

## MEILAN X5

# MEILAN X5 Smart Bike Tail Light User Manual

Brand: MEILAN | Model: X5

### 1. INTRODUCTION

The MEILAN X5 Smart Bike Tail Light is designed to enhance cycling safety and visibility. It features ultra-bright LED lights, wireless remote control for various lighting modes, automatic brake light detection, and a unique ground warning line function. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and a safe riding experience.



Figure 1: MEILAN X5 Smart Bike Tail Light and its wireless remote control.

## 2. KEY FEATURES

- **Ultra-Bright LED:** Equipped with 30 high-end LED lights, providing up to 85 LM brightness for visibility from 150ft in various conditions.
- **Wireless Remote Control:** Easily switch between six lighting modes (Steady with full brightness, Fast Flash, Flowing Light, Turn Left, Turn Right, Ground Line) using the handlebar-mounted remote.
- **Automatic Brake Light:** A built-in motion sensor detects braking, causing the light to highlight for 12 seconds with high brightness to alert vehicles and pedestrians behind you.
- **Ground Warning Line:** Projects two red laser lines on the ground, creating a virtual lane to enhance safety and visibility for incoming vehicles.
- **USB Rechargeable:** Features a 2000mAh rechargeable battery, offering 5-10 hours of operation in flashing mode. The remote control uses a replaceable CR2032 coin cell battery with a 12-month working life.
- **Waterproof Design:** Rated IPX4 for water resistance, ensuring reliable performance in various

weather conditions.

## MEILAN X5 Smart Bike Tail Light



Figure 2: Overview of MEILAN X5 key features including brightness, remote control, brake light, ground lane alert, USB rechargeability, and waterproofing.

## Wireless Remote Control Multiple Lighting Modes to Help you Ride Safely



Figure 3: Illustration of the six lighting modes controlled by the wireless remote: Steady, Fast Flash, Flowing Light, Turn Left, Turn Right, and Ground Line.

### 3. SETUP AND INSTALLATION

The MEILAN X5 tail light offers flexible mounting options to suit your bicycle setup.

#### 3.1 Tail Light Installation

The tail light can be mounted either on the bike seat post or under the bike saddle.

1. **On the Bike Pipe (Seat Post):** Use the provided mounting bracket and rubber band to secure the tail light firmly to your bicycle's seat post. Ensure it is positioned vertically for optimal visibility.
2. **Under the Bike Saddle:** Utilize the specialized mounting bracket to attach the tail light directly to the rails under your bike saddle. This position often provides a higher mounting point for increased visibility.





Figure 4: Visual guide for installing the MEILAN X5 tail light under the bike saddle or on the bike pipe.

### 3.2 Remote Control Installation

The wireless remote control should be installed on your bicycle's handlebar for easy access during riding. Use the provided rubber band to secure it in a convenient position that allows you to operate the buttons without compromising control of your bike.



\* There is a red LED lights under the key of the remote controller. It will light on to indicate the working mode of taillight.



\* Please ensure the taillight has been turned on by press the button ton the side of itself first before use the controller.

Figure 5: Diagram showing the remote control and tail light, highlighting the ON/OFF button and USB charging port on the tail light. Note: The tail light must be turned on via its side button before using the remote.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On/Off

To power on the MEILAN X5 tail light, press the ON/OFF button located on the side of the unit. Ensure the tail light is powered on before attempting to control it with the remote. To power off, press the ON/OFF button again.

