ID-COOLING FX240 LCD

ID-COOLING FX240 LCD 240mm AIO Liquid CPU Cooler User Manual

Model: FX240 LCD

Introduction

The ID-COOLING FX240 LCD is a premium 240mm All-In-One (AIO) liquid CPU cooler designed for high-performance computing systems. It features a 1.48-inch full-color LCD display and ARGB lighting, allowing for personalized visual effects and real-time system monitoring. Engineered with a 276x120x27 mm aluminum radiator and a 300W Thermal Design Power (TDP) rating, this cooler provides efficient heat dissipation for demanding builds. It supports a wide range of modern CPU sockets, including Intel LGA1851/1700/1200/115x and AMD AM5/AM4.
This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your ID-COOLING FX240 LCD CPU cooler to ensure optimal performance and longevity.

Package Contents

Before proceeding with installation, please verify that all components are present in the package:

- FX240 LCD AIO Liquid Cooler (Pump, Radiator, Tubing)
- 2x 120mm AS-120-ARGB-V2 Fans
- Intel Mounting Brackets (LGA1851/1700/1200/115x)
- AMD Mounting Brackets (AM5/AM4)
- Backplate for Intel Sockets
- Mounting Screws and Hardware
- Thermal Paste (FROST X45)
- Fan and ARGB Cables
- USB Cable for LCD Display
- User Manual

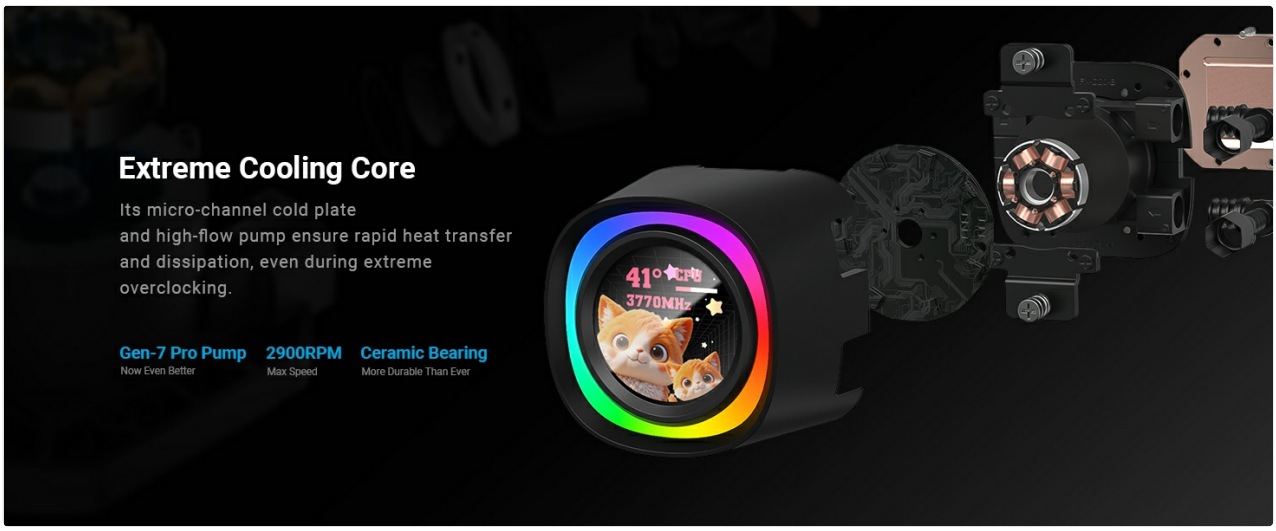

Image: Overview of the installation components for the ID-COOLING FX240 LCD cooler, showing various mounting brackets for Intel and AMD CPUs, screws, and a tube of thermal paste.

Setup and Installation

Follow these steps to install your ID-COOLING FX240 LCD CPU cooler. Ensure your system is powered off and unplugged before beginning installation.

1. Prepare the Motherboard

1. **For Intel Sockets (LGA1851/1700/1200/115x):** Attach the appropriate backplate to the rear of your motherboard. Insert the standoffs through the motherboard mounting holes from the front.
2. **For AMD Sockets (AM5/AM4):** Remove the existing plastic retention brackets from the motherboard, but retain the original backplate. Screw the AMD standoffs directly into the motherboard's backplate.

2. Install the Radiator and Fans

1. Mount the two 120mm fans to the radiator using the provided long screws. Ensure the fan airflow direction is appropriate for your case (typically exhausting air out of the case or drawing cool air in).
2. Install the radiator assembly into an available 240mm fan mount location in your PC case (e.g., top, front). Secure it with the short screws.

Image: The ID-COOLING FX240 LCD cooler fully installed inside a computer case, showcasing the radiator with two RGB fans and the pump head mounted on the CPU socket.

3. Apply Thermal Paste

If the thermal paste is not pre-applied to the cold plate, apply a small, pea-sized amount of the included FROST X45 thermal paste to the center of your CPU's Integrated Heat Spreader (IHS). Do not spread it manually; the pressure from the cold plate will distribute it evenly.

