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> NZXT Kraken 240 RGB - 240mm AIO CPU Liquid Cooler - Customizable 1.54" Square LCD Display for Images, Performance Metrics - High-Performance Pump - 2 x F120 RGB Core Fans - White 240mm Radiator Kraken RGB White

## NZXT RL-KR240-W1

# NZXT Kraken 240 RGB AIO CPU Liquid Cooler User Manual

Brand: NZXT

Model: RL-KR240-W1

## INTRODUCTION

The NZXT Kraken 240 RGB is a high-performance 240mm All-in-One (AIO) CPU liquid cooler designed to provide efficient cooling for your processor while offering extensive customization options. It features a vibrant 1.54-inch square LCD display for real-time performance metrics, custom images, and animated GIFs. Equipped with a powerful Asetek pump and F120 RGB Core Fans, this cooler ensures optimal thermal management and stunning visual effects for your PC build.

## 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/m<sup>2</sup> 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.
- **COLORFUL COOLING:** RGB Core Fans with fluid dynamic bearings provide an optimal balance of static pressure and airflow for powerful cooling plus vivid RGB lighting.
- **SIMPLE SETUP:** A single breakout cable from pump to motherboard makes for easy installation.



Figure 1: The NZXT Kraken 240 RGB AIO CPU Liquid Cooler, featuring two RGB fans and a customizable LCD display on the pump.

## WHAT'S IN THE BOX

- AIO CPU Cooler (includes pump, radiator, and pre-installed fans)

## SETUP

Proper installation is crucial for optimal performance and longevity of your NZXT Kraken 240 RGB cooler. Follow these general steps for setup:

1. **Prepare Motherboard:** Ensure your motherboard is ready for AIO installation. This typically involves removing any existing CPU cooler and cleaning the CPU surface. The Kraken 240 RGB includes all necessary mounting hardware for both Intel and AMD CPU sockets.
2. **Mount Radiator:** Install the 240mm radiator to an available fan mount in your PC case. Common locations include the top or front of the case. Ensure proper airflow direction (intake or exhaust) based on your case's thermal design.
3. **Install Pump/Cold Plate:** Carefully place the pump/cold plate assembly onto your CPU. The cooler comes with pre-applied

thermal paste, simplifying this step. Secure it using the provided mounting brackets and screws.

4. **Connect Cables:** Connect the single breakout cable from the pump to your motherboard's CPU fan header or AIO pump header. Connect the RGB fans to the appropriate fan headers or the NZXT RGB controller if available.
5. **Software Installation:** Download and install the NZXT CAM software from the official NZXT website. This software is essential for controlling the LCD display, fan speeds, pump performance, and RGB lighting.



## SIMPLE SETUP

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

Figure 2: Simple setup with a single breakout cable connecting the pump to the motherboard.

Video 1: Unboxing and close-up of the NZXT Kraken 240 RGB components, useful for initial setup.

Video 2: Overview of the NZXT AIO CPU Liquid Cooler, demonstrating its appearance and some installation aspects within a PC case.

Video 3: Demonstration of the NZXT Kraken cooler installed in a PC case, showing its aesthetic integration.

## OPERATING INSTRUCTIONS

The NZXT CAM software is your primary interface for controlling and monitoring your Kraken 240 RGB cooler. After installation, launch the CAM software to access its features:

- **LCD Display Customization:** Navigate to the 'Lighting' or 'LCD Display' section within CAM. Here you can upload custom images (GIF, PNG, JPG), animated GIFs, or select from pre-set options to personalize your pump's display. You can also choose to display real-time CPU/GPU temperatures, liquid temperatures, or other performance metrics.
- **Cooling Control:** In the 'Cooling' section, you can adjust pump speed and fan curves. Choose between pre-defined profiles (e.g., Silent, Performance) or create custom curves based on CPU/GPU temperature to optimize cooling performance and noise levels.
- **RGB Lighting:** Control the RGB lighting of your F120 RGB Core Fans and the pump's RGB ring. Select from various lighting effects, colors, and synchronize them with other NZXT RGB components.
- **System Monitoring:** The CAM software provides comprehensive monitoring of your PC's components, including CPU, GPU, and liquid temperatures, fan speeds, and overall system load.