### 4.2 Using the Wireless Remote Control

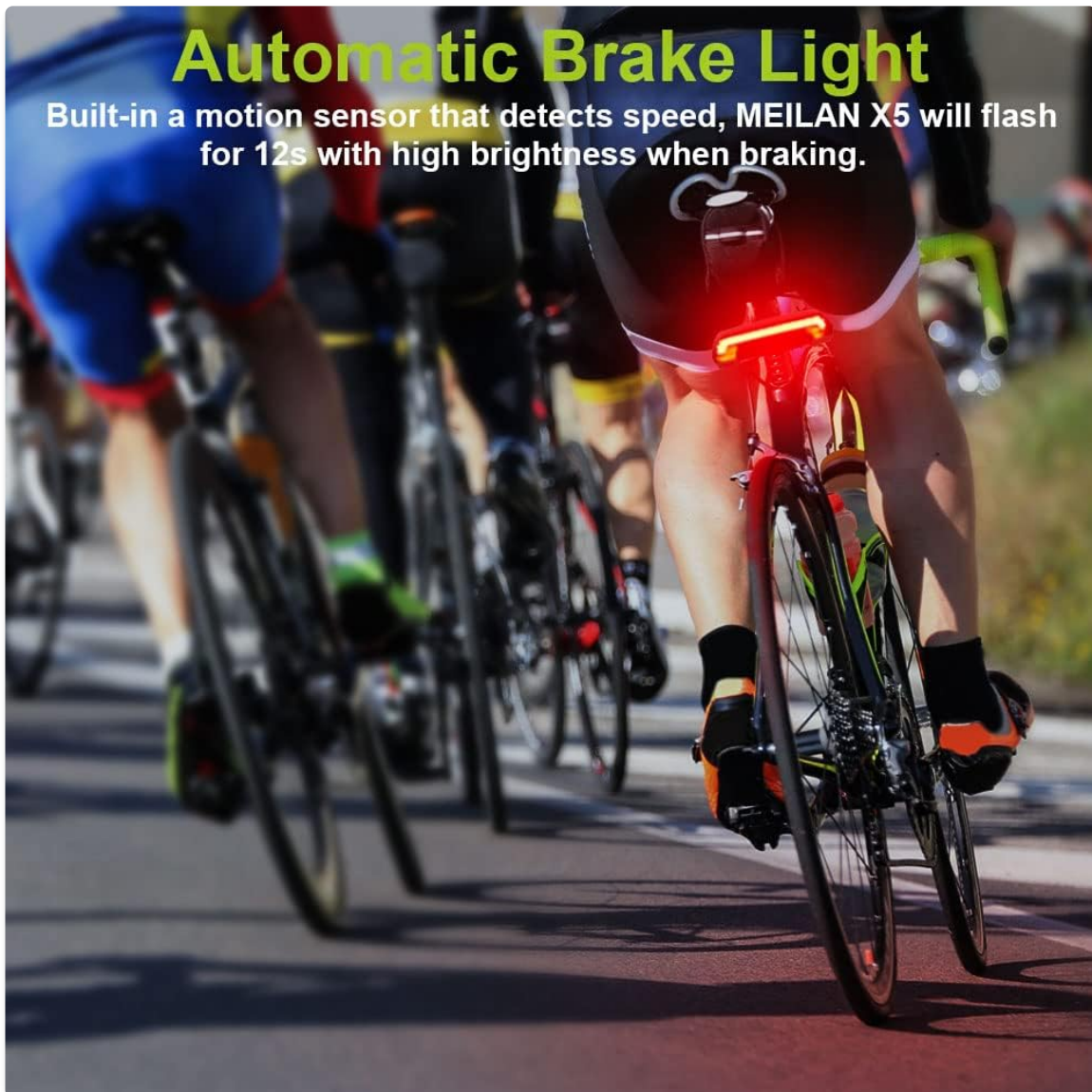
The remote control allows you to easily switch between different lighting modes:

- **Mode Selection:** Press the central button on the remote to cycle through the main lighting modes: Steady with full brightness, Fast Flash, and Flowing Light.
- **Turn Signals:** Use the left and right arrow buttons to activate the corresponding turn signals. The light will flash in the indicated direction.
- **Ground Line:** Press the "LASER" button to activate or deactivate the ground warning lines.
- A red LED light under the remote control button will illuminate to indicate the currently selected

lighting mode of the taillight.

### 4.3 Automatic Brake Light Function

The tail light is equipped with a motion sensor. When braking is detected, the tail light will automatically increase its brightness and flash rapidly for approximately 13 seconds to provide a clear warning to traffic behind you.



