

Ocypus Sigma L24 BK ARGB

Ocypus Sigma L24 BK ARGB AIO CPU Cooler User Manual

Model: Sigma L24 BK ARGB

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1. INTRODUCTION

The Ocypus Sigma L24 BK ARGB AIO CPU Cooler is an all-in-one liquid cooling solution designed for high-performance computing. It features a 2.4-inch IPS LCD screen with 320x240px resolution, allowing for customizable display of system information and personalized visuals. Crafted from aerospace-grade aluminum, this cooler integrates ARGB lighting effects for a dynamic aesthetic. Key features include an efficient pump with ceramic bearings, high-performance silent fans, magnetic mounting for the pump head, and durable all-metal installation brackets. This cooler is compatible with a wide range of Intel and AMD mainstream platforms.



Image 1.1: The Ocypus Sigma L24 BK ARGB AIO CPU Cooler showcasing its refracted light aesthetics and integrated ARGB lighting.

2. WHAT'S IN THE BOX

Verify that all components are present before beginning installation:

- Sigma L24 ARGB AIO CPU Cooler (Radiator, Pump with 2.4" LCD Screen, and Tubing)

- 2 x ARGB High-Performance Silent Fans
- Intel Mounting Brackets and Hardware (LGA 115X/1200/1700/1851)
- AMD Mounting Brackets and Hardware (AM4/AM5)
- Thermal Paste
- USB 2.0 Connection Cable
- Fan PWM Y-Cable
- ARGB Sync Cable
- User Manual

3. SPECIFICATIONS

Feature	Specification
Product Dimensions	10.87"L x 4.72"W x 2.05"H
Brand	Ocypus
Power Connector Type	4-Pin
Voltage	12 Volts (DC)
Wattage	280 watts
Cooling Method	Water
Compatible Devices	CPU, Desktop
Noise Level (Pump)	<27dB(A)
Noise Level (Fan)	≤29dB(A)
Material	Aluminum, Ceramic, Metal, Plastic
Maximum Rotational Speed (Pump)	3100 RPM ±10%
Fan Speed	500~2000 RPM ±10%
Air Flow Capacity (MAX)	73 CFM
Air Pressure (MAX)	4.3mmH2O
TDP Support	Up to 280W
LCD Screen	2.4-inch IPS, 320 × 240px Resolution
Pump Bearing	Ceramic Bearing
CPU Socket Compatibility	Intel LGA 115X/1200/1700/1851, AMD AM4/AM5

4. SETUP & INSTALLATION

This section outlines the general steps for installing your Ocypus Sigma L24 BK ARGB AIO CPU Cooler. Refer to the included quick start guide for detailed, step-by-step diagrams specific to your CPU socket type.

4.1 Prepare Your Motherboard

1. Identify your CPU socket type (Intel LGA 115X/1200/1700/1851 or AMD AM4/AM5).
2. Install the appropriate backplate (if required for your socket) and standoffs onto your motherboard.

4.2 Install Radiator and Fans

1. Attach the two ARGB fans to the radiator using the provided screws. Ensure the fan airflow direction is correct for your case configuration (typically exhausting air out of the case).
2. Mount the radiator assembly to an available fan mount location in your PC case (e.g., top, front, or rear).



Image 4.1: The two efficient ARGB cooling fans included with the cooler, showing their specifications.

4.3 Install Pump Head

1. Apply thermal paste to the CPU's integrated heat spreader (IHS) if not pre-applied to the cold plate.
2. Secure the pump head onto the CPU using the appropriate all-metal mounting brackets and screws. The pump head and screen part connect via magnetic attachment, allowing for flexible adjustment of orientation.

