# Navihood B2

## Expression Radar Laser Taillight

## Quick Start Guide

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# 1. Product Overview Diagram

| | |
|---|---|
| 1 Custom Patterns & Text | 2 Radar Detection |
| 3 Safe Distance Laser Warning Light | 4 B1 Button |



## · Turn Signal Display & Bike Computer Data Display

## · Safe Distance Laser Warning Light

## ▪ Charging Indicator Light

When B2 is powered ON and charging, it shows the current battery level.

When B2 is powered OFF and charging, the red light flashes.

When B2 is powered ON, the COB light is OFF, but the radar works normally.

## ▪ Radar Status

Radar ON

Radar OFF

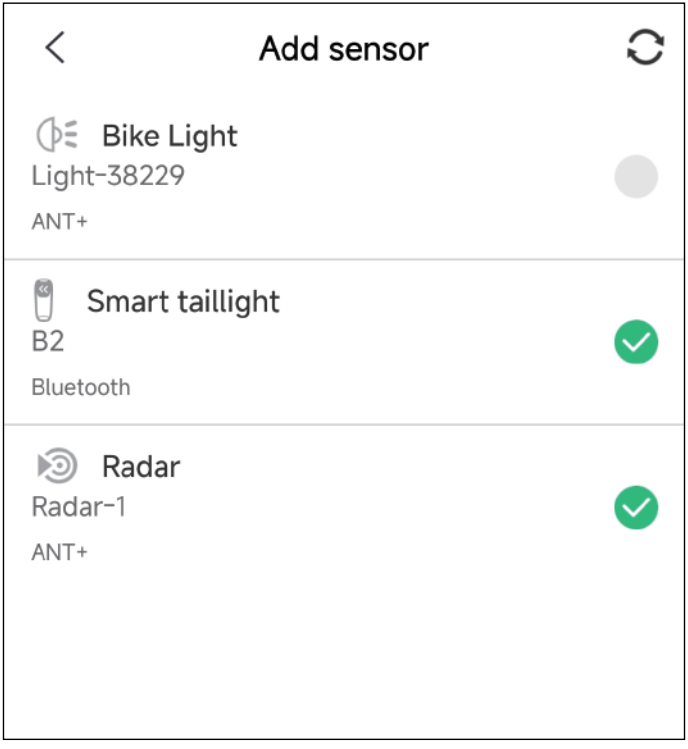


## ▪ Bike Computer – B2 Sensor Connection Displays Two Modes

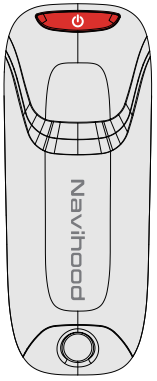
① Smart Taillight B2: shows bike computer data and left/right turn signals.

② Radar Connection: shows rear vehicle status on the bike computer.

When using B2 with a bike computer, please make sure to select both modes.



## 2. Button Functions




① Long press: Power ON; long press again: Power OFF

② Short press: Switch to pattern display mode / Change display pattern

③ Double press quickly: Switch to sports mode (displays bike computer data)

④ When powered ON, long press for 10 seconds: Restore factory settings

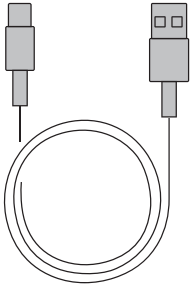
⑤ If B2 is not used for a certain period of time, it will enter sleep mode or shut down automatically.

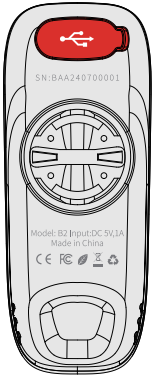
To use it again, shake the bike to activate or press the button to power on.

You can adjust the sleep timer duration in the app.

