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XOSS 377ce872-27fb-40ba-86ec-e8eba72f58aa

XOSS Vortex Cadence and Speed Sensor User Manual

Model: 377ce872-27fb-40ba-86ec-e8eba72f58aa

INTRODUCTION

The XOSS Vortex Cadence and Speed Sensor is a versatile device designed to provide accurate cycling data. It supports dual modes (speed and cadence) and connects wirelessly via ANT+ and Bluetooth 4.0, making it compatible with various cycling computers and applications. This manual provides instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance of your sensor.

VORTEX

SPEED & CADENCE SENSOR



THE POWER OF CYCLING

MAKE BETTER TO THE PRINCIPLES OF AERODYNAMIC DESIGN

Image: XOSS Vortex Cadence and Speed Sensor, highlighting its compact design.

WHAT'S IN THE BOX

Your XOSS Vortex package includes:

- XOSS Vortex Sensor(s)
- Mounting accessories (rubber bands, silicone pads)
- CR2032 Coin Cell Battery (pre-installed or included)

FEATURES

- **Dual Mode Operation:** Functions as either a speed sensor or a cadence sensor.
- **Wireless Connectivity:** Supports ANT+ and Bluetooth 4.0 for broad compatibility.
- **IPX7 Waterproof:** Designed to withstand water immersion up to 1 meter for 30 minutes.
- **Long Battery Life:** Up to 300 hours of continuous operation with a single CR2032 battery.
- **XOSS App Support:** Connects to the XOSS app for mode switching, data tracking, and analysis.
- **Aerodynamic Design:** Spiral trapezoid shape for optimal fit and reduced air resistance.



Image: XOSS Vortex sensor showing compatibility with Bluetooth and ANT+ devices, including XOSS, Zwift, G+ Bike Garmin, and sports watches.

SETUP

1. Battery Installation

The sensor uses a CR2032 coin cell battery. If not pre-installed, open the battery compartment by twisting the back cover counter-clockwise, insert the battery with the positive (+) side facing up, and close the cover by twisting clockwise until secure.

POWER-EFFICIENT DESIGN

- ECO smart design automatically switch between work & sleep mode
- 3min unmoved, switch to sleep mode
- Any movement or vibration, switch back to work



**300 Hours
Battery Life**

* Coin Cell CR2032 (Installed)

Workout 1 hour each day continuously working time 300 days(The specific battery life is affected by the working environment)

Image: XOSS Vortex sensor with an exposed CR2032 coin cell battery, illustrating its power-efficient design.

2. Mode Selection (Speed or Cadence)

The XOSS Vortex sensor operates in one mode at a time: Speed or Cadence. To switch modes, you must use the XOSS APP. Ensure the sensor is connected to the app, then select the desired mode. If you require both speed and cadence data simultaneously, two separate sensors are needed.

DUAL MODE CYCLING SENSOR



SPEED MODE



CADENCE MODE

ATTENTION:

- The Android version of the XOSS APP needs to switch the mode of the VORTEX through the Record - Bluetooth interface.
- Please watch the tutorial video of the VORTEX before use.
- To get both speed and cadence data, you need to install two sensors.
- Only one mode is functional at the same time.

Image: Diagram showing the XOSS Vortex sensor in Speed Mode and Cadence Mode, emphasizing that only one mode is active at a time.

3. Sensor Installation

- **For Speed Mode:** Attach the sensor to the hub of either the front or rear wheel using the provided rubber bands. Ensure it is securely fastened and does not interfere with spokes or other moving parts.
- **For Cadence Mode:** Attach the sensor to the crank arm of your bicycle using the provided rubber bands. Ensure it is securely fastened and does not interfere with pedaling.

Note: The spiral trapezoid design is intended to fit snugly on cranks and hubs.

4. Pairing with Devices

Activate the sensor by moving your bike wheel or crank arm. The sensor will automatically enter pairing mode. On your cycling computer, sports watch, or smartphone app (e.g., XOSS App, Zwift, Garmin Connect), search for new ANT+ or Bluetooth sensors and select the XOSS Vortex.

