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› ASUS Prime MR120 ARGB Fan Instruction Manual

Asus PRIME MR120 FAN ARGB BLACK

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Model: PRIME MR120 FAN ARGB BLACK

1. INTRODUCTION AND OVERVIEW

The ASUS Prime MR120 ARGB Fan is designed to provide efficient and quiet cooling for your computer system. Featuring an extra-thick 28mm frame, 20 Addressable RGB (ARGB) LEDs with dual-sided lighting, and Pulse Width Modulation (PWM) control, this fan offers both performance and aesthetic customization. It is compatible with ASUS Aura Sync for synchronized lighting effects across various hardware components.



Image: Overview of ASUS Prime MR120 ARGB Fan features.

2. SAFETY INFORMATION

Please read and follow these safety guidelines to prevent damage to the product or injury:

- Ensure your computer system is powered off and unplugged from the wall outlet before installation or maintenance.
- Handle components with care to avoid electrostatic discharge. Consider using an anti-static wrist

strap.

- Do not attempt to disassemble the fan. There are no user-serviceable parts inside.
- Keep the fan away from liquids and excessive moisture.
- Ensure proper cable management to prevent interference with moving fan blades.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- 1 x ASUS Prime MR120 ARGB Fan (Black)
- 4 x Mounting Screws
- 1 x PWM Fan Cable (pre-attached or separate)
- 1 x ARGB Cable (pre-attached or separate)

4. SETUP AND INSTALLATION

Follow these steps to install your ASUS Prime MR120 ARGB Fan:

1. **Prepare Your System:** Power off your computer and unplug it from the power source. Open your PC case to access the fan mounting locations.
2. **Mount the Fan:** Position the fan in your desired location (e.g., front, rear, top of the case, or on a radiator). Ensure the airflow direction is correct for your cooling configuration. Secure the fan using the provided mounting screws.
3. **Connect PWM Cable:** Locate an available 4-pin fan header on your motherboard. Connect the fan's 4-pin PWM cable to this header. This allows your motherboard to control the fan speed based on system temperature.
4. **Connect ARGB Cable:** Locate an available 3-pin 5V Addressable RGB header on your motherboard. Connect the fan's ARGB cable to this header. **Note:** Do not connect this to a 4-pin 12V RGB header, as this can damage the LEDs.
5. **Cable Management:** Route the cables neatly to avoid interference and improve airflow within your case.
6. **Close Case and Power On:** Close your PC case, plug in the power, and power on your system.



Image: The 28mm extra-thick fan frame for enhanced cooling performance.



Image: Illustration of the 20 ARGB LEDs for system illumination.

5. OPERATING INSTRUCTIONS

The ASUS Prime MR120 ARGB Fan operates with two primary functions: cooling and lighting.

- **Cooling Performance:** The fan's speed is controlled via the 4-pin PWM connection to your motherboard. Most motherboards allow you to configure fan curves in the BIOS/UEFI settings or through software utilities. This enables the fan to adjust its speed (up to 1600 RPM) automatically based on CPU or system temperatures, providing optimal cooling while minimizing noise (as low as 21 dB(A)).
- **ARGB Lighting:** The 20 ARGB LEDs and dual-sided frame lighting are controlled through your motherboard's 3-pin 5V ARGB header. Utilize ASUS Aura Sync software or your motherboard's proprietary RGB control software to customize lighting colors, effects, and synchronization with other Aura Sync compatible devices.

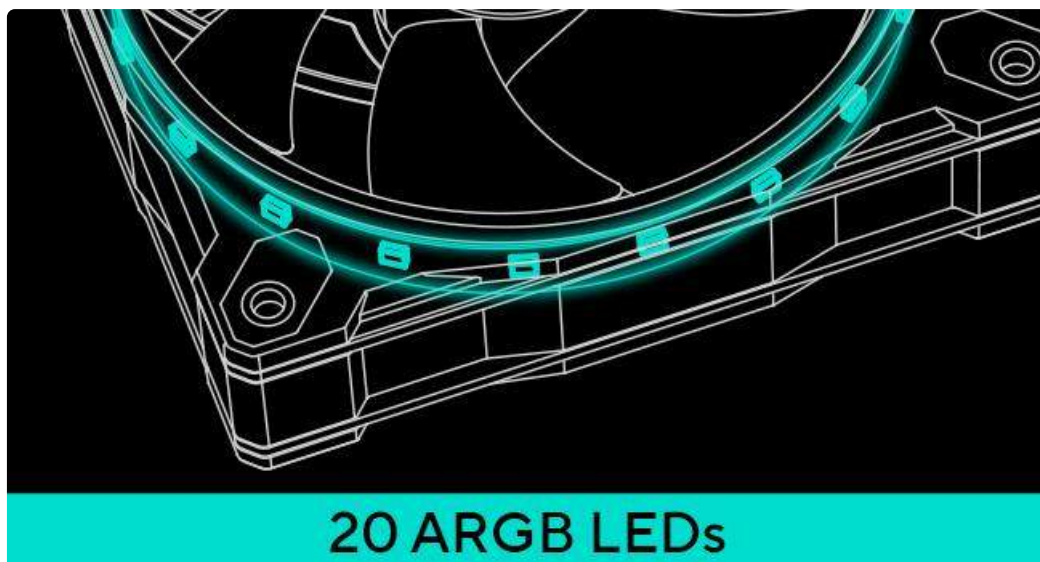


Image: Dual-sided frame lighting for consistent aesthetics.

