NZXT RL-KN360-B1

NZXT 360mm AIO CPU Liquid Cooler Instruction Manual

Model: RL-KN360-B1

1. INTRODUCTION

The NZXT Kraken RL-KN360-B1 delivers chillingly cool performance, an easy install, and a display screen for system specs or custom images.

Key Features:

- **PERSONALIZATION THAT POPS:** Display a favorite animated GIF or static image, monitor real-time PC performance metrics, see music that's currently playing, integrate web content and more with NZXT CAM software.
- **LCD DISPLAY:** 1.54" square LCD display with 240x240 resolution, 30 Hz refresh rate, and bright 300 cd/m² backlight brings on-screen content to life.
- **HIGH-PERFORMANCE PUMP:** The powerful Asetek pump operates at up to 2,800 RPM to ensure efficient and quiet coolant circulation.
- **POWERFUL COOLING:** Static Pressure Fans with fluid dynamic bearings provide an optimal balance of high static pressure and airflow for powerful cooling with minimal noise.
- **SIMPLE SETUP:** A single breakout cable from pump to motherboard makes for easy installation.

What's in the Box:

- Liquid Cooler

Figure 1: NZXT 360mm AIO CPU Liquid Cooler components.

2. SETUP

Follow these steps for proper installation of your NZXT Kraken AIO CPU Liquid Cooler.

2.1 Pre-Installation Notes

- The cooler comes with pre-applied thermal paste on the copper cooling plate, simplifying installation.
- Ensure your CPU socket (Intel or AMD) is compatible and use the appropriate mounting hardware provided.
- The pump features a 1.54" square LCD display for real-time monitoring and customization.

HIGH-PERFORMANCE PUMP

The powerful Asetek pump circulates coolant efficiently and quietly.

Figure 2: High-performance Asetek pump with pre-applied thermal paste.

2.2 Component Overview

POWERFUL COOLING

Static Pressure Fans with fluid dynamic bearings provide powerful cooling with minimal noise.

Figure 3: Powerful cooling is provided by static pressure fans with fluid dynamic bearings.

REINFORCED TUBING

Nylon-braided sleeves protect the rubber tubing from leaks and ensure worry-free handling.

Figure 4: Nylon-braided sleeves protect the rubber tubing from leaks and ensure worry-free handling.

2.3 Installation Steps

1. Mount the radiator and fans to your PC case.
2. Secure the pump to your CPU using the appropriate mounting brackets.
3. Connect the single breakout cable from the pump to your motherboard.
4. Connect the SATA power cable from the pump to your power supply.
5. Connect the fan cables to the appropriate headers on your motherboard or fan controller.

SIMPLE SETUP

A single breakout cable from pump to motherboard makes for easy installation.

Figure 5: A single breakout cable from pump to motherboard makes for easy installation.

Figure 6: Includes all necessary mounting hardware for both Intel and AMD CPU sockets.

2.4 Official Installation Video

Video 1: Official NZXT video demonstrating the Kraken & Kraken Elite AIO coolers. This video provides a visual guide to the installation process and highlights key features.

3. OPERATING

The NZXT Kraken AIO CPU Liquid Cooler features a customizable LCD display and is controlled via the NZXT CAM software.

3.1 LCD Display Customization

- The 1.54" square LCD display offers 240x240 resolution and a 30 Hz refresh rate.
- Customize the display to show real-time PC performance metrics (CPU/GPU temperature, liquid temperature), animated GIFs, static images, or web content.
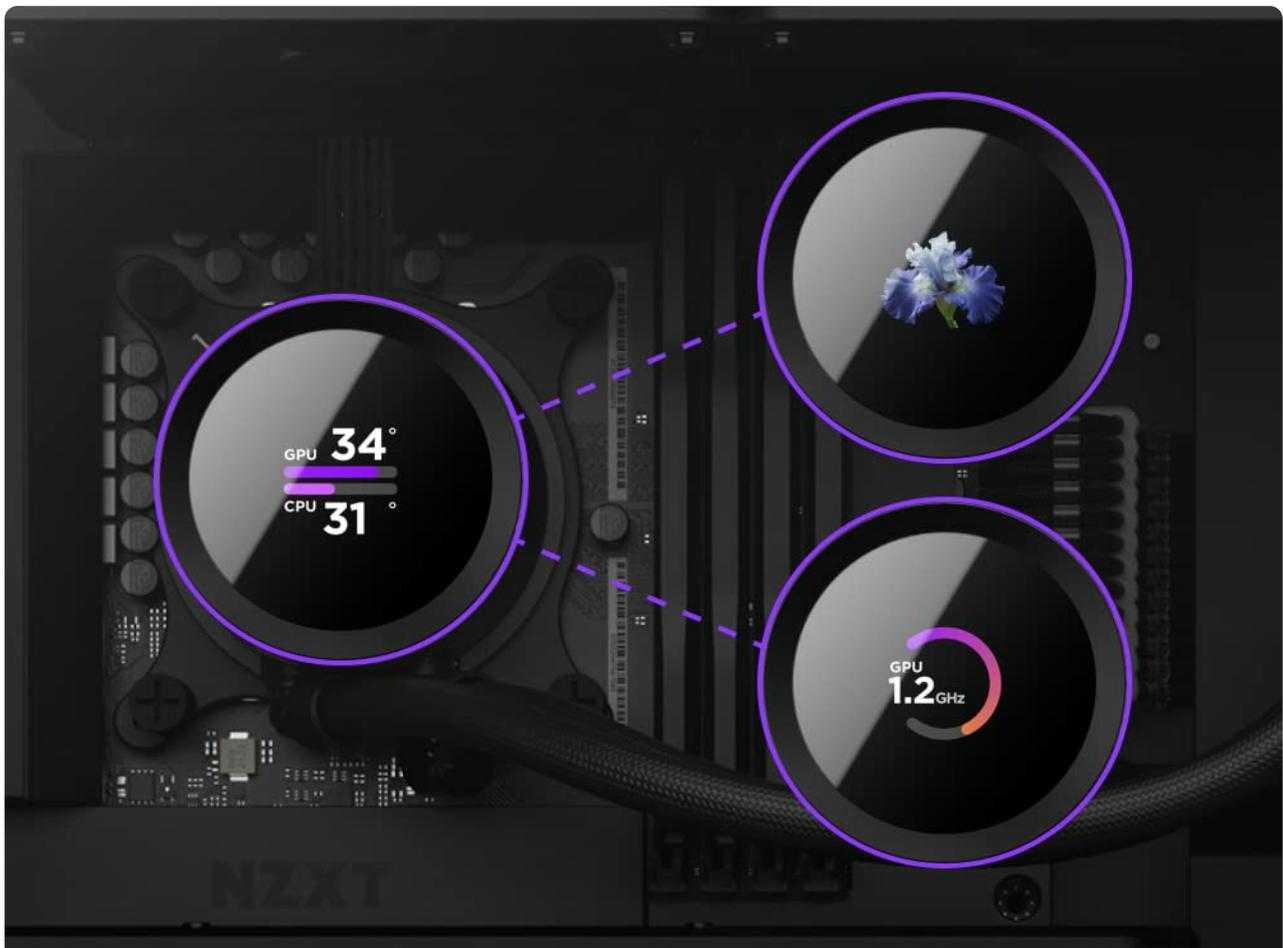
1.54" LCD

