

CYCLAMI RT01

CYCLAMI Smart Brake Warning Radar Bike Tail Light User Manual

Model: RT01

Brand: CYCLAMI

INTRODUCTION

This manual provides detailed instructions for the operation, maintenance, and troubleshooting of your CYCLAMI RT01 Bike Tail Light Radar. This device is designed to enhance cycling safety by providing rear radar monitoring and a high-visibility taillight.

Key features include:

- Dual Recognition:** The radar system intelligently distinguishes between approaching vehicles and stationary objects, emitting a warning light only when a high-speed vehicle is detected.
- Rear Radar Monitor:** Alerts the rider to vehicles approaching from behind, improving situational awareness.
- Advanced Safety:** Features a 54° radar angle for detection even on curves and utilizes millimeter-wave pulse signals for accurate detection of fast-moving vehicles and slow cyclists.
- Long Lasting Battery:** Offers up to 36 hours of battery life with a USB-C charging port. Includes automatic brightness reduction and sleep/wake functions for power efficiency.
- Waterproof Design:** IP64 weatherproof rating ensures durability in various conditions.

SETUP

1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that the package contains the CYCLAMI RT01 unit, mounting bracket(s), and a USB-C charging cable. Inspect the device for any visible damage.

2. Charging the Device

Before first use, fully charge the device. Connect the provided USB-C cable to the charging port on the device and plug the other end into a standard USB power adapter (not included). The charging indicator light will show the charging status. A full charge can provide up to 36 hours of operation depending on the mode used.

3. Mounting the Tail Light

The CYCLAMI RT01 offers versatile mounting options. It can be attached to the seatpost or saddle rails using the provided brackets. Ensure the device is securely fastened and positioned to provide an unobstructed view for the radar and maximum visibility for the taillight.



Image: The CYCLAMI RT01 Bike Tail Light Radar securely mounted on a bicycle's seatpost, demonstrating its compact size and rear visibility.

Dual Bracket Mount

More user-friendly mounting bracket without additional mounting tools.



Seatpost Mounting Bracket

Saddle Mounting Bracket

Image: Illustration of the dual bracket mount options, showing how the device can be mounted on both the seatpost and saddle rails for flexible installation.

For optimal radar performance, ensure the radar emitter (the central rectangular area) is not obstructed and is pointing directly backward.

OPERATING INSTRUCTIONS

1. Power On/Off

The device features independent control buttons for the regular light and radar functions.

Independent Switch

Individual control of normal light and radar or combined light and radar for use in different environments.

Regular Light Button

7 light modes available

Radar Mode Button

3 light modes available

Radar Wave Emitter

54° millimeter radar wave

LED Beads*20

Visible from 500m away



Click regular mode to light up green, click to switch mode within 5 sec / click to turn off after 5 sec, long press to turn off the power to force .



Click Radar Mode lights blue, click to switch mode within 5 sec / click to turn off after 5 sec, long press to turn off the power to force .

Image: Diagram illustrating the independent control buttons for the regular light and radar modes, along with the radar wave emitter and LED beads.

- Regular Light Button:** Click to turn on the regular light. Click again within 5 seconds to cycle through 7 available light modes. Long press to force power off.
- Radar Mode Button:** Click to turn on the radar function. The radar mode light will illuminate blue. Click again within 5 seconds to cycle through 3 available radar light modes. Long press to force power off.

The device supports independent control of the normal light and radar, or combined operation, allowing adaptation to different riding environments.

2. Light Modes and Customization

The CYCLAMI RT01 offers various lighting modes for visibility and power saving. The radar mode can be used independently or in conjunction with regular lights.

Lighting Customization

Designed to meet the needs of different environments, the radar mode can be used with regular lights or turned on separately to save power.