## 3. Charging Port

Input: TYPE-C, DC 5V/1.5A, Charging Time: 1 hour



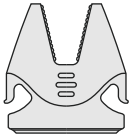




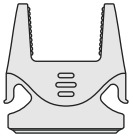

## 4. Product Installation

### ▪ Mounting on the Seatpost

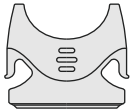
**① Choose the silicone pad that fits your seatpost shape:**



Suitable for rear triangle seatpost



Suitable for slightly square seatpost



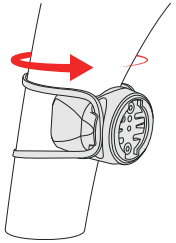
Suitable for round seatpost

**② Choose the rubber O-ring that matches your seatpost diameter:**

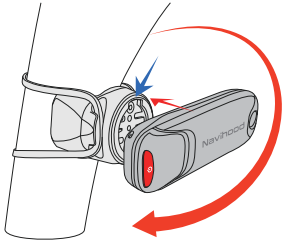
A. Large O-ring 622mm: for larger non-standard aero road bike seatposts

B. Medium O-ring 402mm: for 31.8mm diameter MTB seatposts

C. Small O-ring 36*3mm: for 27mm diameter road bike seatposts

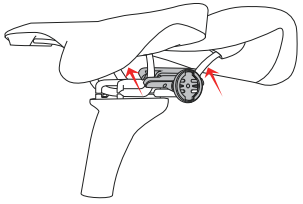


**③ Loop the O-ring around the seatpost to secure the taillight mount.**

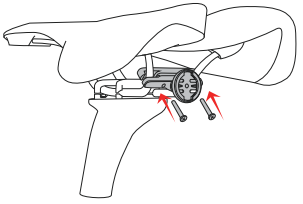



**④ Align the taillight back clip with the mount slot, then rotate it clockwise 90° to lock. To remove, rotate counterclockwise.**

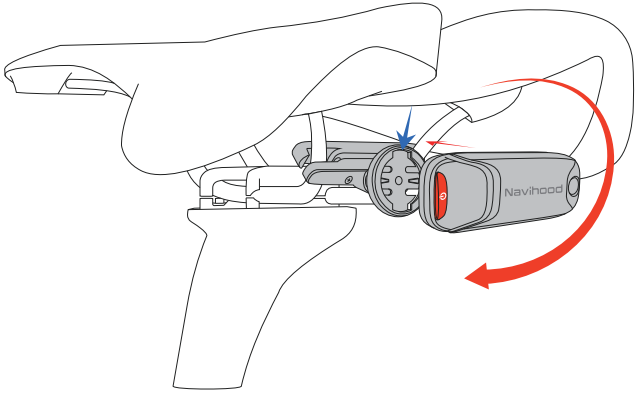
## ▪ Mounting Under the Saddle (Requires optional B2 saddle mount)



① Attach the plastic piece to the saddle rail.

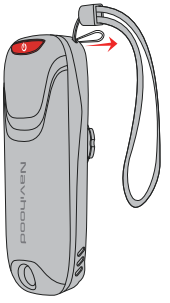


② Tighten the two M4*12 hex screws.

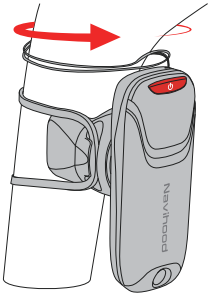



③ Align the taillight back clip with the mount slot, then rotate it clockwise 90° to lock. To remove, rotate counterclockwise.

## ▪ Using the Anti-Loss Lanyard




① Thread the lanyard through the B2 lanyard hole.




② Before riding, loop the lanyard around the seatpost for extra security.