*Figure 6: The tail light automatically brightens and flashes when braking is detected, enhancing safety.*

### 4.4 Ambient Light Detection

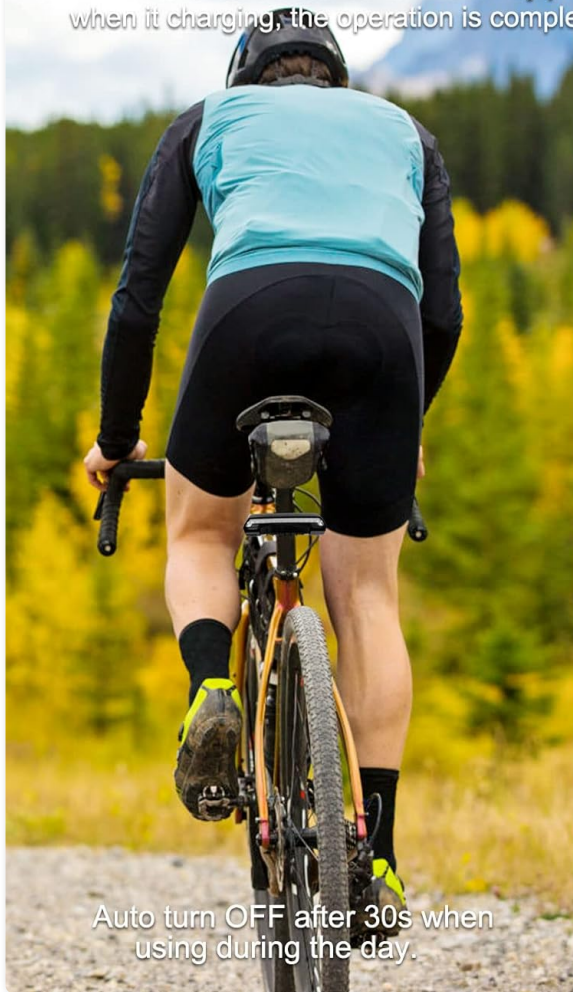
The MEILAN X5 features an ambient light sensor that can automatically turn the light ON or OFF based on surrounding light conditions. This function can be turned off by pressing the power button of the X5 for 3 seconds when it is charging. The operation is complete when the middle group of LEDs flashes.

- **Auto Turn OFF:** The light will automatically turn off after 30 seconds of inactivity when used during the day.
- **Auto Turn ON:** The light will automatically turn on when passing through a dark environment.



## Ambient Light Detection

This function can be turned off by pressing the power button of X5 for 3s when it charging, the operation is complete when the middle group of LEDs flashes.



Auto turn OFF after 30s when using during the day.



Auto turn ON when passing through the dark environment.

Figure 7: The tail light adjusts automatically to ambient light, turning off in daylight and on in dark conditions.

### 4.5 Ground Warning Line

Activate the ground warning lines using the "LASER" button on the remote. These red laser lines project onto the ground behind your bicycle, creating a visible safety zone and alerting other road users to your presence and space.



## Two Ground Warning Lines

### Expand your Safe Riding Range



Figure 8: The tail light projects two red laser lines on the ground, expanding your safe riding range.

## 5. MAINTENANCE

### 5.1 Charging the Tail Light

The MEILAN X5 tail light is equipped with a 2000mAh rechargeable battery. To charge, connect the provided USB charging cable to the USB charging port on the tail light (refer to Figure 5). A full charge provides approximately 5-10 hours of operation in flashing mode. Ensure the port cover is securely closed after charging to maintain water resistance.

### 5.2 Remote Control Battery Replacement

The wireless remote control is powered by a CR2032 replaceable coin cell battery, which typically lasts for about 12 months. When the remote's indicator light becomes dim or unresponsive, replace the battery by carefully opening the battery compartment on the back of the remote.

