

## RiseUP Assioma PRO RS-2

# Favero Assioma PRO RS-2 Dual-Sensing SPD-SL Road Cycling Power Meter Pedals User Manual

Model: Assioma PRO RS-2 | Brand: RiseUP

## 1. INTRODUCTION

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The Favero Assioma PRO RS-2 is a dual-sensing, pedal-based power meter designed for road cycling. This manual provides essential information for the proper installation, operation, and maintenance of your Assioma PRO RS-2 pedals, ensuring accurate and consistent power data for your training and riding. The pedals are fully compatible with SPD-SL cleats and feature Bluetooth and ANT+ connectivity for seamless integration with various bike computers, GPS units, and smartphones.

## 2. PACKAGE CONTENTS

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Verify that all items listed below are present in your package:

- 1x Favero Assioma PRO RS-2 Power-meter Cycling Pedals (MPN 773-20-02)
- 1x Pair of Assioma PRO RS | Shimano compatible SPD-SL cleats (6 Degree)
- 2x Magnetic Charging Connectors
- 1x USB Type-C 2-way Charging Cable
- 4x Washers
- 1x Greasing Tools Kit
- 1x RiseUP Cleaning Cloth



Image: All components included in the Favero Assioma PRO RS-2 power meter pedal package.

### 3. SETUP AND INSTALLATION

The Assioma PRO RS-2 pedals are designed for easy installation and can be swapped between bikes without special tools, similar to standard pedals.

#### 3.1 Pedal Installation

1. Ensure your crank arms are clean and free of debris.
2. Apply a thin layer of grease to the pedal threads.
3. Thread the pedals into the crank arms. The left pedal has a left-hand thread (counter-clockwise to tighten), and the right pedal has a right-hand thread (clockwise to tighten).
4. Tighten the pedals to the manufacturer's recommended torque using a pedal wrench. Refer to your crank arm manufacturer's specifications for precise torque values.
5. If necessary, use the provided washers to ensure proper clearance between the pedal body and the crank arm.



Image: Demonstrating the installation of the Assioma PRO RS-2 pedal onto a bicycle crank arm.

### **3.2 Cleat Compatibility**

The Assioma PRO RS-2 pedals are 100% SPD-SL compatible. You can use the cleats provided in the box or original Shimano SM-SH10, SM-SH11, or SM-SH12 cleats.



Image: Close-up view of the Favero Assioma PRO RS-2 pedals.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Pairing with Devices

The Assioma PRO RS-2 pedals can be paired with your bike computer, cycling GPS unit, or smartphone via Bluetooth and ANT+ connectivity.

1. Ensure the pedals are awake (e.g., by rotating them a few times).
2. On your receiving device (bike computer, smartphone), navigate to the sensor pairing menu.
3. Select to add a new power meter sensor. The Assioma PRO RS-2 should appear in the list of available devices.
4. Follow the on-screen prompts to complete the pairing process.

### 4.2 Calibration

It is recommended to perform a zero-offset calibration before each ride for optimal accuracy. Refer to your bike computer or smartphone application's instructions for performing a zero-offset calibration.

## 5. ADVANCED FEATURES AND METRICS

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The Assioma PRO RS-2 utilizes advanced technology to provide comprehensive cycling data.

### 5.1 IAV Power System and Gyroscope

The special IAV Power System integrates a three-axis gyroscope to accurately measure the instantaneous

angular velocity of the pedal stroke. This ensures highly accurate power calculations, delivering a  $\pm 1\%$  accuracy in all conditions, not just laboratory settings.

## 5.2 Automatic Temperature Compensation (ATC)

ATC ensures consistent and stable watt measurements across a wide temperature range, from  $-10^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , adapting to actual on-road conditions.

## 5.3 Advanced Cycling Metrics

The pedals provide a range of advanced metrics to help analyze your pedaling efficiency and performance:

- **Power:** Total power output in watts.
- **Cadence:** Pedaling revolutions per minute (RPM).
- **L/R Balance:** Power distribution between left and right legs.
- **Platform Center Offset (PCO):** Indicates where force is applied on the pedal platform.
- **Power Phase (PP):** Shows the angle range where power is generated during a pedal stroke.
- **Pedal Smoothness (PS):** Measures the uniformity of force application throughout the pedal stroke.
- **Torque Effectiveness (TE):** Quantifies the percentage of positive torque applied to the crank.
- **Rider Position:** Detects if you are seated or standing.



Image: Visual representation of advanced cycling metrics displayed during a ride.



Image: Internal structure of the Assioma pedal and a smartphone interface displaying detailed power metrics.

## 6. CHARGING AND BATTERY

The Assioma PRO RS-2 pedals feature integrated rechargeable batteries designed for long operational life.

- A single full charge provides at least 60 hours of operational use.
- Charging is performed via a magnetic system, which helps prevent damage from accidental tugging of the charging cable.
- The pedals can be recharged simultaneously using the provided USB Type-C 2-way charging cable and magnetic connectors.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Assioma PRO RS-2 pedals.

- **Cleaning:** Use the provided RiseUP cleaning cloth or a soft, damp cloth to wipe down the pedals

after each ride, especially if exposed to dirt or moisture. Avoid harsh chemicals.

- **Spindle Care:** The electronic components and battery are sealed within the spindle. Do not attempt to open the spindle.
- **Modular Design:** The modular design allows for swapping pedal bodies between road and MTB setups (PRO MX and PRO RS). Refer to specific instructions for pedal body replacement if applicable.
- **Greasing:** Use the greasing tools kit for any necessary lubrication of moving parts as per manufacturer guidelines.

## 8. SPECIFICATIONS

<b>Model</b>	Assioma PRO RS-2
<b>Accuracy</b>	±1%
<b>Connectivity</b>	ANT+, Bluetooth
<b>Battery Type</b>	Integrated Rechargeable (2 Nonstandard Battery batteries included)
<b>Battery Life</b>	60 Hours (minimum)
<b>Temperature Range</b>	-10°C to 55°C
<b>Cleat Compatibility</b>	SPD-SL (Shimano SM-SH10, SM-SH11, SM-SH12, or included Assioma PRO RS cleats)
<b>Item Weight</b>	2 Pounds (approx. 0.91 kg)
<b>Manufacturer</b>	RiseUP

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the manufacturer, RiseUP, or your authorized dealer. Keep your proof of purchase for warranty claims.

Refer to the official RiseUP website or product packaging for the most current contact information and detailed warranty terms.