Ravemen FR300

RAVEMEN FR300 Bike Light User Manual

Model: FR300 | Brand: Ravemen

Introduction

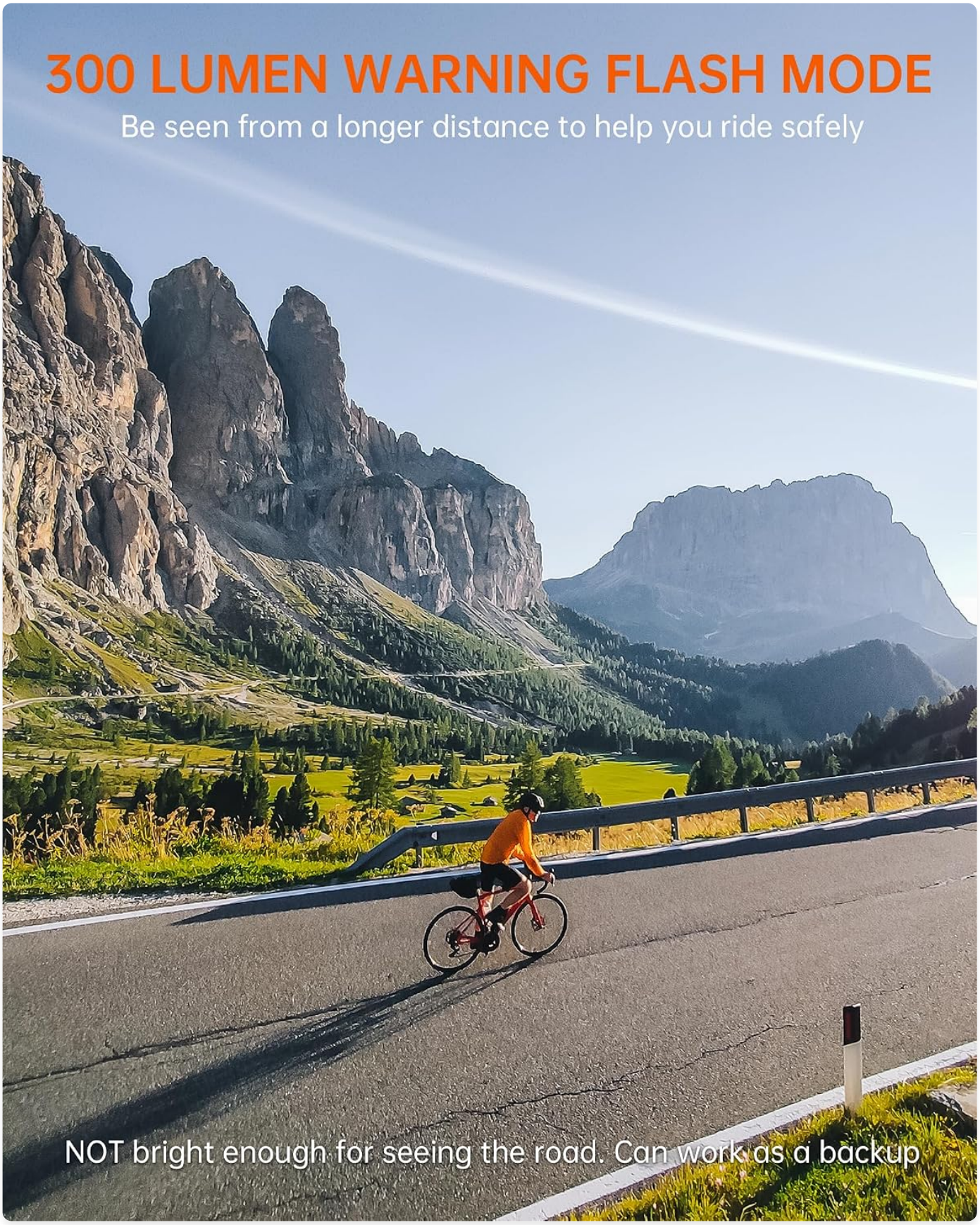
The RAVEMEN FR300 is a high-performance cycling computer accessory designed to enhance rider visibility and provide convenient power solutions. This device features a 300-lumen warning flashing pattern, multiple lighting modes, and compatibility with popular bike computer brands like Garmin and Wahoo. It also functions as a backup power source for cycling computers and includes an auto on/off function to conserve battery life. This manual provides comprehensive instructions for the setup, operation, and maintenance of your FR300.