# 5. Connecting B2 to the App / Creating Custom Patterns

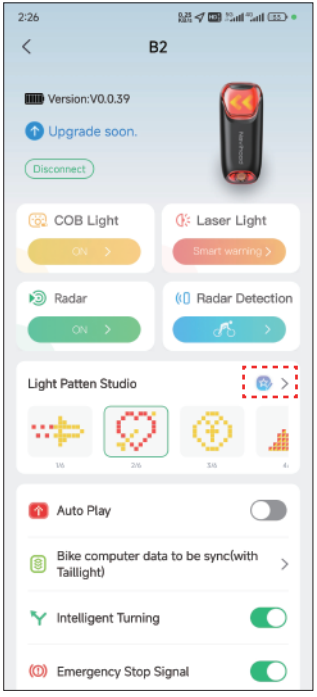
## ▪ App Download

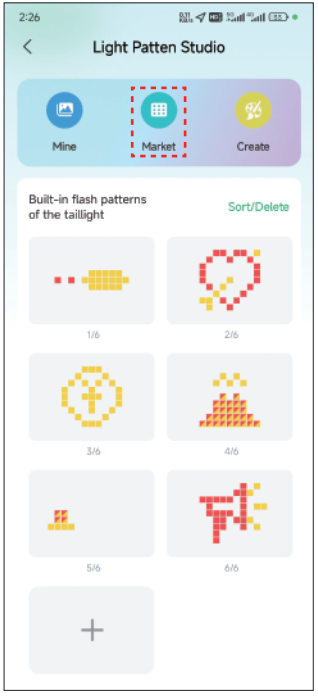
Search for "Navihood" in the iOS App Store or any Android app store to download.

App Download

## ▪ B2 Connection and Usage

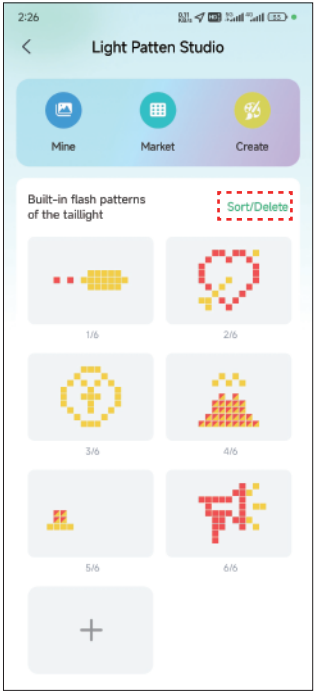
After installing and registering, long press the B2 taillight button to turn it on. In the app, go to Add Device to add the B2 taillight. Once connected, you can go to: Light Studio – Light Download to download fun images to display on B2. You can also go to: Create Light Patterns to use your creativity and share with other riders.

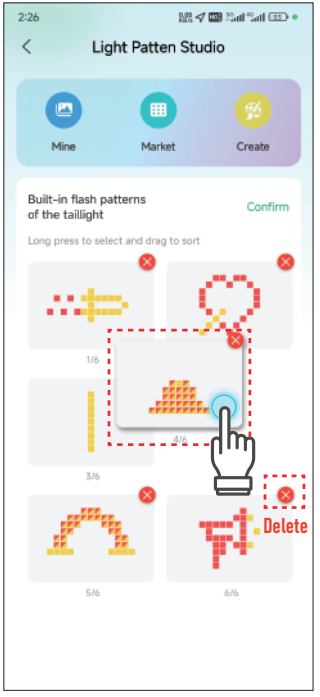



## ▪ B2 Pattern Management

B2 can store up to 10 images at the same time. If this number is exceeded, you need to first delete existing images in: Light Studio – Taillight Built-in Light Patterns before uploading new ones. You can also sort the display order of the light patterns here.



Please try not to use or to limit the use of full-screen, high-brightness image modes, as these will drain the battery quickly. For long battery life, please refer to the device's default image brightness and format; under these conditions, it can generally be used for about 17 hours. Because each self-designed image format and brightness may vary, it is not possible to provide an exact battery life figure.

