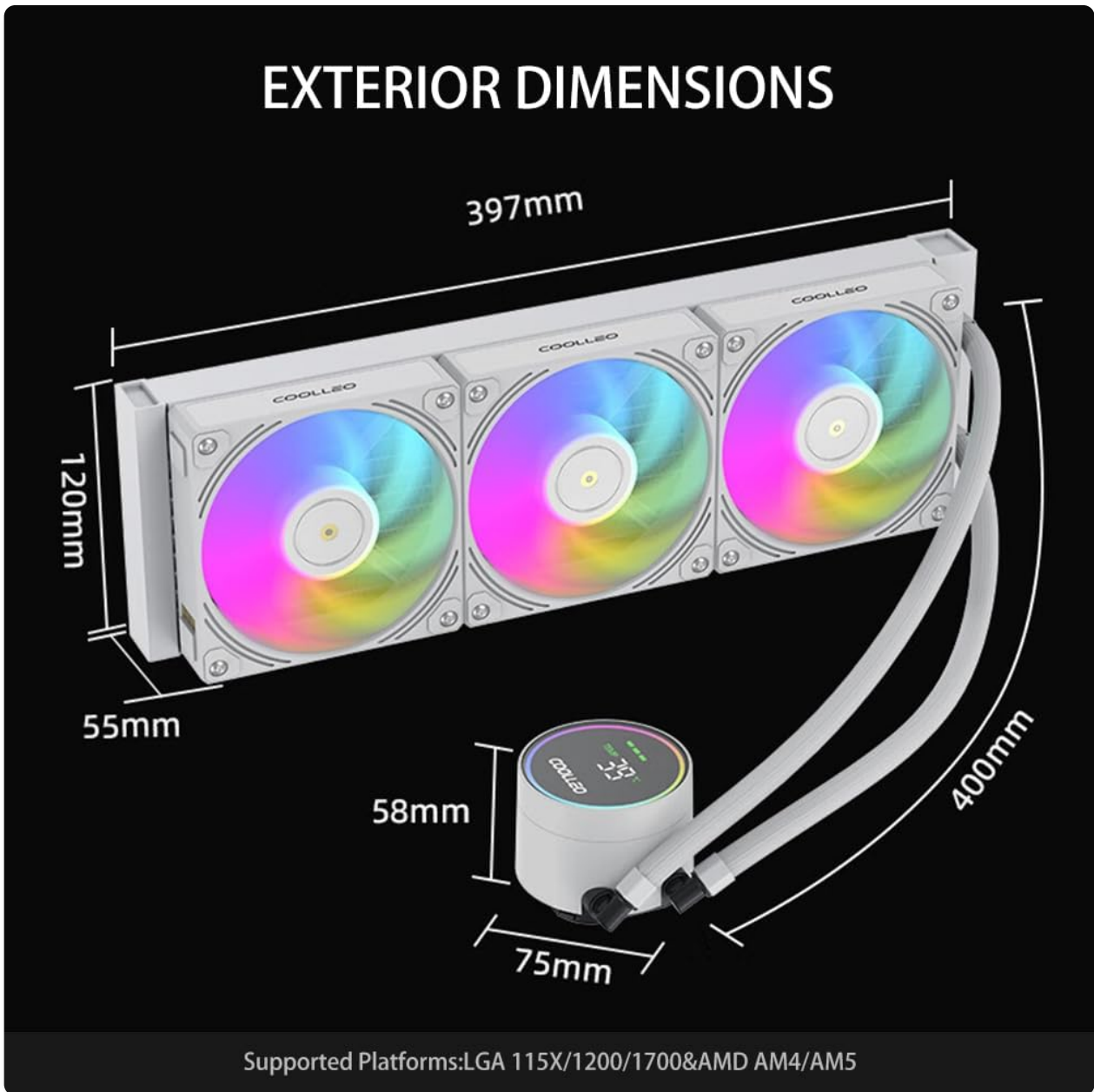


Figure 8: Exterior Dimensions. This diagram provides precise measurements for the radiator, pump head, and water tubes, along with a list of supported CPU platforms.

9. WARRANTY AND SUPPORT

The COOLLEO BL360 Digital Display White ARGB 360mm AIO CPU Cooler comes with a reliable **5-year manufacturer's warranty**. For technical support, warranty claims, or further assistance, please refer to the contact information provided with your product packaging or visit the official COOLLEO website.