The RAVEMEN FR300, a compact and versatile bike light and computer accessory.

Key Features

- **High Visibility:** Features a 300-lumen warning flashing pattern and 3 steady modes, ensuring you are seen from a longer distance, day or night.
- **Wide Angle Visibility:** The COB lens wraps to the sides, providing 270° side visibility for enhanced safety at crossroads, junctions, and roundabouts.
- **Bike Computer Compatibility:** Compatible with Garmin-style bike computers by default and includes adapters for Wahoo computers/brackets.
- **Power Bank Functionality:** Can serve as a backup power source to charge cycling computers via USB-C.
- **Smart Power Management:** USB-C rechargeable with a quick 1.8-hour full charge. Features a power level check function and auto on-off to save energy.
- **Durable and Lightweight:** Weighs only 75 grams (0.17 lbs), is IPX6 waterproof, and features a triple hard oxidation treated aluminum alloy base for durability.



The FR300's 300 lumen warning flash mode ensures high visibility for safer riding.



The wraparound COB lens provides 270-degree side visibility, enhancing safety at intersections.



Overview of the six constant and flashing modes available on the FR300, including runtimes.

What's in the Box?

Your RAVEMEN FR300 package includes the following components:

- FR300 Bike Light Unit
- USB-C Charging Cable
- USB-C to Micro USB Cable
- Tether for added security
- Adapters compatible with Wahoo bike computers
- User Manual



All items included in the RAVEMEN FR300 retail package.

Installation & Setup

The FR300 is designed for easy installation on your bike's handlebar mount, typically underneath your bike computer.

Mounting the FR300

The FR300 is compatible with Garmin-style bike computer mounts by default. To install, simply align the FR300 with your existing Garmin-compatible out-front mount and twist to lock it into place. Your bike computer can then be mounted on top of the FR300.



The FR300 easily locks into out-front mounts, allowing a bike computer to be placed on top.

Wahoo Compatibility

If you use a Wahoo bike computer, replace the top and bottom adapters on the FR300 with the included Wahoo-compatible parts. This allows the FR300 to integrate seamlessly with Wahoo mounts and computers. *Note: Not compatible with the original Wahoo ELEMNT BOLT aero out-front mount. Please use other compatible mounts.*



The FR300 is compatible with both Garmin and Wahoo bike computers, with included adapters for Wahoo.

Using the Tether

For extra security, especially when riding on gravel or unpaved roads, use the included tether to secure both your FR300 and your bike computer. This prevents accidental detachment during bumpy rides.



A tether is included to provide extra security for your FR300 and bike computer, preventing loss on rough terrain.