## 6. Connecting B2 to the Bike Computer/ Displaying Turn Signals and Main Data

### • Note:

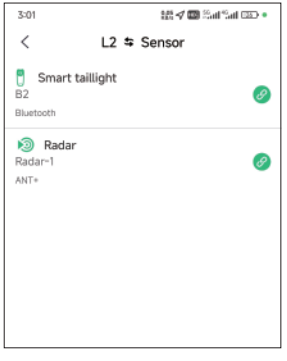
All Navihood bike computers support connecting to this taillight. Please update your bike computer to the latest software version in the app.

The taillight can only be connected to either the app or the bike computer at one time; it cannot be connected to both simultaneously.

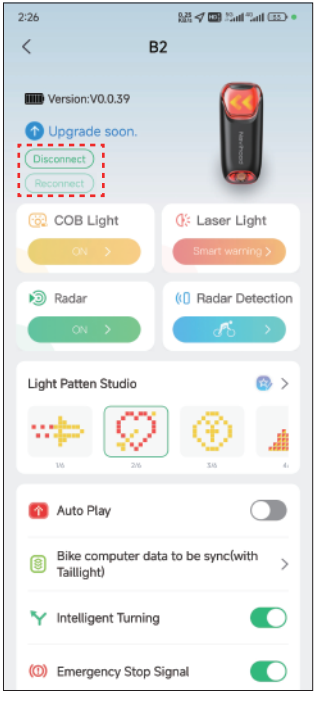
When you need to connect to the bike computer, please go to App – B2 and tap Disconnect, then pair by searching for B2 in App – Bike Computer – Sensors. When you need to connect to the app, please go to App – Bike Computer – Sensors – B2 and tap Disconnect, then reconnect B2 in the app.

When connected to the app, B2 will display: APP

When connected to the bike computer, B2 will display: BLE




When the bike computer is connected successfully, B2 will show the interface under App – Bike Computer menu.



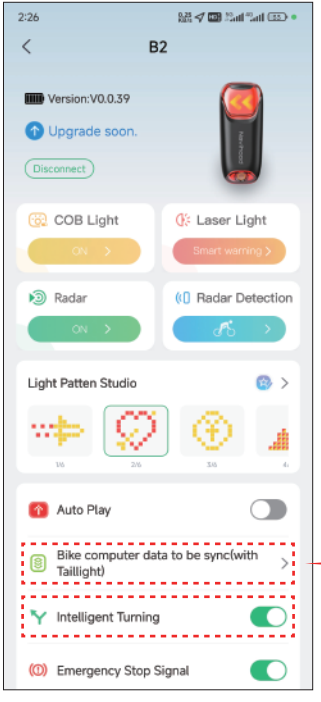

How to disconnect/reconnect B2 with the app

How to disconnect/reconnect B2 with the bike computer

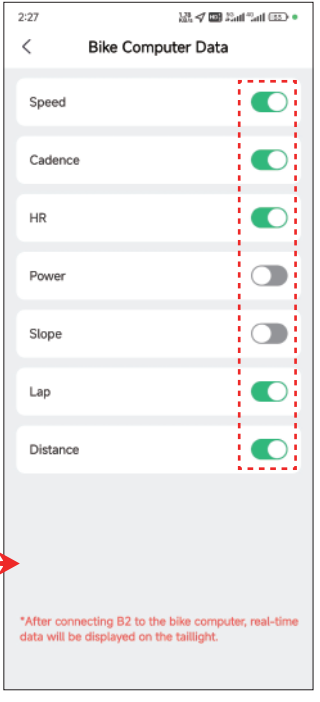
Connecting with the app is mainly for setting and managing the B2 taillight, and for creating fun images and text to send and store on B2. Connecting with the bike computer is mainly for displaying more interactive riding data. When you use different functions, you need to switch connections between the two. This can be done quickly through the app. If you have any questions, please refer to our official social media for B2 operation videos.

When B2 is connected to the bike computer and you start riding, the bike computer's speed, cadence, heart rate, power, altitude, distance, lap, and turn signal data will be displayed on B2. The turn signal function requires a bike computer with navigation capability.