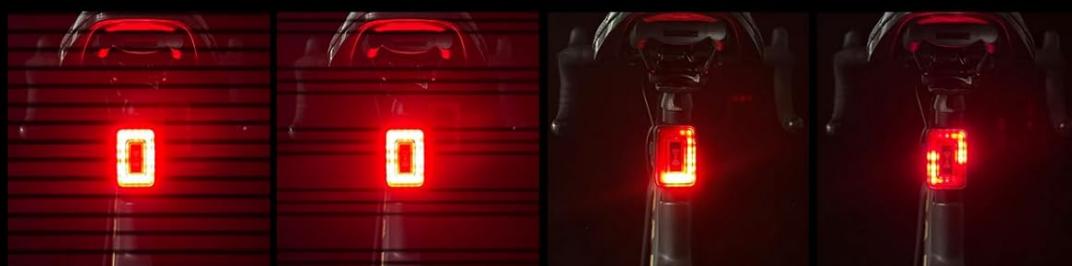


Bright
(4H 34Lm)

Breathing
(4.5H 35Lm)

Strobe
(5.5H 37Lm)

(will take up the mode from regular lights)



Slow Strobe
(13H 35Lm)

Warning Strobe
(11H 35Lm)

Climbing Snake
(36H 3Lm)

Double Snake
(36H 4Lm)

*Radar mode can select three kinds of burst flashing methods: Maximum brightness / Breathing light / High-frequency flashing, and the mode selected by the radar will be occupied.

Image: Visual representation of various lighting modes including Bright, Breathing, Strobe, Slow Strobe, Warning Strobe, Climbing Snake, and Double Snake, with their approximate battery life and lumen output.

Radar mode allows selection of three burst flashing methods: Maximum brightness, Breathing light, or High-frequency flashing. The mode selected by the radar will override other light settings when an approaching vehicle is detected.

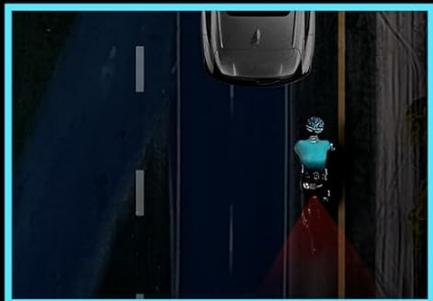
3. Radar Functionality

The integrated radar system detects approaching vehicles from behind, providing visual alerts to the rider. The system is designed to differentiate between vehicles and other objects to minimize false alarms.

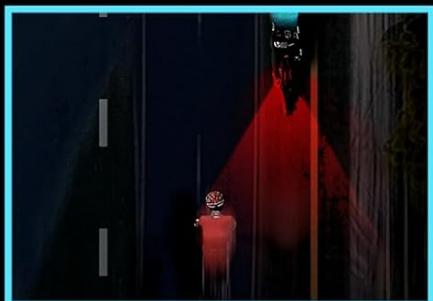
Radar Taillight



Warning high-beam light when the vehicle behind is approaching quickly.

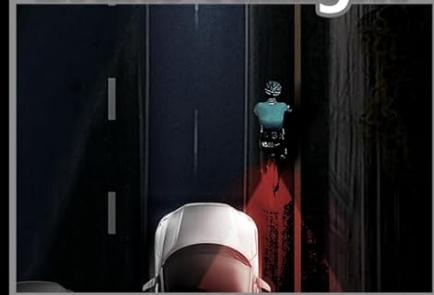


Intelligent recognition, no blinking when braking with no vehicle approaching



Warns only when teammates overtake, protects teammates' eyes.

Brake Taillight



Warns only when braking and can easily cause accidents.



Alerts even if there is no vehicle approaching from behind when braking, consuming power faster.



Relying on strobe warnings, teammates' vision is disturbed.

Image: A comparative diagram illustrating the advantages of a radar taillight over a traditional brake taillight, highlighting intelligent recognition and continuous alerts.

- **Vehicle Detection:** The radar can detect vehicles up to 500 meters away.
- **Warning Light:** When a high-speed vehicle is recognized, the taillight emits a warning light until the vehicle passes.
- **Intelligent Recognition:** Targets traveling at the same speed or away from the vehicle will not trigger the radar. The system focuses on rapidly approaching threats.

High Brightness Alert

LED*20 red light beads bring powerful brightness, night and foggy day riding effectively warn the rear car, protect your riding safety.



