

ASUS ROG RYUJIN II 240 ARGB

ASUS ROG Ryujin II 240 ARGB Liquid CPU Cooler User Manual

Model: ROG RYUJIN II 240 ARGB

Brand: ASUS

INTRODUCTION

The ASUS ROG Ryujin II 240 ARGB is an all-in-one liquid CPU cooler designed for high-performance systems. It features a 240mm radiator, a 7th Generation Asetek pump, two ROG 120mm ARGB radiator fans, and an embedded fan for the CPU socket area. This cooler is compatible with Intel LGA1700, 1200, and AM5, AM4 sockets. Its 3.5" color LCD and Aura Sync RGB lighting allow for extensive customization. This manual provides essential information for installation, operation, and maintenance.

PACKAGE CONTENTS

Ensure all items are present before beginning installation:

- ROG RYUJIN II 240 ARGB Liquid CPU Cooler
- Mounting Hardware for Intel and AMD Sockets
- 2x ROG 120mm ARGB Radiator Fans
- Fan Controller Box
- USB Cable
- Thermal Paste (pre-applied or separate)
- User Manual (this document)

Note: Contents may vary slightly based on region or specific package version.

PRODUCT OVERVIEW

Familiarize yourself with the main components of your ASUS ROG Ryujin II 240 ARGB Liquid CPU Cooler.

At a Glance

At A Glance



This diagram illustrates the key components: the 3.5" LCD Screen, Pump Embedded Fan, Pump, Gasket, Cold Plate, and Retention Kit. The unit is cooled by Asetek technology.

Fan Controller Box

The Fan Controller Box provides connectivity for your fans and ARGB lighting.

Fan Controller Box



The controller features 4x 3-Pin Addressable Gen 2 RGB Headers and 4x 4-Pin PWM Fan Headers, enabling synchronized lighting and fan speed control via ASUS Aura Sync.

Optimized Fan Design

The ROG AF 12S ARGB fans are designed for high airflow and minimal noise.

Optimized fan design

ROG AF 12S ARGB fan



These 120mm ARGB fans ensure efficient heat dissipation from the radiator while maintaining quiet operation.

SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and unplugged. Refer to your motherboard manual for specific fan and pump header locations.

Step 1: Prepare the CPU Socket

1. Identify your CPU socket type (Intel LGA1700, 1200, or AMD AM5, AM4).
2. Install the appropriate backplate and standoffs for your motherboard.

Step 2: Mount Radiator Fans

1. Attach the two ROG 120mm ARGB fans to the radiator using the provided screws.
2. Ensure the fan airflow direction is appropriate for your case's cooling strategy (intake or exhaust).

Step 3: Install Radiator

1. Mount the radiator assembly to your PC case. Common mounting locations include the top or front of the case.

Step 4: Install Pump/Cold Plate

1. Apply thermal paste to the CPU IHS if not pre-applied on the cold plate.
2. Carefully place the pump/cold plate assembly onto the CPU, aligning it with the standoffs.
3. Secure the pump with the retention kit screws, tightening them in a cross pattern until snug.

Step 5: Connect Cables

1. Connect the pump's power cable to the dedicated AIO_PUMP or CPU_FAN header on your motherboard.
2. Connect the fan cables from the radiator fans to the Fan Controller Box.
3. Connect the ARGB cables from the fans to the Addressable Gen 2 RGB Headers on the Fan Controller Box.
4. Connect the Fan Controller Box to a USB header on your motherboard and to a SATA power connector from your power supply.
5. Connect the LCD display cable from the pump to the Fan Controller Box.

Step 6: Cable Management

1. Route all cables neatly to ensure proper airflow and a clean build.

OPERATING INSTRUCTIONS

The ASUS ROG Ryujin II 240 ARGB cooler is controlled and customized using the ASUS Armoury Crate software.

Installing Armoury Crate

1. Download and install the latest version of ASUS Armoury Crate from the official ASUS support website.

Display Customization

1. The 3.5" color LCD display can show real-time system statistics, personalized animations, or custom images.
2. Within Armoury Crate, navigate to the "Devices" section and select your ROG Ryujin II cooler.
3. Use the "Display" tab to choose between Hardware Monitor (for system stats) or Customized Slideshow (for animations/images).
4. You can select pre-loaded themes like "GALACTIC" or "CYBERPUNK", or upload your own custom images and animations.
5. Adjust the duration for image display in slideshow mode.

Fan and Pump Control

1. The "Fan Control" tab in Armoury Crate allows you to adjust fan speeds and pump performance profiles.
2. Select from predefined modes (e.g., Silent, Standard, Turbo) or create custom fan curves based on CPU temperature.

Aura Sync RGB Lighting

1. The "Aura Sync" tab enables synchronization of the cooler's ARGB lighting with other Aura Sync-compatible components in your system.

- Choose from a wide range of lighting effects and colors to personalize your build.

MAINTENANCE

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

Cleaning the Radiator and Fans

- Periodically clean dust from the radiator fins and fan blades using compressed air or a soft brush. Ensure fans are not spinning during cleaning.

Checking Tubing and Connections

- Inspect the tubing and connections for any signs of leaks, kinks, or damage. Address any issues immediately.

Thermal Paste

- If you notice a significant increase in CPU temperatures over time, consider reapplying thermal paste to the CPU and cold plate.

TROUBLESHOOTING

Common issues and their potential solutions:

Display Not Working / No Information

- Ensure the LCD display cable is securely connected to the pump and the Fan Controller Box.
- Verify that the Fan Controller Box is properly connected to a motherboard USB header and SATA power.
- Open ASUS Armoury Crate and navigate to the "Devices" section. Ensure the ROG Ryujin II is detected. If not, try reinstalling Armoury Crate.
- In Armoury Crate, select the "Display" tab and ensure "Hardware Monitor" or a "Customized Slideshow" is selected and applied.

Poor Cooling Performance

- Check fan connections to the Fan Controller Box and ensure they are spinning.
- Verify that the pump is running (you may feel a slight vibration or hear a faint hum).
- Ensure the cold plate is making proper contact with the CPU and that thermal paste is adequately applied.
- Check for dust buildup on the radiator fins and clean if necessary.
- In Armoury Crate, set fan and pump profiles to a higher performance mode (e.g., Turbo).

RGB Lighting Issues

- Ensure all ARGB cables are correctly connected to the Addressable Gen 2 RGB Headers on the Fan Controller Box.
- Check Aura Sync settings in Armoury Crate to ensure lighting effects are enabled and synchronized.

TECHNICAL SPECIFICATIONS

| Feature | Specification |
|--------------------------|--------------------------------------|
| Brand | ASUS |
| Model | ROG RYUJIN II 240 ARGB |
| Radiator Size | 240mm |
| Cooling Method | Fan, Water |
| Compatible Sockets | Intel LGA1700, LGA1200; AMD AM5, AM4 |
| Noise Level | 31 Decibels |
| Maximum Rotational Speed | 840 RPM |
| Air Flow Capacity | 19.41 Cubic Feet Per Minute |
| Voltage | 12 Volts |
| Wattage | 3 watts |
| Material | Aluminum |
| Product Dimensions | 15.27 x 11.14 x 5.59 inches |
| Item Weight | 2.2 pounds |

WARRANTY AND SUPPORT

ASUS provides a limited warranty for the ROG Ryujin II 240 ARGB Liquid CPU Cooler. Please refer to the official ASUS website or the warranty card included with your product for detailed terms and conditions.

Technical Support

For further assistance, technical support, or driver downloads, please visit the official ASUS support website: www.asus.com/support/

You can also contact ASUS customer service for direct assistance.