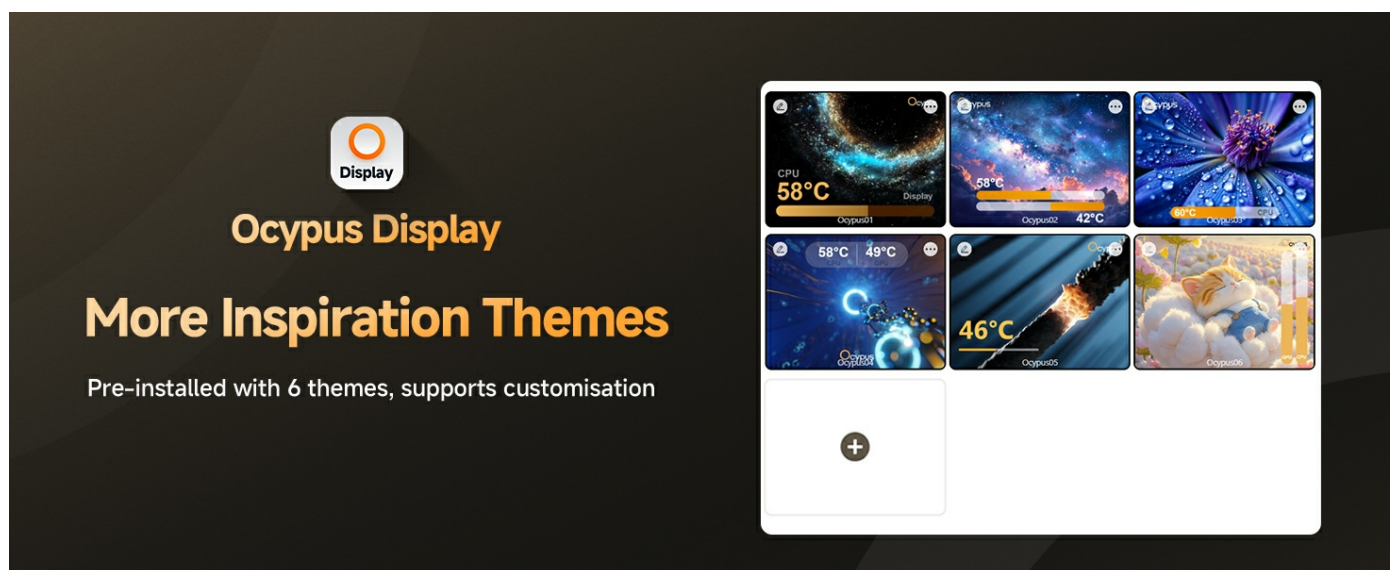


Image 4.2: The magnetic mounting feature of the pump head, allowing for easy installation and orientation adjustment.