OPERATING INSTRUCTIONS

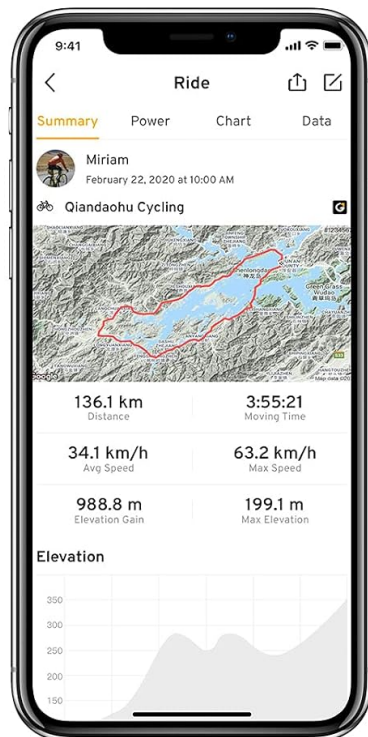
Using with XOSS App

The XOSS App allows you to manage your sensor and track your cycling data. Download the app from the App Store or Google Play. Once connected, you can:

- Switch between Speed and Cadence modes.
- Monitor real-time cadence and speed data.
- Record and analyze your workouts, including distance, average speed, elevation gain, and more.
- Sync data with other platforms like Strava.

POWERFUL XOSS APP SUPPORT

- > Connect VORTEX to XOSS APP
- > Record your workout with Cadence/Speed and Mobile phone GPS
- > Get all the data, graphics and analysis you need



XOSS



Image: Screenshot of the XOSS App interface displaying cycling data summary, charts, and analysis, with download icons for App Store and Google Play.

