



Manuals.plus /

› Thermaltake /

› Thermaltake TH360 V2 Ultra ARGB Sync/AIO Liquid Cooler/ARGB Fan 120 \* 3/PWM 500~1500rpm/Water Block 2.1" LCD/Hydragea Blue, CL-W420-PL12BU-A LCD 360mm Hydragea Blue

## Thermaltake CLW420PL12BUA

# Thermaltake TH360 V2 Ultra ARGB Sync All-in-One Liquid Cooler User Manual

Model: CL-W420-PL12BU-A | Brand: Thermaltake

## 1. INTRODUCTION

---

The Thermaltake TH360 V2 Ultra ARGB liquid cooler is an advanced all-in-one cooling solution designed to provide exceptional thermal performance and stunning visual effects for your PC. Featuring a new industrial cap and a high-resolution 2.1-inch LCD display, this cooler allows for extensive customization, from displaying real-time system information to personalized images and videos.

Equipped with three high-performance CT120 ARGB fans and a slim 27mm radiator with a thickened 20mm copper chamber, the TH360 V2 Ultra ARGB ensures efficient heat dissipation for demanding systems. It is suitable for medium to large chassis that can accommodate 360mm AIO liquid coolers.

## 2. FEATURES

---

- **2.1-inch LCD Display:** High-resolution 480x480 (RGB) px display on the water block for showing 16.8M color videos, photos, real-time information, local time, and weather.
- **Customizable Visuals:** Supports JPG, GIF, PNG, MP4, MOV, and AVI files for personalized display content.
- **CT120 ARGB Fans:** Three 120mm ARGB fans (PWM 500~2000 R.P.M) providing 57.05 CFM airflow and 2.23mm-H<sub>2</sub>O static pressure at 25.8dB-A noise level.
- **Efficient Cooling:** 27mm slim aluminum radiator with a thickened 20mm copper chamber for excellent heat conductivity.
- **Broad Compatibility:** Supports Intel LGA 2066/2011-3/2011/1700/1200/1156/1155/1151/1150 and AMD AM5/AM4/AM3+/AM3/AM2+/AM2/FM2/FM1 sockets.
- **Motherboard RGB Software Sync:** Designed to synchronize with ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, and ASRock Polychrome.
- **TT RGB Plus 2.0 Software:** Required for full customization and control of the Ultra Series products.

## 3. COMPONENTS CHECKLIST

---

Before beginning installation, please ensure all components are present and undamaged.



Main unit of the Thermaltake TH360 V2 Ultra ARGB Liquid Cooler, showing the radiator, tubing, and water block with LCD display.

- 1x Radiator (396 x 120 x 27 mm, Aluminum)
- 1x Water Block with 2.1" TFT-LCD Display (Copper base)
- 3x CT120 ARGB Fans (120 x 120 x 25 mm)
- Mounting Brackets for Intel (LGA 2066/2011-3/2011/1700/1200/1156/1155/1151/1150)
- Mounting Brackets for AMD (AM5/AM4/AM3+/AM3/AM2+/AM2/FM2/FM1)
- Thermal Paste
- Micro USB to USB (9PIN) Cable for LCD Display
- Screws and other installation hardware
- User Manual / Instruction Sheet

## 4. SETUP AND INSTALLATION

---

## 4.1 Pre-Installation Steps

1. **Prepare your Motherboard:** Identify the correct mounting brackets for your CPU socket (Intel or AMD).
2. **Apply Thermal Paste:** Apply a thin, even layer of thermal paste to the CPU's integrated heat spreader (IHS). The cooler may come with pre-applied paste.
3. **Attach Fans to Radiator:** Secure the three CT120 ARGB fans to the radiator using the provided screws. Ensure correct airflow direction (typically pushing air through the radiator).

## 4.2 Mounting the Cooler

1. **Install Radiator:** Mount the radiator and fan assembly to your PC case in a suitable location (e.g., top, front, or side, depending on case compatibility).
2. **Secure Water Block:** Carefully place the water block onto the CPU, aligning it with the mounting holes. Secure it using the appropriate screws and backplate for your socket type.
3. **Connect Cables:**
  - Connect the pump's power cable to the CPU\_FAN or AIO\_PUMP header on your motherboard.
  - Connect the ARGB fan cables to the motherboard's ARGB headers or a compatible ARGB controller.
  - Connect the Micro USB cable from the water block to a USB 2.0 header (9-pin) on your motherboard for LCD display functionality.
4. **Cable Management:** Route cables neatly to ensure proper airflow and aesthetics.



Image: Thermaltake TH360 V2 Ultra ARGB Liquid Cooler installed in a PC case, showcasing the water block and fans.

## 5. OPERATING INSTRUCTIONS

---

### 5.1 Software Installation

To fully utilize the LCD display and ARGB lighting features, install the **TT RGB Plus 2.0 Software**. This software is compatible with Windows 10/11.