Official Setup Video

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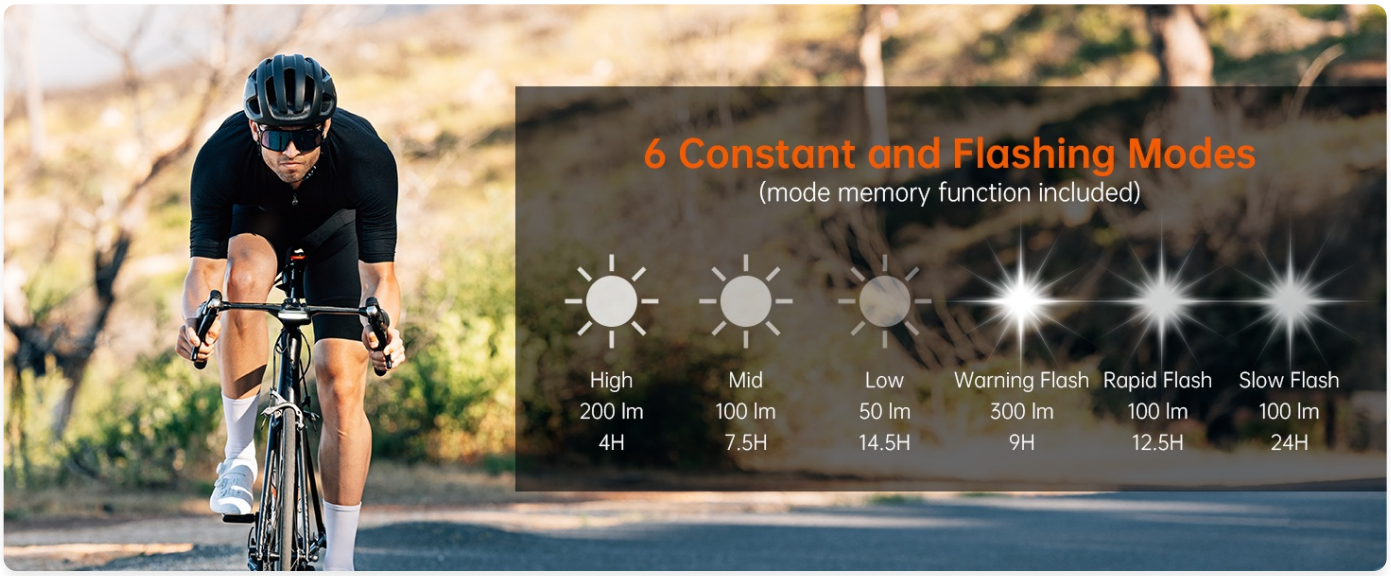
This official video from RAVEMEN demonstrates the compatibility and setup of the FR300 with Garmin and Wahoo cycle computers.

Operation

The FR300 offers various lighting modes and smart features for optimal use.

Power On/Off and Mode Cycling

To turn the light on or off, press and hold the power button. Once on, single-click the power button to cycle through the 6 available modes: 3 steady modes (High, Mid, Low) and 3 flash modes (Warning Flash, Rapid Flash, Slow Flash). The FR300 remembers the last used mode when you turn it on again.



A diagram illustrating the controls and key features of the RAVEMEN FR300, including the power button, wraparound lens, tether hole, and USB-C port.

Auto On-Off Function

The FR300 features an auto on-off function to save power. When activated, the light will automatically switch off after staying still for 2 minutes and will turn on with a vibration, such as when you start riding again.



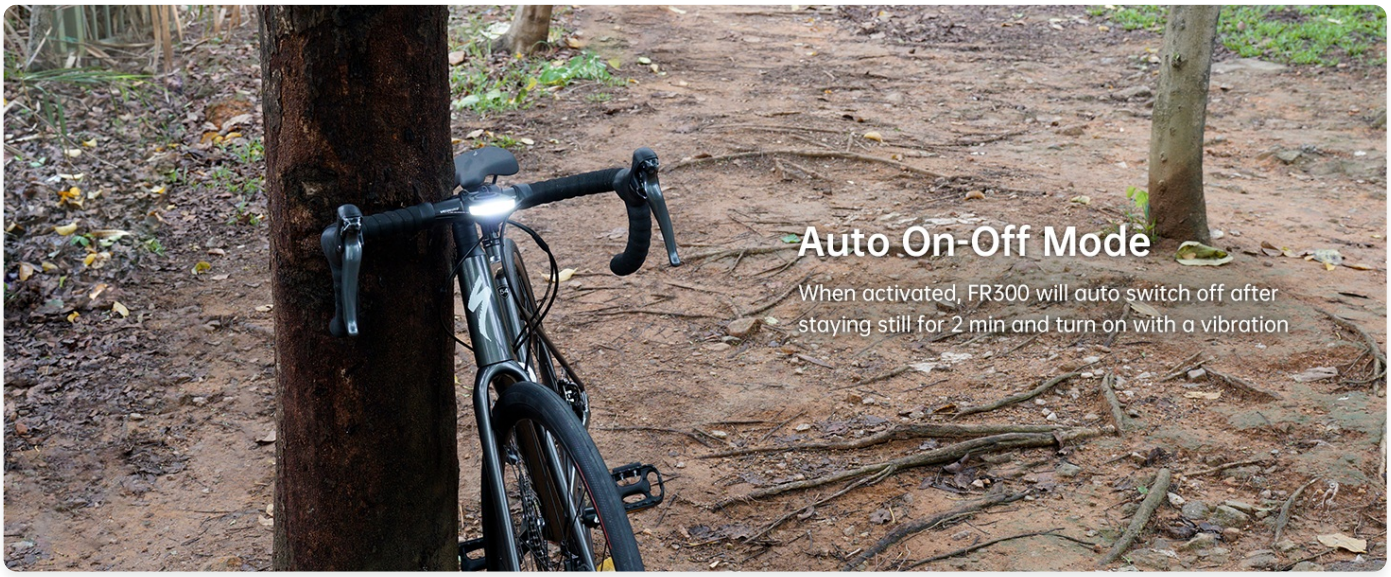
The FR300's auto on-off mode intelligently conserves battery by turning off when stationary and resuming with movement.