DUAL MODE FAST SWITCHING VIA XOSS APP

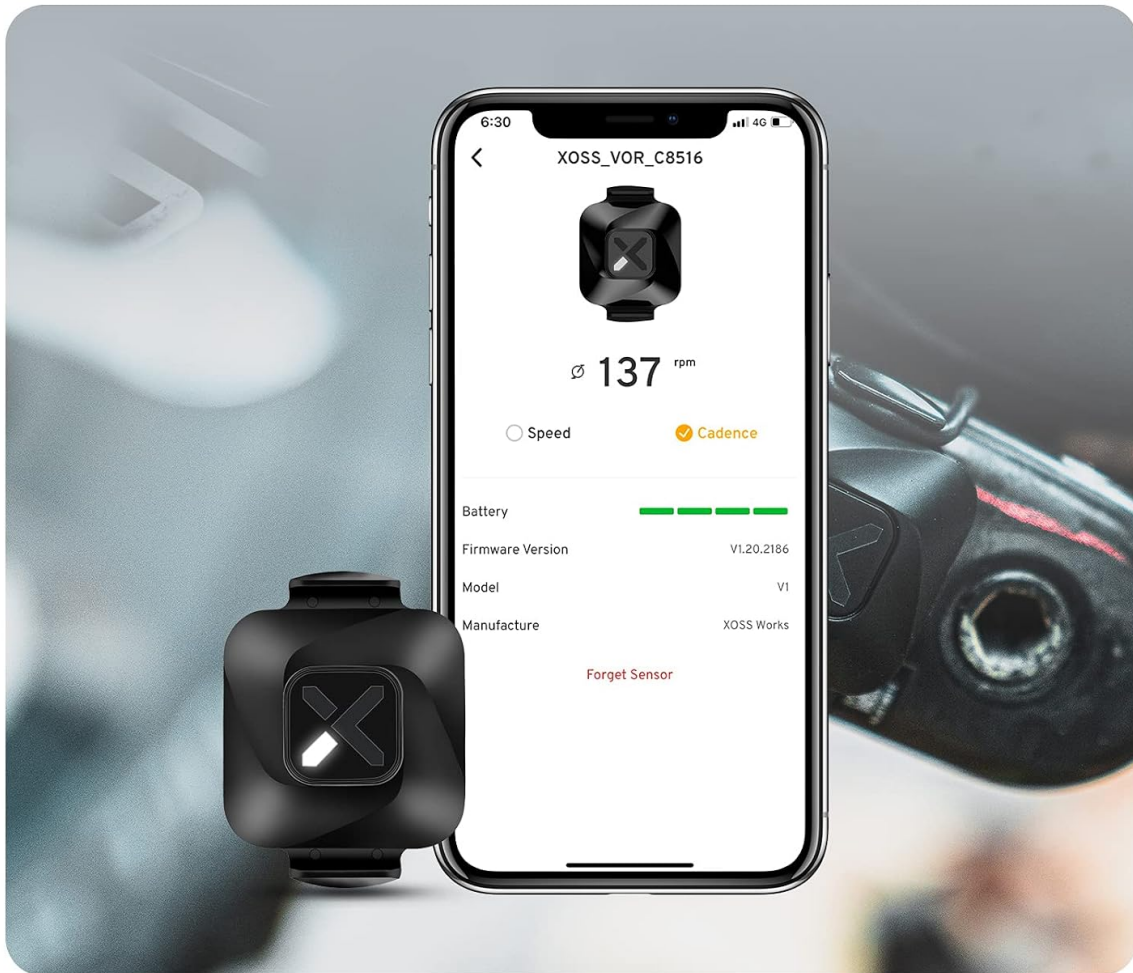


Image: XOSS App interface showing how to switch between Speed and Cadence modes for the Vortex sensor.

Power Management

The sensor features an ECO smart design that automatically switches between work and sleep modes. After 3 minutes of no movement or vibration, it enters sleep mode to conserve battery. Any movement will reactivate it.

To further extend battery life, it is recommended to disconnect or "forget" the sensor from your app or cycling computer after each use, especially if you experience rapid battery drain.

MAINTENANCE

- **Cleaning:** Wipe the sensor with a damp cloth after use, especially after riding in wet or muddy conditions. Avoid using harsh chemicals.
- **Battery Replacement:** Replace the CR2032 battery when the sensor's performance degrades or the app indicates low battery. Ensure the battery compartment is sealed tightly after replacement to maintain IPX7 waterproofing.
- **Storage:** Store the sensor in a cool, dry place when not in use. If storing for extended periods, consider removing the battery.

Water Proof IPX7



Image: XOSS Vortex sensor mounted on a bicycle wheel hub, demonstrating its IPX7 waterproof capability in a wet environment.

TROUBLESHOOTING

- **Sensor Not Connecting:**

- Ensure the sensor is active (move the wheel/crank).
- Check battery level and replace if necessary.
- Verify Bluetooth/ANT+ is enabled on your receiving device.
- Try restarting your receiving device and the XOSS App.
- Ensure no other devices are actively connected to the sensor.

- **Inaccurate Readings:**

- Confirm the sensor is securely mounted and not shifting during rides.
- Ensure the correct mode (speed or cadence) is selected in the XOSS App.
- For speed, ensure your wheel circumference is correctly set in your cycling computer/app.

- **Rapid Battery Drain:**

- Ensure the sensor is disconnected or "forgotten" from your app/device after each use.
 - Verify the battery compartment is sealed correctly.
 - Replace with a fresh, high-quality CR2032 battery.
- **Water Ingress (despite IPX7):**
 - While IPX7 rated, extreme conditions or improper sealing after battery changes can lead to issues. Ensure the battery cover is tightly secured.
 - If water ingress occurs, dry the sensor thoroughly and replace the battery. If issues persist, contact support.
- **XOSS App Limitations:**
 - The XOSS App currently does not support recording indoor cycling activities.

SPECIFICATIONS

Brand	XOSS
Model Number	377ce872-27fb-40ba-86ec-e8eba72f58aa
Material	Plastic, Rubber, Metal
Connectivity	ANT+, Bluetooth 4.0
Measurement Accuracy	±3%
Mounting Type	Hub or Crank Arm Mount (using rubber bands)
Output Type	Digital
Sensing Distance	3 Metres
Waterproof Rating	IPX7
Battery Type	CR2032 Coin Cell
Battery Life	Up to 300 hours
Specific Uses	Outdoor Cycling
Included Components	Sensor, Mounting Accessories, Battery

WARRANTY AND SUPPORT

The XOSS Vortex Cadence and Speed Sensor typically comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact the manufacturer directly.

- **Manufacturer:** XOSS HONG KONG CO., LIMITED
- **Extended Warranty:** An optional 1-Year Extended Warranty by Onsitego may be available for purchase.
- **Technical Support:** For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact XOSS customer support. Refer to the official XOSS website for contact information.



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