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CYCLAMI RT02-US

CYCLAMI RT02 Bike Radar Tail Light User Manual

Model: RT02-US

INTRODUCTION

The CYCLAMI RT02 Bike Radar Tail Light is designed to enhance cycling safety by providing real-time detection of approaching vehicles from behind. Featuring 24GHz millimeter-wave radar technology, active alerts, brake sensing, and multiple lighting modes, this device offers comprehensive protection for various cycling conditions.

SAFETY INFORMATION

- Always ensure the tail light is securely mounted and fully charged before each ride.
- The radar system is an aid and should not replace visual awareness and safe cycling practices.
- Regularly check the device for any damage or malfunctions.
- Do not look directly into the light when it is active to avoid eye strain.
- Keep out of reach of children.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Bike Tail Light (1)
- Seatpost Mount (1)
- Saddle Rail Mount (1)
- USB-C Charging Cable (1)
- User Manual (1)

PRODUCT OVERVIEW

The CYCLAMI RT02 integrates a 24GHz radar sensor with a high-visibility tail light. Key features include:

- **24GHz Millimeter-Wave Radar:** Detects vehicles up to 60 meters away with a 54° wide-angle.
- **Active Alert System:** Provides dual-tone audio warnings (1 beep at 60m, 2 beeps at 10m) and rapid light flashes

for approaching vehicles.

- **Brake Sensing:** Automatically activates an ultra-bright red light during sudden stops.
- **Group Riding Mode:** Filters out same-speed teammates to prevent false alerts.
- **Multiple Lighting Modes:** Five modes available: Steady, Fast Flash, Slow Flash, Breath, and SOS.
- **Long Battery Life:** 1000mAh battery provides 3-6 hours runtime, USB-C rechargeable.
- **Vibration Wake-Up:** Power-saving feature that activates the device only when motion is detected.
- **Durable Construction:** IP64 waterproof aluminum alloy + PC shell.



Image: Top and bottom view of the CYCLAMI RT02 Radar Tail Light, highlighting its compact design and control buttons.

SETUP AND INSTALLATION

The RT02 offers dual installation options for versatility.

1. Seatpost Mount Installation

1. Attach the seatpost mount to your bicycle's seatpost using the provided straps or bands. Ensure it is tight and stable.
2. Slide the RT02 tail light onto the mount until it clicks securely into place.
3. Adjust the angle so the light faces directly backward and the radar has an unobstructed view.

2. Saddle Rail Mount Installation

1. Secure the saddle rail mount to the rails under your bicycle saddle.
2. Slide the RT02 tail light onto the mount until it locks.
3. Verify the light is horizontal and facing directly backward.

Radars warning Sound

When the rear car into the radar to detect the distance of 60m radar ringing one, when the rear car close to the distance of 10 meters from their own radar ringing two to remind the rider

Sound function can be freely switched on and off



Image: The CYCLAMI RT02 Radar Tail Light installed on a bicycle, demonstrating its low-profile and secure fit.

OPERATING INSTRUCTIONS

Power On/Off

- To power on, press and hold the power button for 2 seconds. The light will illuminate.
- To power off, press and hold the power button for 2 seconds. The light will turn off.

Mode Selection

Short press the power button to cycle through the 5 available lighting modes: Steady, Fast Flash, Slow Flash, Breath, and SOS.

Radar Functionality

The 24GHz radar continuously monitors for vehicles approaching from behind within a 60-meter range and 54° angle.

- **Audio Alerts:** A single beep sounds when a vehicle is detected at approximately 60 meters. Two rapid beeps sound when the vehicle is within 10 meters.
- **Visual Alerts:** The tail light will flash rapidly to alert the rider and the approaching vehicle.
- **Group Riding Mode:** This mode intelligently filters out other cyclists riding at similar speeds, reducing unnecessary alerts during group rides.

Radar Active Warning

Automotive grade millimeter wave radar

No need to turn back, real-time detection of vehicles within 60 meters at speeds of 10km~120km

Tail light flashes to alert the rear vehicle when it enters the radar range



Detects vehicles behind you even in the blind spot of a curve.

Image: Illustration of the radar active warning system, showing a cyclist and an approaching vehicle with radar detection range.

Brake Sensing

The integrated high-precision brake sensor detects sudden deceleration. Upon braking, the tail light automatically switches to an ultra-bright red light to signal to vehicles behind you.

Vibration Wake-Up

To conserve battery, the device enters a dormant state after 30 seconds of inactivity. It automatically wakes up and resumes operation when vibration (motion) is detected, such as when you start riding.

CHARGING

The CYCLAMI RT02 is equipped with a 1000mAh rechargeable battery.

- Connect the provided USB-C cable to the charging port on the device and to a standard USB power source (e.g., computer, wall adapter).

- A full charge typically takes approximately 2 hours.
- The indicator light will show charging status (e.g., red for charging, green for fully charged).

MAINTENANCE

- Clean the lens and radar sensor regularly with a soft, damp cloth to ensure optimal performance.
- Avoid using abrasive cleaners or solvents.
- Store the device in a cool, dry place when not in use.
- Ensure the USB-C port cover is securely closed to maintain IP64 water resistance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device malfunction.	Charge the device fully. If problem persists, contact customer support.
Radar not detecting vehicles.	Sensor obstructed; incorrect mounting angle; radar interference.	Ensure sensor is clean and unobstructed. Adjust mounting angle. Avoid areas with high electromagnetic interference.
Audio alerts are too quiet.	Environmental noise; user hearing.	While the device provides alerts, external factors like wind and traffic noise can affect audibility. Rely on visual alerts and regular checks.
Brake sensing not working.	Device not securely mounted; sensor malfunction.	Ensure the device is firmly mounted and does not wobble. Contact support if the issue continues.

SPECIFICATIONS

- **Model Name:** RT02-US
- **Radar Frequency:** 24GHz
- **Radar Detection Range:** Up to 60 meters
- **Radar Detection Angle:** 54°
- **Visibility:** 500m
- **Battery Capacity:** 1000mAh
- **Charging Port:** USB-C
- **Charging Time:** Approximately 2 hours
- **Runtime:** 3-6 hours (depending on mode)
- **Waterproof Rating:** IP64
- **Material:** Aluminum Alloy + PC
- **Item Weight:** 54 Grams
- **Dimensions:** 2.44" x 1.65" x 0.94" (approximate, based on feature bullets)

WARRANTY AND SUPPORT

The CYCLAMI RT02 Bike Radar Tail Light comes with a **1-year warranty** from the date of purchase. For technical support, warranty claims, or any inquiries, please contact the seller, SoRider, or CYCLAMI customer support.

Seller: SoRider

Please refer to your purchase documentation for specific contact details or visit the official CYCLAMI website for further assistance.

PRODUCT VIDEOS

Your browser does not support the video tag.

Video: Official product video demonstrating the features and functionality of the CYCLAMI RT02 Bike Radar Tail Light, including radar detection and alerts.

