ALSEYE W90-Intel

ALSEYE W90 Digital CPU Cooler for Intel: User Manual

1. Introduction



Image: The ALSEYE W90 Digital CPU Cooler, showcasing its ARGB fan and integrated temperature display.

This manual provides detailed instructions for the installation, operation, and maintenance of your ALSEYE W90 Digital CPU Cooler. The ALSEYE W90 is designed to efficiently cool Intel CPUs, featuring a digital temperature display, ARGB lighting, and a compact design suitable for small form factor PC cases.

2. Product Features



Image: An overview highlighting key features of the ALSEYE W90 CPU Cooler, including ARGB lighting, temperature display, PWM fan control, and the 40mm heat column.

- **Digital Temperature Display:** Real-time CPU temperature monitoring via an integrated display and dedicated "BEM" software.
- **ARGB Lighting:** Equipped with a 90mm ARGB PWM fan, supporting AURA synchronization for customizable lighting effects.
- **Enhanced Cooling Performance:** Features built-in 40mm high copper cooling columns for effective heat dissipation.
- **Compact Design:** Dimensions of 102x102x82 mm, ideal for small PC cases and motherboards.
- **Intel Compatibility:** Supports Intel LGA 1700, LGA 1200, and LGA 115X sockets. Recommended for Intel i3-i5 processors.

3. Installation Guide

Before beginning installation, ensure your system is powered off and disconnected from the power source. Refer to your motherboard manual for specific CPU cooler mounting instructions.

3.1 Package Contents

Verify that all components are present:

- ALSEYE W90 CPU Cooler
- Mounting hardware for Intel LGA 1700/1200/115X
- Thermal paste (pre-applied or included)
- User Manual (this document)

3.2 Preparation

1. **Prepare Motherboard:** If replacing an existing cooler, carefully remove it and clean any old thermal paste from the CPU and motherboard.
2. **Apply Thermal Paste:** Apply a small, pea-sized amount of thermal paste to the center of the CPU's integrated heat spreader (IHS).

3.3 Mounting the Cooler

1. **Install Backplate:** Position the appropriate Intel backplate behind the motherboard, aligning the holes with the CPU socket.
2. **Secure Standoffs:** Screw the standoffs into the backplate from the front side of the motherboard.
3. **Place Cooler:** Carefully place the ALSEYE W90 cooler onto the CPU, ensuring the mounting holes on the cooler align with the standoffs.
4. **Tighten Screws:** Secure the cooler by tightening the mounting screws in a diagonal pattern until snug. Do not overtighten.
5. **Connect Fan Cables:** Connect the 4-pin PWM fan cable to the CPU_FAN header on your motherboard. Connect the ARGB cable to a compatible 3-pin 5V ARGB header on your motherboard.
6. **Connect USB Cable:** Connect the cooler's USB cable to an available internal USB 2.0 header on your motherboard for temperature display and software control.



Image: ALSEYE W90 CPU Cooler showing dimensions and supported Intel LGA sockets (1700/1200/115X).

4. Operating Instructions

4.1 Initial Power On

After successful installation, power on your computer. The CPU cooler fan will begin to spin, and the ARGB lighting will illuminate. The digital display on the cooler will show the CPU temperature.

4.2 Temperature Display

The ALSEYE W90 features an integrated digital display that shows the real-time CPU temperature in Celsius. This display provides immediate visual feedback on your CPU's thermal status.



Image: Close-up view of the ALSEYE W90's digital display showing CPU temperature.

4.3 ARGB Lighting Control

The 90mm fan features Addressable RGB (ARGB) lighting. If connected to a compatible motherboard ARGB header, you can control the lighting effects using your motherboard's synchronization software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome Sync).



Image: ALSEYE W90 CPU Cooler demonstrating ARGB lighting synchronization with various motherboard software.

4.4 ALSEYE "BEM" Software

For advanced monitoring and control, download and install the ALSEYE "BEM" software from the official ALSEYE website. This software allows you to:

- Read accurate real-time CPU temperature.
- Adjust fan speeds (if supported by the software and motherboard).
- Customize ARGB lighting effects (if not controlled by motherboard software).

Note: Some users have reported discrepancies between the cooler's digital display and the software readings, or issues with the display when the software is minimized. Ensure your software is up-to-date and consult ALSEYE support if issues persist.