Charging & Battery Management

The FR300 is equipped with a USB-C rechargeable battery and offers convenient power management features.

Charging the FR300

Connect the FR300 to a power source using the provided USB-C cable. A full charge takes approximately 1.8 hours. You can use the FR300 while it is charging.



The FR300 is easily rechargeable via USB-C, indicated by charging and fully charged states.

Checking Power Level

When the FR300 is off, a single click of the power button will display the current power level without turning on the light. The indicator light will show:

- **Green:** 40%-100% battery remaining
- **Red:** 5%-40% battery remaining
- **Blinking Red:** Less than 5% battery remaining



The FR300 allows you to check its battery status at any time with a single click, even when the light is off.

Power Bank for Cycling Computers

The FR300 can act as a backup power source for your cycling computer. Use the provided USB-C or C to Micro USB cables to connect and charge your bike computer. It is recommended to connect the bike computer first, then connect the FR300. *Note: Not recommended for charging other devices.*



The FR300 can charge bike computers, with included USB-C and C to Micro USB cables.

Maintenance & Care

To ensure the longevity and optimal performance of your RAVEMEN FR300, follow these maintenance guidelines:

- **Waterproofing:** The FR300 is IPX6 waterproof. Ensure the USB-C charging port cover is securely tightened before any outdoor biking, especially in wet conditions.
- **Cleaning:** Wipe the light with a soft, damp cloth to remove dirt and debris. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the FR300 in a cool, dry place when not in use. If storing for an extended period, ensure the battery is partially charged (around 50%) to maintain battery health.
- **Avoid Extreme Temperatures:** Do not expose the device to extreme heat or cold, as this can affect battery performance and overall lifespan.



The FR300 is IPX6 waterproof, suitable for riding in various weather conditions, provided the charging cover is sealed.

Troubleshooting

This section addresses common issues you might encounter with your RAVEMEN FR300.

- **Light Not Turning On:** Ensure the battery is charged. Press and hold the power button for a few seconds to turn on. If the battery is very low (blinking red indicator), charge the device.
- **Light Not Charging:** Check the USB-C cable connection and try a different charging port or adapter. Ensure the cable is fully inserted into the FR300's port.
- **Bike Computer Not Charging from FR300:** Ensure the FR300 has sufficient battery. Connect the bike computer to the FR300 first, then ensure the FR300 is connected to the bike computer. Use the correct cable (USB-C or C to Micro USB).
- **Auto On-Off Not Working:** Ensure the auto on-off function is enabled (refer to the Operation section). The device needs to detect motion to turn on.
- **Compatibility Issues with Wahoo:** Double-check that you have replaced the default Garmin adapters with the included Wahoo-compatible adapters. Remember, it is not compatible with the original Wahoo ELEMNT BOLT aero out-front mount.

Technical Specifications

Feature	Specification
Brand	Ravemen
Model Name	FR300
Color	Black
Item Weight	0.17 Pounds (75 grams)
Display Type	LED
Battery Cell Composition	Lithium Polymer
Connectivity Technology	USB C Rechargeable
International Protection Rating	IPX6
Mounting Type	Handlebar Mount
Human Interface Input	Buttons
Material	Aluminum, Plastic
Manufacturer	RAVEMEN

Warranty & Support

The RAVEMEN FR300 comes with a **2-year warranty** from the date of purchase, covering manufacturing defects. For warranty claims, technical support, or any inquiries regarding your product, please visit the official Ravemen store or contact their customer service directly.
You can find more information and support on the RAVEMEN Official Store on Amazon.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question