- Download the latest version of TT RGB Plus 2.0 from the official Thermaltake website.
- Follow the on-screen instructions to complete the installation.

### 5.2 Customizing the LCD Display

The 2.1-inch LCD display is highly customizable:

- **Real-time Information:** Monitor CPU temperature, liquid temperature, fan speed, and other system metrics.
- **Personalized Content:** Upload JPG, GIF, PNG images, or MP4, MOV, AVI video files to display on the screen.

- **Time and Weather:** Display local time and weather information.

Use the TT RGB Plus 2.0 software to manage display content, adjust brightness, and set up start-up/standby screens.



The image shows a screenshot of the TT RGB Plus 2.0 software interface. The interface is dark-themed and features a sidebar with navigation options: GENERAL, NOTIFICATIONS, ACCOUNT, AUTO-UPDATE, Ultra 2.1 LCD (selected), and ABOUT. The main content area is divided into sections for 'SET AS BOOT ANIMATION' and 'STANDBY SCREEN'. The 'SET AS BOOT ANIMATION' section includes an 'UPLOAD' button for a GIF file (Default.gif, Max Size: 5MB) and a 'DEFAULT' button. The 'STANDBY SCREEN' section includes an 'UPLOAD' button for an image file (UI.png, Max Size: 5MB), a 'TEXT COLOR' section with a color wheel and a 'TEXT COLOR' toggle switch (currently ON), and a 'DEFAULT' button. A 'SCREEN BRIGHTNESS' slider and a 'LIGHT' toggle are also visible at the bottom of the software window. In the foreground, a blue Thermaltake Ultra 2.1 LCD monitor is shown, displaying the time 15:30, the date 2022.1.21 FRI, the location London, and weather information including a cloud icon, 100% humidity, and a temperature of -2°C. The monitor has a '25' label on its side.

**FULLY CUSTOMIZABLE WITH TT RGB PLUS 2.0**

Monitor frequency and real-time temperature directly from the 2.1” LCD display, or customize start-up and standby screens by uploading images or GIFs to add extra flair with the TT RGB Plus 2.0 software.

Image: Screenshot of the TT RGB Plus 2.0 software interface for customizing the LCD display.

### 5.3 ARGB Lighting Control

Control the ARGB lighting of the fans and water block through the TT RGB Plus 2.0 software or synchronize with your motherboard's RGB software (ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome).

## 6. MAINTENANCE

- **Dust Removal:** Regularly clean dust from the radiator fins and fan blades using compressed air or a soft brush to maintain optimal cooling performance.
- **Check Tubing:** Periodically inspect the tubing for any signs of kinks, leaks, or damage.
- **Software Updates:** Keep the TT RGB Plus 2.0 software updated to ensure compatibility and access to new features.

## 7. TROUBLESHOOTING

---

- **No Display on LCD:** Ensure the Micro USB cable is securely connected to both the water block and the motherboard's USB 2.0 header. Verify that the TT RGB Plus 2.0 software is installed and running.
- **Poor Cooling Performance:**
  - Check fan connections and ensure they are spinning.
  - Verify the water block is securely mounted to the CPU and thermal paste is properly applied.
  - Clean any dust buildup on the radiator fins.
  - Ensure adequate airflow within your PC case.
- **RGB Lighting Issues:** Check ARGB cable connections. Ensure the TT RGB Plus 2.0 software or motherboard RGB software is correctly configured and not conflicting with other RGB applications.

## 8. SPECIFICATIONS

---

Component	Specification
P/N	CL-W420-PL12BU-A
Pump Motor Speed	PWM 1500~3300 RPM
Pump Rated Voltage	12V
Pump Power Input	5.16W
CPU Display Type	2.1" TFT-LCD
CPU Display Resolution	480x480 (RGB) px
Display Interface	Micro USB to USB (9PIN)
System Compatibility (Display)	Windows 10 / 11
Water Block Material	Copper
Fan Dimension	120 x 120 x 25 mm
Fan Speed	PWM 500~2000 R.P.M
Fan Air Flow	57.05 CFM (one fan)
Fan Static Pressure	2.23mm-H2O (one fan)
Fan Noise Level	25.8dB-A
Tube Length	460mm
Tube Material	Rubber
Radiator Dimension	396 x 120 x 27 mm
Radiator Material	Aluminum
CPU Socket Compatibility	Intel LGA 2066/2011-3/2011/1700/1200/1156/1155/1151/1150; AMD AM5/AM4/AM3+/AM3/AM2+/AM2/FM2/FM1

## 9. WARRANTY AND SUPPORT

---

Thermaltake products are manufactured to the highest quality standards. For warranty information, technical support, or service inquiries, please visit the official Thermaltake website or contact their customer service department. Keep your proof of purchase for warranty claims.

### **Online Resources:**

- Visit the Thermaltake Store on Amazon
- Thermaltake Official Website