You can use the app to turn on or off specific bike computer data types and the turn signal function. Please note: B2's custom display function can only be used with Navihood bike computers and cannot be used with other apps or bike computers.




B2 Smart Turn Signals ON/OFF

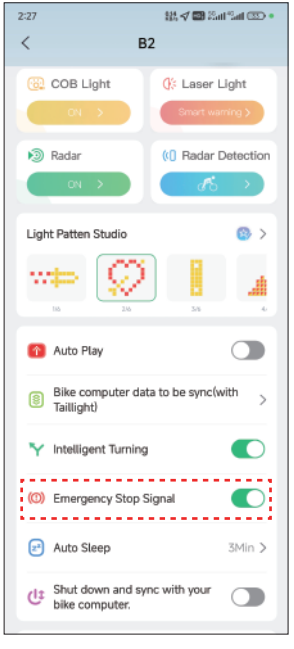



B2 Riding Data ON/OFF

## 7. Emergency Brake Warning Function

When you brake suddenly, B2 will display a flashing warning symbol: ! to alert vehicles behind you. While B2 is connected to the app, you can go to App – B2 – Brake Warning to turn this function ON or OFF. This feature uses a six-axis gyroscope for detection, but due to unpredictable road conditions such as muddy surfaces, excessive bumps, or falls, it may occasionally be triggered by mistake. If you do not prefer this function, you can manually turn it off.

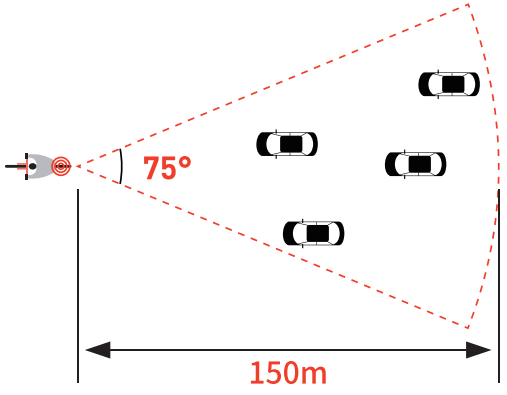
Brake warning alert on B2




Enable/disable brake warning in the app

## 8. Using the Radar Feature

The B2 radar uses the ANT+ transmission protocol, which is a public communication standard. It can be used with other brands of bike computers that support the standard public protocol. The effective detection distance is 150 meters, with a horizontal detection angle of 75 degrees, and it can detect up to 8 vehicles behind you at the same time. Vehicle speed must be above 10 km/h.




### ▪ Please note:

① On complex roads with many people, two-wheelers, motor vehicles, or stalls, the radar may not detect accurately.

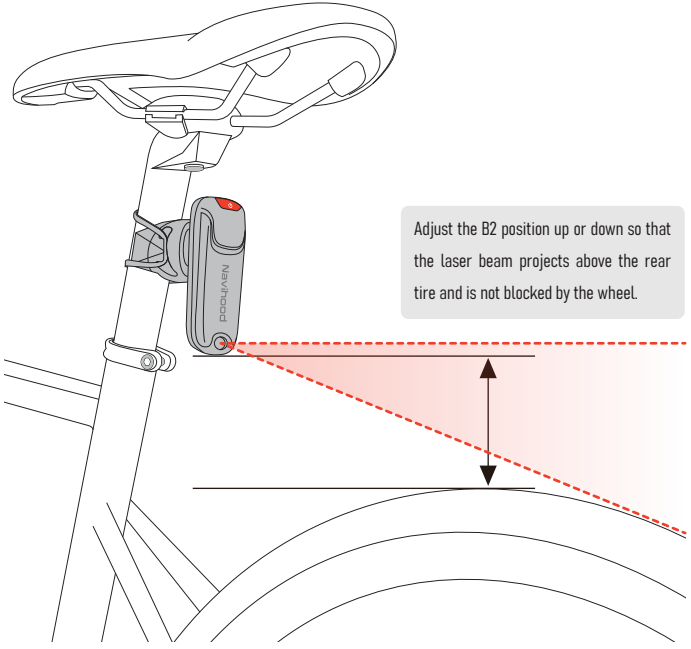
② There is a very small chance of false alerts due to interference from other radars on the road, such as traffic cameras and speed detectors that use the same frequency band.