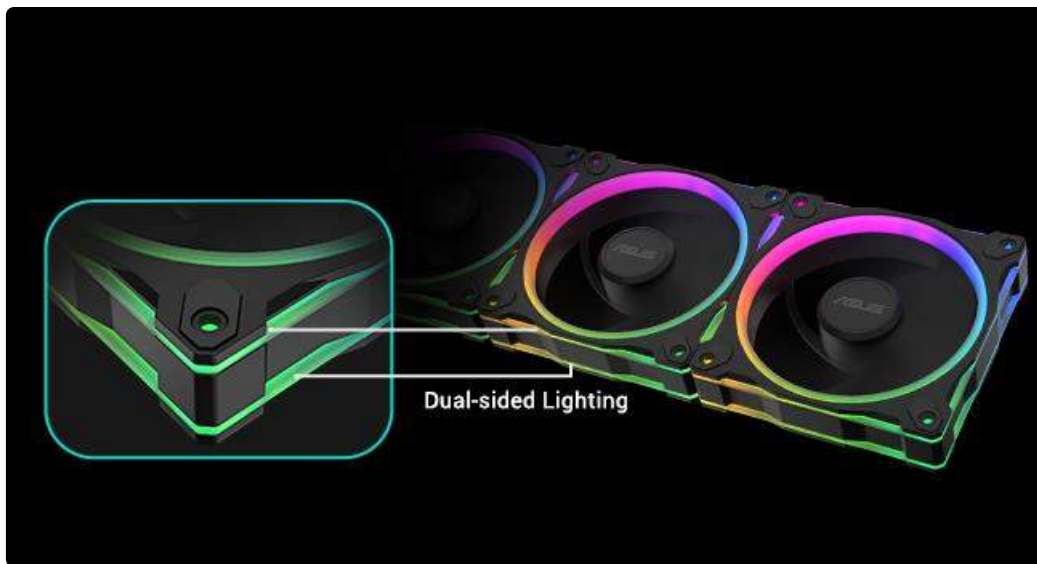


Image: Cooling performance metrics of the fan.

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your fan:

- **Cleaning:** Periodically, power off your computer and unplug it. Use compressed air to gently remove dust buildup from the fan blades and frame. Avoid using liquid cleaners directly on the fan.
- **Inspection:** Check fan cables for any signs of wear or damage. Ensure the fan is securely mounted and that no cables are obstructing its rotation.

7. TROUBLESHOOTING

If you encounter issues with your ASUS Prime MR120 ARGB Fan, refer to the following common problems and solutions:

- **Fan Not Spinning:**
 - Ensure the 4-pin PWM cable is securely connected to a functional fan header on your motherboard.
 - Check your motherboard's BIOS/UEFI settings to ensure the fan header is enabled and configured correctly.
 - Verify that your power supply is providing adequate power to your system.
- **ARGB Lights Not Working or Incorrect Colors:**
 - Confirm the 3-pin ARGB cable is correctly connected to a 5V Addressable RGB header on your motherboard, not a 12V RGB header.
 - Ensure ASUS Aura Sync software or your motherboard's RGB control utility is installed and configured.
 - Check for any loose connections in the ARGB chain if multiple devices are connected.
- **Excessive Noise:**
 - Verify that the fan is securely mounted and not vibrating against the case.
 - Ensure no cables are touching the fan blades.
 - Adjust the fan curve in your motherboard's BIOS/UEFI or software to reduce fan speed at lower

temperatures.

- **PWM Daisy-Chaining:** Note that while ARGB connections can often be daisy-chained, PWM fan connections typically cannot be daisy-chained without a dedicated fan hub or splitter cable if you have more fans than available motherboard headers.

8. SPECIFICATIONS

Feature	Specification
Model Number	PRIME MR120 FAN ARGB BLACK
Dimensions (L x W x H)	120 x 120 x 28 mm
Weight	179 g
Fan Speed	Up to 1600 RPM
Airflow Capacity	58 CFM (Cubic Feet Per Minute)
Noise Level	21 dB(A)
Static Pressure	1.7 mm H ₂ O
Power Connector	4-Pin PWM
ARGB Connector	3-Pin 5V Addressable RGB
Voltage	12 Volts
Wattage	2.16 Watts
Material	Aluminum, Plastic
Compatible Devices	Desktop Computers
Country of Origin	China
GTIN (UPC)	199291043954



Image: Dual colors and orientation options for the fan.

9. WARRANTY AND SUPPORT

Warranty Information: The ASUS Prime MR120 ARGB Fan comes with a **2-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use. Please retain your proof of purchase for warranty claims.

Technical Support: For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please visit the official ASUS support website or contact ASUS customer service. You can find contact information and support resources at www.asus.com/support/.