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> FILWY Power Train Prism 8RS 12CM ARGB PWM Fan Instruction Manual

## FILWY Power Train Prism 8RS 12CM ARGB 4-Pin PWM Fan

# FILWY Power Train Prism 8RS 12CM ARGB PWM Fan

## INSTRUCTION MANUAL

### 1. Introduction

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This manual provides detailed instructions for the installation, operation, and maintenance of your FILWY Power Train Prism 8RS 12CM ARGB 4-Pin PWM Fan. This fan is designed to provide efficient cooling and customizable lighting for computer systems. Please read this manual thoroughly before installation and use to ensure proper function and safety.

### 2. Safety Information

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- Always disconnect power from your computer before installing or removing any components.
- Handle the fan by its frame to avoid damaging the blades or wiring.
- Ensure all cables are properly connected and secured to prevent short circuits or damage.
- Keep the fan away from liquids and excessive dust.
- Do not attempt to modify the fan or its components. Unauthorized modifications may void the warranty and pose safety risks.

### 3. Package Contents

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Verify that all items are present in your package:

- Power Train Prism 8RS 12CM ARGB 4-Pin PWM Fan
- Mounting Screws
- User Manual (this document)

*Note: The specific quantity of fans and accessories may vary based on the product bundle purchased.*

## 4. Setup and Installation

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Follow these steps to install the Power Train Prism 8RS fan into your computer system.

### 4.1. Preparation

1. Turn off your computer and disconnect it from the power outlet.
2. Open your computer case to access the desired fan mounting location.

### 4.2. Fan Mounting

Position the fan in the desired location (e.g., CPU cooler, radiator, PC case intake/exhaust). Ensure the airflow direction is correct for your cooling configuration.



Image: The FILWY Power Train Prism 8RS fan, showing its 12cm frame, fan blades, and attached PWM and ARGB cables. The fan is white with a central hub and mounting holes at the corners.

3. Align the fan's mounting holes with the corresponding holes on your case, radiator, or CPU cooler.
4. Secure the fan using the provided mounting screws. Do not overtighten.

### 4.3. Cable Connections

The Power Train Prism 8RS fan has two main cables:

- **4-Pin PWM Cable:** Connect this cable to an available 4-pin fan header on your motherboard (e.g., CPU\_FAN, SYS\_FAN). This allows for speed control based on system temperature.
- **ARGB Cable:** Connect this 3-pin 5V ARGB cable to a compatible 5V ARGB header on your motherboard or an ARGB controller. Ensure the arrow on the connector aligns with the +5V pin on the header to prevent damage. *Do not connect to a 12V RGB header.*

Once all connections are made, close your computer case and reconnect the power.

## 5. Operating Instructions

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### 5.1. Fan Speed Control (PWM)

The 4-pin PWM connection allows your motherboard to dynamically adjust the fan speed (800-1800 RPM) based on your system's thermal load. This optimizes cooling performance while minimizing noise.

- Access your motherboard's BIOS/UEFI settings or use compatible software provided by your motherboard manufacturer to configure fan curves and control profiles.
- You can set custom fan speeds for different temperature thresholds or choose pre-defined modes like 'Silent', 'Standard', or 'Performance'.

### 5.2. ARGB Lighting Control

The Addressable RGB (ARGB) lighting allows for customizable illumination effects. Control is typically managed through your motherboard's ARGB software or a dedicated ARGB controller.

- Install the ARGB control software provided by your motherboard manufacturer (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion, ASRock Polychrome Sync).
- Use the software to select various lighting modes, colors, and effects. You can synchronize the fan's lighting with other compatible ARGB components in your system.

## 6. Maintenance

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

### 6.1. Cleaning

- Periodically (e.g., every 3-6 months), turn off your computer and disconnect power.
- Use compressed air to gently blow dust off the fan blades and frame. Hold the fan blades to prevent them from spinning rapidly during cleaning, which can damage the bearings.
- For stubborn dust, use a soft, dry cloth or a cotton swab. Do not use liquid cleaners.

### 6.2. Inspection

- Check for any loose cables or connections.
- Ensure the fan is securely mounted and not vibrating excessively.
- Listen for unusual noises during operation, which could indicate a bearing issue.

## 7. Troubleshooting

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If you encounter issues with your Power Train Prism 8RS fan, refer to the following common problems and solutions:

**Problem: Fan is not spinning.**

**Solution:**

- Ensure the 4-pin PWM cable is securely connected to a functional fan header on the motherboard.
- Check your motherboard's BIOS/UEFI settings to ensure the fan header is enabled and configured correctly.
- Verify that the power supply is functioning correctly.

**Problem: ARGB lighting is not working or displaying incorrect colors.****Solution:**

- Ensure the 3-pin 5V ARGB cable is correctly connected to a 5V ARGB header (not 12V RGB). The arrow on the connector should align with the +5V pin.
- Verify that your motherboard's ARGB software is installed and updated.
- Check for conflicts with other RGB software or controllers.
- Ensure the ARGB header is enabled in your motherboard's BIOS/UEFI.

**Problem: Fan is making unusual noise.****Solution:**

- Check for any cables or obstructions hitting the fan blades.
- Ensure the fan is securely mounted and not vibrating against the case.
- Clean any dust buildup on the fan blades.

## 8. Specifications

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<b>Model</b>	Power Train Prism 8RS
<b>Fan Size</b>	120mm x 120mm x 25mm (12CM)
<b>Fan Type</b>	PWM Controlled Fan
<b>Connector</b>	4-Pin PWM, 3-Pin 5V ARGB
<b>Operating Voltage</b>	12V DC
<b>Fan Speed</b>	800 - 1800 RPM ( $\pm 10\%$ )
<b>Airflow</b>	56.62 CFM (Cubic Feet Per Minute)
<b>Noise Level</b>	Not specified (optimized for low operational noise)
<b>Bearing Type</b>	Not specified
<b>Lighting</b>	Addressable RGB (ARGB)

## 9. Warranty and Support

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FILWY products are manufactured to high-quality standards. For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official FILWY website. Keep your proof of purchase for warranty claims.

If you require further assistance, please contact FILWY customer support through the channels listed on our website.