240x240 Resolution

30 Hz

LCD DISPLAY

1.54" square LCD display with 240x240 resolution, 30 Hz refresh rate, and high brightness.

Figure 7: The 1.54" LCD display provides clear visuals of system metrics.

Figure 8: Personalization options allow displaying real-time PC performance metrics.

3.2 NZXT CAM Software

The NZXT CAM software is essential for controlling and customizing your Kraken AIO. It allows you to:

- Monitor system performance.
- Adjust pump and fan speeds.
- Customize LCD display content and lighting effects.

4. MAINTENANCE

To ensure optimal performance and longevity of your NZXT Kraken AIO CPU Liquid Cooler, consider the following general maintenance tips:

- **Dust Removal:** Regularly clean dust from the radiator fins and fans using compressed air. Accumulated dust can impede airflow and reduce cooling efficiency.

- **Cable Management:** Ensure all cables are neatly managed to prevent interference with fan blades and to promote better airflow within your PC case.
- **Software Updates:** Keep your NZXT CAM software updated to the latest version to benefit from performance improvements, new features, and bug fixes.
- **Visual Inspection:** Periodically inspect the tubing for any signs of kinks, damage, or leaks. While the reinforced tubing is designed for durability, visual checks can help identify potential issues early.

5. TROUBLESHOOTING

If you encounter issues with your NZXT Kraken AIO CPU Liquid Cooler, consider these common troubleshooting steps:

- **High Temperatures:** Ensure fans are spinning correctly and are free of dust. Verify that the pump is securely mounted to the CPU and that thermal paste is making good contact. Check NZXT CAM software for pump and fan speed settings.
- **Pump Noise:** If you hear unusual noises from the pump, ensure it is properly mounted and not vibrating against other components. Check for air bubbles in the loop (though rare in sealed AIOs, sometimes tilting the case can help).
- **LCD Display Issues:** If the display is not working or showing incorrect information, ensure the USB connection to the motherboard is secure. Restart the NZXT CAM software or your PC. Check for software updates.
- **RGB Lighting Problems:** Verify all RGB connections are secure. Use NZXT CAM software to troubleshoot and adjust lighting settings. Ensure no conflicts with other RGB software.
- **Software Not Detecting Cooler:** Ensure all cables (USB, SATA power) are correctly connected. Reinstall NZXT CAM software if necessary. Check your motherboard's BIOS settings for USB port functionality.

6. SPECIFICATIONS

Feature	Detail
Product Dimensions	15.51 x 1.06 x 4.76 inches; 4.41 Pounds (15.51"L x 1.06"W x 4.76"H)
Item Model Number	RL-KN360-B1
Date First Available	May 11, 2023
Manufacturer	Nzxt
Brand	NZXT
Power Connector Type	4-Pin
Voltage	12 Volts

Feature	Detail
Wattage	11.88 watts
Cooling Method	Water
Compatible Devices	Desktop
Noise Level	30.6 dB
Material	Polycarbonate
Maximum Rotational Speed	2800 RPM

7. WARRANTY AND SUPPORT

The NZXT Kraken AIO CPU Liquid Cooler comes with a robust 6-year warranty, ensuring long-term reliability and peace of mind.

For detailed installation instructions and further support, please refer to the official User Manual:

Download User Manual (PDF)

Additional support and control features are available through the NZXT CAM software, which allows for monitoring, customization, and troubleshooting.