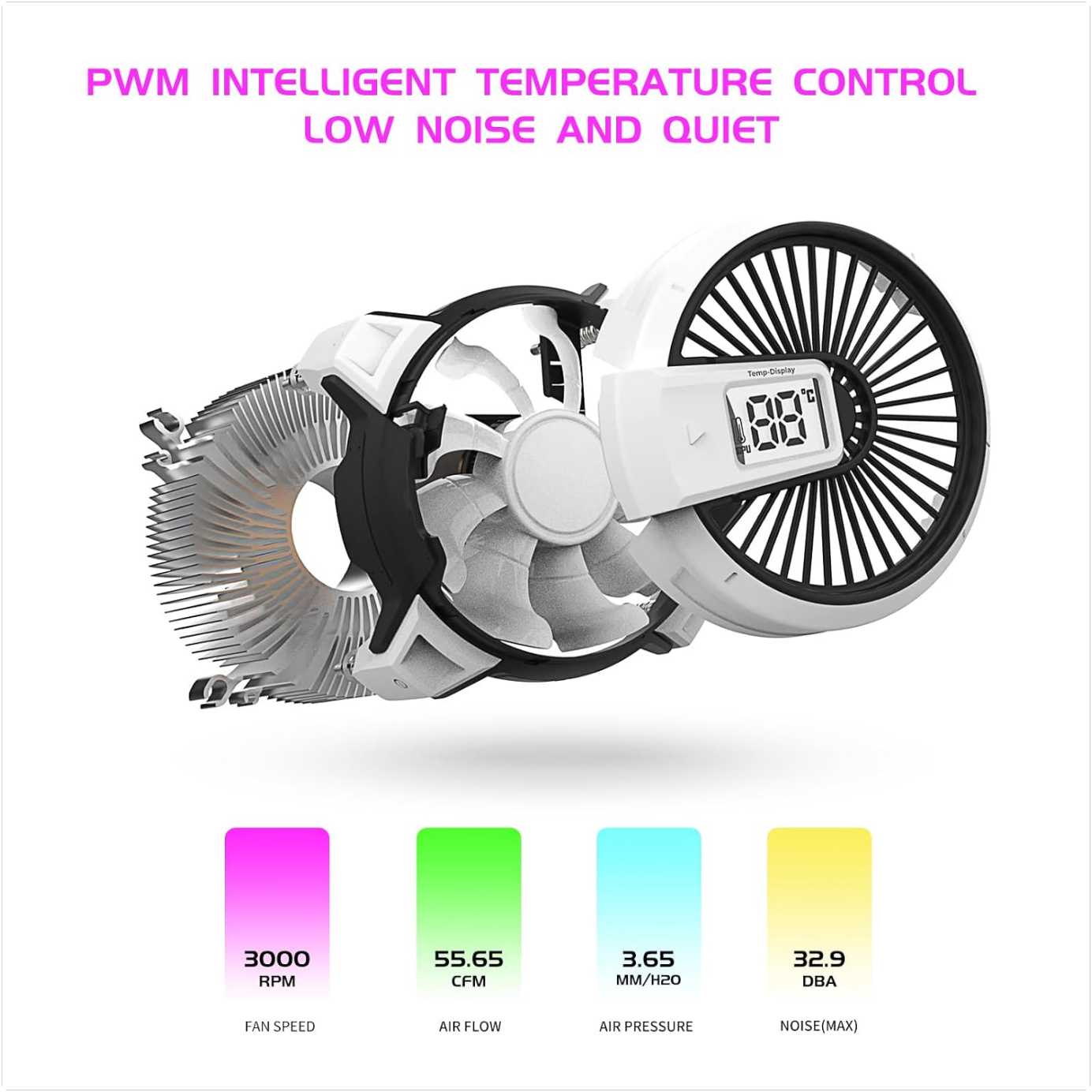


Image: A diagram illustrating the PWM intelligent temperature control of the ALSEYE W90, detailing fan speed (3000 RPM), airflow (55.65 CFM), air pressure (3.65 MM/H2O), and maximum noise level (32.9 dBA).

4.5 Product Demonstration Video

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Video: A demonstration of the ALSEYE W90 Digital CPU Cooler installed in a PC, showcasing its ARGB lighting effects and digital temperature display. (Duration: 0:38)

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your CPU cooler.

- **Dust Cleaning:** Periodically clean the fan blades and heatsink fins using compressed air or a soft brush to remove dust buildup. Dust accumulation can impede airflow and reduce cooling efficiency.
- **Thermal Paste:** Reapply thermal paste every 1-2 years, or if the cooler is removed and reinstalled, to maintain good thermal contact between the CPU and cooler.

- **Fan Inspection:** Check the fan for any unusual noises or wobbling. Replace the fan if it becomes excessively noisy or damaged.

6. Troubleshooting

Problem	Possible Cause	Solution
CPU temperature is high	Insufficient thermal paste; Poor cooler mounting; Dust buildup; Inadequate case airflow.	Reapply thermal paste; Re-mount cooler securely; Clean fan and heatsink; Improve case ventilation.
Fan not spinning or spinning slowly	Fan cable disconnected; Incorrect fan header; Fan failure.	Ensure 4-pin PWM cable is connected to CPU_FAN header; Check BIOS/UEFI settings for fan control; Replace fan if faulty.
ARGB lighting not working or incorrect colors	ARGB cable disconnected; Incorrect ARGB header (e.g., 12V RGB instead of 5V ARGB); Software conflict.	Ensure 3-pin 5V ARGB cable is connected correctly; Use compatible motherboard software; Reinstall ALSEYE BEM software.
Digital temperature display inaccurate or frozen	USB cable disconnected; Software issue; Sensor malfunction.	Verify internal USB 2.0 header connection; Update or reinstall ALSEYE BEM software; Contact support if issue persists.

7. Specifications

Feature	Detail
Model Number	W90-Intel
Product Dimensions	4.02"L x 4.02"W x 3.23"H (102 x 102 x 82 mm)
Supported Sockets	Intel LGA 1700/1200/115X
TDP (Thermal Design Power)	Approximately 135W (Not recommended for overclocking)
Fan Size	90mm
Lighting	ARGB (Addressable RGB) with AURA Synchronization support
Heat Column	40mm high copper cooling columns
Manufacturer	ALSEYE

8. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or visit the official ALSEYE website. For technical support, driver downloads (e.g., BEM software), or further assistance, please visit the official ALSEYE website or contact ALSEYE customer service.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question