Image: Depiction of the high brightness alert feature, showing the taillight's visibility from 500m, 200° floodlight capability, and 50,000H lamp life.

MAINTENANCE

1. Cleaning

Wipe the device with a soft, damp cloth to remove dirt and debris. Do not use abrasive cleaners or solvents, as these can damage the plastic housing or lens. Ensure the radar emitter area is kept clean for optimal performance.

2. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Recharge the device regularly, especially if it has been stored for an extended period. Store the device in a cool, dry place when not in use.

3. Waterproofing

The device has an IP64 waterproof rating, meaning it is protected from dust and splashing water from any direction. While it can withstand rain, avoid submerging the device in water.

TROUBLESHOOTING

1. Device Not Turning On

- Ensure the device is fully charged. Connect it to a power source and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify that the power button is being pressed correctly (long press for force power off, single click for on/mode change).

2. Short Battery Life

- Battery life varies significantly with the selected light mode. Brighter or constantly active modes consume more power. Try using a lower brightness or a less frequent flashing mode for extended battery life.
- Ensure the device is fully charged before each ride.
- Over time, rechargeable batteries naturally degrade. If battery life significantly diminishes despite proper charging and usage, the battery may be nearing the end of its lifespan.

3. Radar Not Detecting Vehicles or False Alarms

- Ensure the radar emitter area on the device is clean and free from obstructions (e.g., mud, dirt, clothing).
- Verify that the device is mounted correctly and is pointing directly backward without being angled too far up or down.
- The radar is designed to detect vehicles approaching at a higher relative speed. It may not alert for vehicles moving at the same speed or away from you.
- Certain environmental factors (e.g., heavy rain, dense fog, highly reflective surfaces) can affect radar performance.

4. Device Falls Off During Ride

- Ensure the mounting bracket is securely fastened to the seatpost or saddle rails.
- Verify that the device is properly clicked into the mounting bracket. A distinct click should be heard when attaching.
- Regularly check the tightness of the mounting screws or straps, especially after riding on rough terrain.

SPECIFICATIONS

Feature	Detail
Model Number	RT01
Dimensions	30L x 38W x 53H millimeters
Weight	59 Grams
Material	Plastic
Power Source	Battery Powered (USB-C Rechargeable)
Water Resistance Level	IP64 (Waterproof)
Radar Detection Distance	Up to 500 meters
Radar Angle	Up to 54°
Light Output (Max)	90 Lumens
Battery Life (Max)	Up to 36 hours (mode dependent)

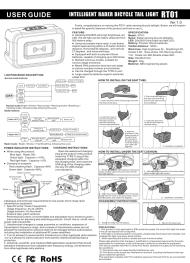
Mounting Type	Seat Mount (Seatpost/Saddle)
Color	Black

WARRANTY AND SUPPORT

Information regarding product warranty and customer support is not available in this manual. Please refer to the product packaging or the manufacturer's official website for warranty details and contact information for support inquiries.

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Related Documents

	<p>RT01 Intelligent Radar Bicycle Tail Light User Guide</p> <p>User guide for the RT01 Intelligent Radar Bicycle Tail Light, detailing features, specifications, installation, operation, and precautions for safe cycling.</p>
	<p>Cyclami Bicycle Light BR-1200 User Manual</p> <p>Comprehensive user manual for the Cyclami BR-1200 bicycle light, covering operating modes, specifications, installation, and battery information. Includes instructions in English, Spanish, Chinese, and Japanese.</p>
	<p>CYCLAMI CYC1000/PRO Bicycle Headlights User Manual</p> <p>Comprehensive user manual for the CYCLAMI CYC1000/PRO bicycle headlights, covering specifications, features, installation, operation, charging, and safety precautions.</p>
	<p>CYCLAMI C1 CAD SPD Cadence Speed Sensor Instruction Manual</p> <p>Instruction manual for the CYCLAMI C1 CAD SPD wireless cadence and speed sensor. Covers packing list, specifications, installation, pairing, battery replacement, and warranty information.</p>