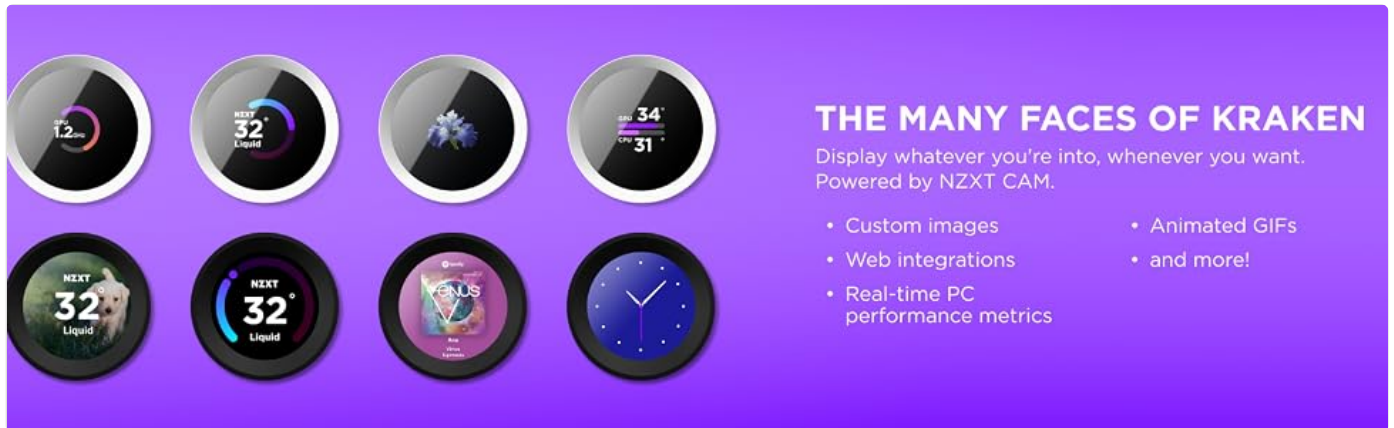


Figure 3: The NZXT CAM software allows extensive customization of the LCD display with various images and GIFs.

Video 4: A detailed showcase of the custom screen functionality on the NZXT Kraken, demonstrating various display options.

Video 5: A short clip demonstrating GIF and RGB customization on the Kraken Elite 360, applicable to the 240 RGB model.

Video 6: A brief preview showing the CPU cooler in operation, highlighting the LCD display.

## MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your AIO liquid cooler:

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fans using compressed air. Accumulated dust can impede airflow and reduce cooling efficiency.
- **Check Tubing and Connections:** Visually inspect the tubing and connections for any signs of leaks or damage. The nylon-braided sleeves provide protection, but regular checks are recommended.
- **Software Updates:** Keep your NZXT CAM software updated to the latest version. Updates often include performance improvements, bug fixes, and new features.
- **Monitor Temperatures:** Regularly monitor CPU and liquid temperatures via NZXT CAM to ensure the cooler is performing within expected parameters. Significant temperature increases may indicate an issue.



## REINFORCED TUBING

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

Figure 4: The reinforced tubing of the NZXT Kraken AIO cooler, designed for durability and leak prevention.

## TROUBLESHOOTING

If you encounter issues with your NZXT Kraken 240 RGB, consider the following troubleshooting steps:

- **High Temperatures:** Ensure fans are spinning correctly and are free of dust. Verify pump is running (check RPM in CAM). Re-seat the cold plate on the CPU to ensure proper contact and thermal paste application.
- **Pump Noise:** Check for air bubbles in the loop. Orient the radiator so that the pump is not the highest point in the loop, allowing air to collect in the radiator.
- **LCD Display Not Working/Frozen:** Ensure the USB connection from the pump to the motherboard is secure. Restart the NZXT CAM software or your computer. Check for firmware updates for the cooler within CAM.
- **RGB Lights Not Working:** Verify all RGB cables are correctly connected to the fans and the NZXT RGB controller. Check RGB settings in NZXT CAM.
- **NZXT CAM Not Detecting Cooler:** Ensure the USB cable from the pump is securely connected to an internal USB 2.0 header on your motherboard. Try a different USB header if available. Reinstall NZXT CAM software.

# SPECIFICATIONS

| Attribute                | Value                                   |
|--------------------------|-----------------------------------------|
| Product Dimensions       | 4.84 x 10.83 x 1.18 inches; 2.87 Pounds |
| Item Model Number        | RL-KR240-W1                             |
| Date First Available     | March 10, 2023                          |
| Manufacturer             | Nzxt                                    |
| Brand                    | NZXT                                    |
| Power Connector Type     | 4-Pin                                   |
| Voltage                  | 12 Volts                                |
| Wattage                  | 12 watts                                |
| Cooling Method           | Water                                   |
| Compatible Devices       | Desktop                                 |
| Noise Level              | 33.88 dB                                |
| Material                 | Rubber                                  |
| Maximum Rotational Speed | 2800 RPM                                |

# WARRANTY AND SUPPORT

The NZXT Kraken 240 RGB AIO CPU Liquid Cooler comes with a manufacturer’s warranty. For specific warranty terms, duration, and to access technical support, please refer to the official NZXT website or contact their customer service directly. Online resources, FAQs, and driver downloads are also available on the NZXT support page.

## 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.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### 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**