Image: A detailed view of the ID-COOLING FX240 LCD pump head's internal components, highlighting the micro-channel cold plate and a tube of FROST X45 thermal paste, illustrating its application.

4. Mount the Pump Head

1. Carefully place the pump head onto the CPU, aligning the mounting holes with the standoffs.
2. Secure the pump head with the appropriate thumb screws or nuts, tightening them in a diagonal pattern until snug. Avoid over-tightening.

5. Connect Cables

1. Connect the pump's 3-pin or 4-pin power cable to the CPU_FAN or AIO_PUMP header on your motherboard.
2. Connect the fan power cables to available fan headers on your motherboard or a fan controller.
3. Connect the ARGB cables from the fans and pump to an ARGB header (5V 3-pin) on your motherboard or an ARGB controller.
4. Connect the USB cable from the pump head to an available internal USB 2.0 header on your motherboard. This is essential for the LCD display functionality.

Operating Instructions

The ID-COOLING FX240 LCD cooler offers both efficient cooling and customizable visual feedback through its integrated LCD screen.

LCD Display Customization

The 1.48-inch full-color LCD display can show system statistics, custom images, GIFs, or animations. To customize the display, you will need to install the ID-COOLING software.

- **Software Installation:** Download the latest ID-COOLING software from the official ID-COOLING website. Follow the on-screen instructions for installation.
- **Real-time Performance Metrics:** The software allows you to display CPU frequency, CPU/GPU usage, temperatures, pump speed, and fan speed in real-time.
- **Custom Images & GIFs:** Upload your own images or animated GIFs to personalize the display.
- **Video Playback:** The LCD supports MP4 video playback, allowing you to display short video clips.

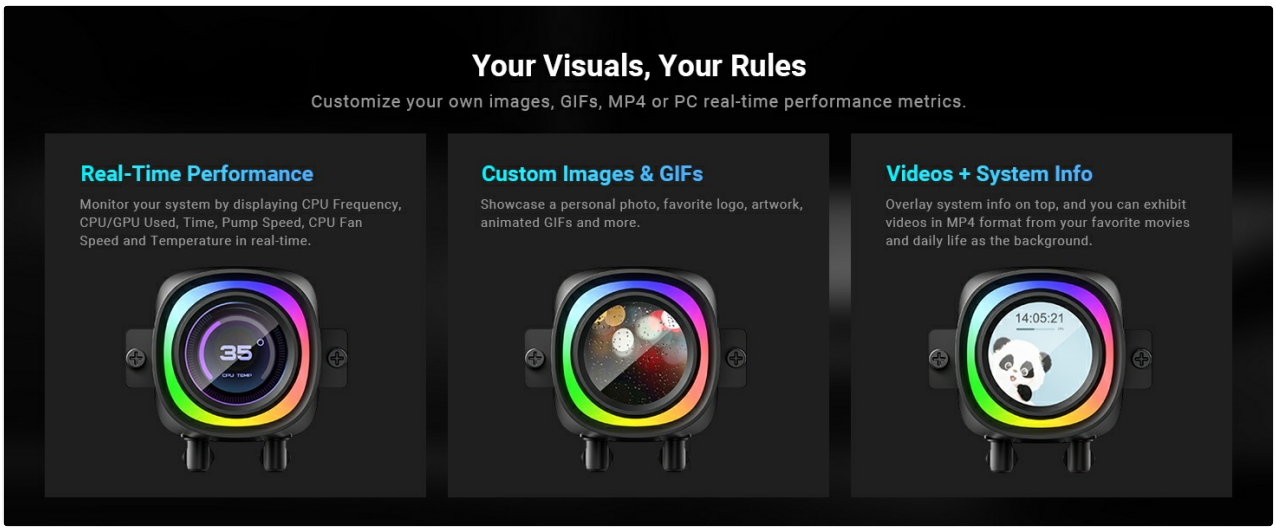

Image: The ID-COOLING FX240 LCD pump head displaying system performance metrics, alongside a computer monitor showing the ID-COOLING software interface for customization.