### 5.3 Cleaning and Care

Wipe the tail light and remote control with a soft, damp cloth to remove dirt and debris. Avoid using abrasive cleaners or solvents. While the tail light is IPX4 waterproof, avoid submerging it in water. Store the device in a cool, dry place when not in use.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tail light does not turn on.	Battery is depleted.	Charge the tail light fully using the USB cable.
Remote control is unresponsive.	Tail light is not powered on; Remote battery is low/dead; Remote not paired.	Ensure tail light is turned on via its side button. Replace CR2032 battery in remote. Refer to the full user manual for pairing instructions if needed.
Automatic brake light not working.	Sensor obstruction or malfunction.	Ensure the sensor area is clean and unobstructed. If the issue persists, refer to the troubleshooting guide.
Ground warning lines are dim or not visible.	Ambient light is too bright; Laser is off.	The laser lines are most visible in low light conditions. Ensure the "LASER" button on the remote is pressed to activate them.

For more detailed troubleshooting steps, please refer to the official [Troubleshooting Guide \(PDF\)](#).

## 7. SPECIFICATIONS

**Brand:** MEILAN

**Model Name:** X5

**Material:** Plastic

**Power Source:** Battery Powered (USB Rechargeable)

**Battery Capacity:** 2000mAh

**Water Resistance Level:** IPX4 (Waterproof)

**Item Weight:** 4.16 ounces

**Product Dimensions:** 4.13"L x 1.77"W x 1.97"H

**Number of Settings (Lighting Modes):**6

**Brightness:** 85 LM

**Mounting Type:** On bike pipe / under bike saddle

**Remote Control Battery:** CR2032 (replaceable)

## 8. WARRANTY INFORMATION

The MEILAN X5 Smart Bike Tail Light comes with a **ONE YEAR Warranty** from the date of purchase. This warranty covers manufacturing defects and material flaws under normal use. Please

retain your proof of purchase for warranty claims.






## 9. SUPPORT

For any problems, questions, or assistance with your MEILAN X5 Smart Bike Tail Light, please do not hesitate to contact us. We are committed to providing the best possible support and will do our best to help you.

### Additional Resources:

- [Official User Manual \(PDF\)](#)
- [Troubleshooting Guide \(PDF\)](#)

## Related Documents - X5

	<p><a href="#">MEILAN M3 Mini GPS Bike Computer Instruction Manual</a></p> <p>This document provides comprehensive instructions for the MEILAN M3 Mini GPS Bike Computer, covering its features, setup, operation, specifications, safety guidelines, and warranty information.</p>
	<p><a href="#">MEILAN M3 GPS Bike Computer User Guide and FAQ</a></p> <p>A comprehensive guide and frequently asked questions for the MEILAN M3 GPS Bike Computer, covering setup, features, and troubleshooting.</p>
	<p><a href="#">MEILAN M3 Wireless Bike Computer Instruction Manual</a></p> <p>This manual provides comprehensive instructions for the MEILAN M3 Wireless Bike Computer, covering setup, operation, GPS functionality, battery management, specifications, and safety guidelines for cyclists.</p>
	<p><a href="#">MEILAN Blade Wireless Bike Computer Quick Start Guide</a></p> <p>Quick start guide for the MEILAN Blade Wireless Bike Computer, covering installation, setup, sensor pairing, workout tracking, and history viewing. Includes instructions for mounting the device and sensors, configuring settings, and using the MEILAN app.</p>
	<p><a href="#">MEILAN OVAL GPS Core Bike Computer: Quick User Guide</a></p> <p>Comprehensive guide to the MEILAN OVAL GPS Core Bike Computer, covering installation, setup, sensor pairing, data recording, app connection, charging, parameters, and safety information.</p>





GPS Navigace  
Cyklistický Komputer  
Návod k použití

### [Meilan M1 GPS Cycling Computer User Manual](#)

Comprehensive user manual for the Meilan M1 GPS cycling computer, covering setup, features, functions, training management, connectivity with apps like Komoot, device parameters, and warranty information.