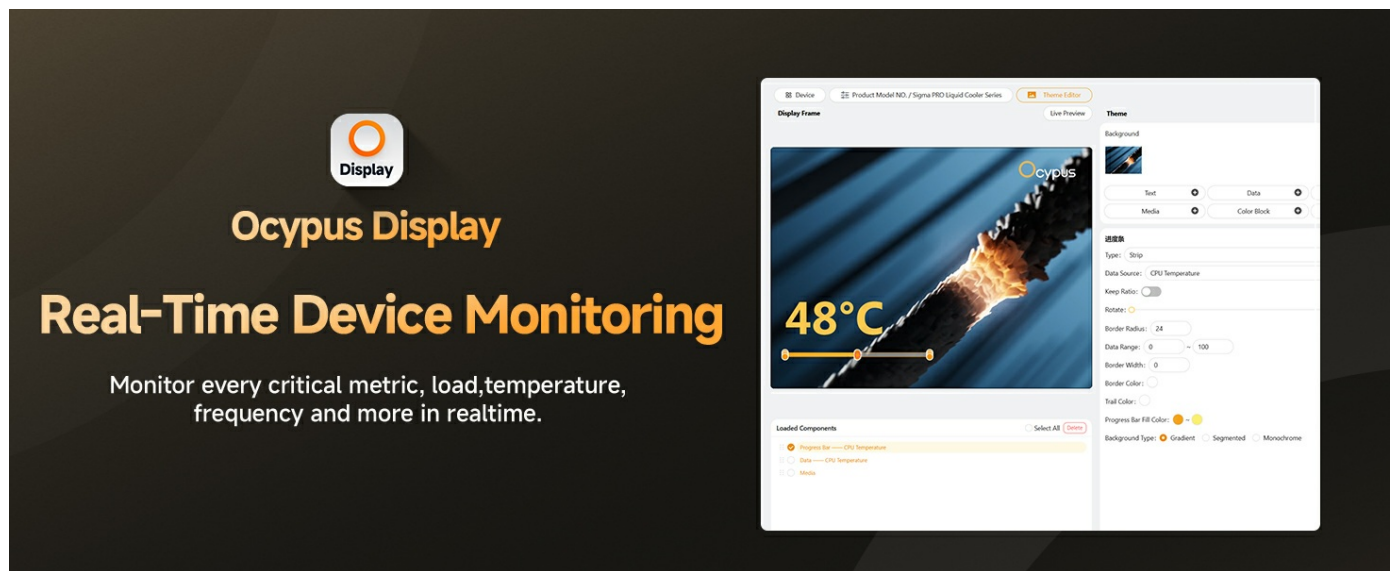


Image 4.3: Overview of the all-metal mounting brackets for Intel and AMD mainstream platforms.

4.4 Cable Connections

1. Connect the pump's 4-pin PWM cable to the CPU_FAN or AIO_PUMP header on your motherboard.
2. Connect the fan PWM cables to the CPU_FAN or a dedicated fan header, using the Y-cable if necessary.
3. Connect the ARGB cables from the fans and pump to an available 5V ARGB header on your motherboard or an ARGB controller.
4. Connect the USB 2.0 cable from the pump to an available USB 2.0 header on your motherboard. This is essential for the Ocupus Display software functionality.

5. OPERATING INSTRUCTIONS

The Ocupus Sigma L24 BK ARGB AIO CPU Cooler features a 2.4-inch IPS screen that can be customized using the dedicated Ocupus Display software.

5.1 Ocupus Display Software Installation

1. **Download:** Access the official Ocupus website to download the "Ocupus Display" installation package.
2. **Compatibility:** The software supports Windows 10 and Windows 11 operating systems.
3. **USB Connection:** Ensure the cooler is connected to your motherboard via a USB 2.0 port.
4. **Whitelist:** During installation, add the software to your system's antivirus or security software whitelist. Failure to do so may result in the software being blocked and rendered unusable. The software is guaranteed to be 100% secure.

Refracted Light Aesthetics

Aerospace-grade aluminum iconic circular, integrated ring ARGB light within the pump head, diffused halos as it reflects, delivering a smooth and dynamic aesthetics.