③ Other factors, such as long articulated buses or large trucks, may cause multiple false detections. Radar is always an electronic device and there is a certain failure rate. It should only be used as a safety reference and not as the sole guarantee of safety. Always ride according to actual road traffic conditions.

# 9. Using the Laser Light Feature

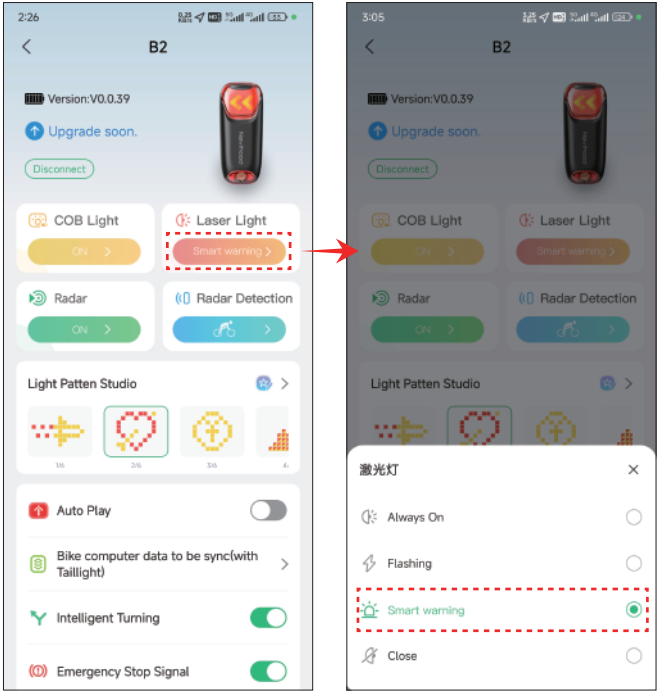
This laser light projects a red line on the ground, which, depending on your installation position, may appear about 5–8 meters behind your bike. This helps create a visible safe distance warning zone, providing extra safety for you on dark roads.

The output power (brightness) of laser lights is strictly regulated worldwide. This product uses a laser certified according to the U.S. FDA standards. On well-lit city streets, the laser line may not be very visible; please understand this limitation.




When B2 is connected to the app via Bluetooth, you can set the laser light to ON, OFF, or Auto (switching based on ambient light) and adjust its flashing mode.

Smart Warning Mode means the laser stays off during normal riding and only flashes to warn approaching vehicles when a car behind is moving too fast and may pose a danger.



## 10. Product Specifications & Warranty

① Weight: 72g, Dimensions: 98 × 39 × 19 mm (L × W × H)
② Bluetooth BLE 5.0 wireless transmission
③ Battery capacity: 1500mAh, up to 17 hours in normal mode, 5–8 hours in extra high brightness mode
④ Maximum brightness: 70 Lux, visible distance around 1 km
⑤ Waterproof rating: IPX7
⑥ Two-year warranty. Wearable parts such as mounting brackets, rubber bands, charging cables, and any man-made damage are not covered under warranty.

**Manufacturer:** Shenzhen Meilan Technology Co., Ltd.
**Address:** 5th Floor, Building B16, Hengfeng Industrial City, Hezhou, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
**Tel:** (+86) 0755 23159119
**Website:** www.meilancycling.com

## 11. Package Contents

B2 Radar Seatpost Mount × 1

B2 Radar Saddle Mount × 1

Triangle Seatpost Silicone Pad × 1

Square Seatpost Silicone Pad × 1

Round Seatpost Silicone Pad × 1

Type-C Charging Cable × 1

Rubber O-Rings × 3

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