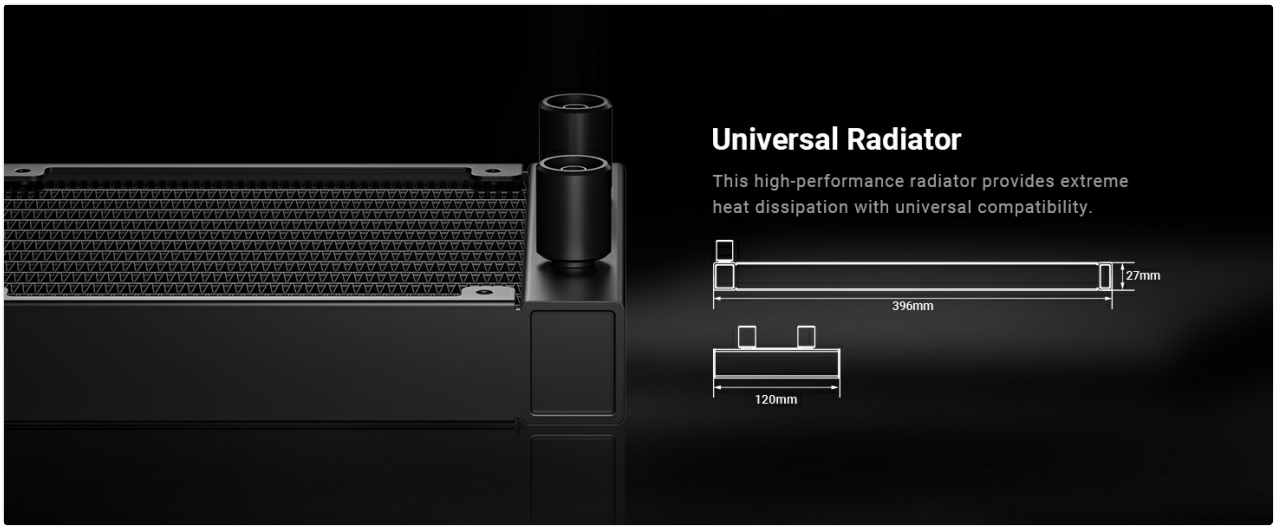

Image: A visual representation of the customization capabilities of the LCD display, showing examples of real-time performance data, custom images/GIFs, and videos with overlaid system information.

ARGB Lighting Control

The ARGB lighting ring on the pump head and the ARGB fans can be controlled via your motherboard's ARGB software (if connected to an ARGB header) or through the ID-COOLING software. Refer to your motherboard manual for specific ARGB software instructions.

Fan and Pump Speed Control

Fan and pump speeds are typically controlled via your motherboard's BIOS/UEFI settings or dedicated motherboard software. For optimal cooling and noise balance, it is recommended to set up a custom fan curve based on CPU temperature.

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 fan blades using compressed air. Ensure the fans are not spinning during cleaning to prevent damage.
- **Tubing Inspection:** Occasionally inspect the tubing for any signs of kinks, leaks, or damage. While AIOs are sealed systems, visual checks are good practice.

- **Cold Plate Check:** If you ever remove the pump head, inspect the cold plate for any debris or corrosion. Reapply thermal paste if reinstalling.
- **Software Updates:** Keep the ID-COOLING software updated to ensure compatibility and access to new features or bug fixes for the LCD display.

Troubleshooting

If you encounter issues with your ID-COOLING FX240 LCD cooler, refer to the following common problems and solutions:

No Power to Pump or Fans:

- Check all power connections to the motherboard (CPU_FAN, AIO_PUMP, fan headers).
- Ensure the power supply is functioning correctly.
- Verify fan and pump cables are securely seated.

LCD Display Not Working or Blank:

- Ensure the USB 2.0 cable from the pump head is securely connected to an internal USB 2.0 header on your motherboard.
- Verify the ID-COOLING software is installed and running. Some users report the LCD requires the software to be active to display content.
- Check for any software updates or reinstallation of the ID-COOLING software.
- Confirm the display settings within the ID-COOLING software are configured correctly.

Poor Cooling Performance / High CPU Temperatures:

- Check if the pump is running (you might feel a slight vibration or hear a faint hum).
- Ensure fans are spinning and oriented correctly for optimal airflow.
- Verify the cold plate is making full contact with the CPU. Re-seat the pump head if necessary, ensuring even pressure.
- Confirm thermal paste was applied correctly and is not dried out.
- Check for any blockages in the radiator fins.
- Monitor pump and fan speeds in your motherboard's BIOS/UEFI or monitoring software.

Excessive Noise:

- **Fan Noise:** Adjust fan curves in BIOS/UEFI or software to reduce speeds at lower temperatures. Check for loose fan screws or cables interfering with fan blades.
- **Pump Noise:** Ensure the pump is mounted correctly. Some gurgling noise might occur initially as air bubbles clear; this should subside. If persistent, ensure the radiator is mounted higher than the pump head if possible, to allow air to collect in the radiator.

Specifications

Feature	Specification
Model Number	FX240 LCD
Radiator Dimensions	276 x 120 x 27 mm (Aluminum)

Feature	Specification
Fan Dimensions	120 x 120 x 25 mm
Fan Speed	300-2000 RPM (±10%)
Max. Air Flow	58 CFM
Max. Static Pressure	1.94 mmH_2O
Noise Level	~27 dB(A) Max.
Pump Speed	2900 RPM (±10%)
Pump Bearing	Ceramic Bearing
TDP Rating	300 W
LCD Display	1.48 inch, 240x240 px, Full-Color (18-bit / 262K colors)
Compatible Sockets	Intel LGA1851/1700/1200/115x, AMD AM5/AM4
Material	Aluminum, Copper
Power Connector	4-Pin (Pump), 7-Pin (Fans)

Warranty

ID-COOLING products are covered by a manufacturer's warranty against defects in materials and workmanship. The specific warranty period may vary by region and product. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, please visit the official ID-COOLING website or contact their customer support.

Support

For technical assistance, troubleshooting beyond this manual, or general inquiries, please visit the official ID-COOLING website for support resources, FAQs, and contact information. You can typically find drivers, software, and further documentation on their support pages.
Official Website: www.idcooling.com