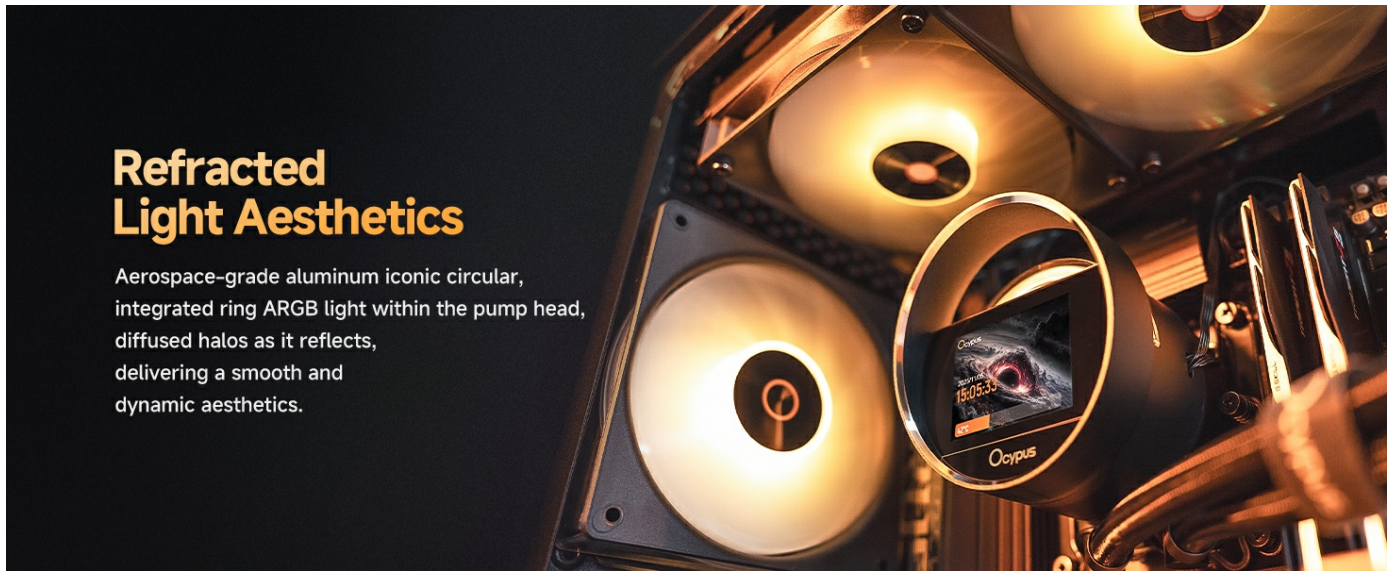


Image 5.1: The Ocybus Display software interface, showing options for themes and monitoring.

5.2 Customizing the Screen Display

Once the Ocybus Display software is installed and running, you can customize the 2.4-inch IPS screen:

- **Themes:** Choose from pre-installed themes or create your own custom layouts.
- **Content:** The screen supports various media types including MP4 videos, JPEG, BMP, and PNG images, and dynamic GIFs.
- **Monitoring:** Display real-time critical metrics such as CPU temperature, load, frequency, and other system statistics.



Image 5.2: A close-up view of the 2.4-inch IPS display showing real-time CPU temperature monitoring.

6. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean the radiator fins and fan blades with compressed air to prevent dust buildup, which can impede cooling performance. Ensure fans are not spinning during cleaning.
- **Cable Management:** Ensure all cables are securely connected and not obstructing airflow within your PC case.
- **Visual Inspection:** Occasionally inspect the tubing for any signs of leaks or damage. While rare, early detection can prevent potential issues.
- **Software Updates:** Keep the Ocybus Display software updated to the latest version for new features, performance

improvements, and bug fixes.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Ocybus Sigma L24 BK ARGB AIO CPU Cooler.

7.1 Cooler Not Functioning / No Display

- **Power Connection:** Verify that the pump's 4-pin PWM cable is securely connected to the motherboard's CPU_FAN or AIO_PUMP header.
- **USB Connection:** Ensure the USB 2.0 cable is properly connected from the pump to an available USB 2.0 header on your motherboard. The display requires this connection.
- **Software Whitelist:** If the display is blank or the software isn't detecting the cooler, confirm that the "Ocybus Display" software has been added to your antivirus or security software's whitelist.

7.2 High CPU Temperatures

- **Thermal Paste:** Ensure thermal paste was applied correctly and evenly between the CPU and the cold plate.
- **Pump Contact:** Verify that the pump head is making firm and even contact with the CPU. Re-tighten mounting screws if necessary.
- **Fan Orientation:** Check that the radiator fans are oriented correctly for optimal airflow within your case.
- **Dust Buildup:** Clean any dust from the radiator fins and fan blades.
- **Pump Operation:** Listen for pump operation. A silent pump might indicate a malfunction. Check pump RPM in BIOS or monitoring software.

7.3 Excessive Noise

- **Fan Speed:** Check fan speeds in your motherboard's BIOS or fan control software. Adjust fan curves to reduce noise if temperatures allow.
- **Pump Noise:** A slight hum from the pump is normal. Excessive gurgling or grinding might indicate air bubbles in the loop. Gently tilt your PC case to help dislodge air bubbles.
- **Vibrations:** Ensure all fans and the radiator are securely mounted to prevent rattling or vibration noises.

8. WARRANTY & SUPPORT

The Ocybus Sigma ARGB CPU liquid cooler range comes with a comprehensive **five-year warranty** from the date of purchase. Should you encounter any issues, have questions regarding software operation, or find any missing components, please contact Ocybus customer support. Refer to the official Ocybus website or your purchase documentation for specific contact details. When contacting support, please have your product model (Sigma L24 BK ARGB) and proof of purchase readily available to expedite the process.

ASK A QUESTION ABOUT THIS MANUAL

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