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Ravemen NT301

RAVEMEN NT301 Bike Camera with Tail Light User Manual

Model: NT301

1. Product Overview

The RAVEMEN NT301 is an integrated bike camera and tail light designed to enhance cycling safety and record your rides. It features a 2K wide-angle camera, multiple tail light modes, smart accident detection, loop recording, and mobile connectivity via Wi-Fi.

2. Package Contents

Please check the box for the following items:

- RAVEMEN NT301 Bike Camera with Tail Light
- Seatpost Mount (ABM17)
- Saddle Rail Mount (ABM21)
- USB-C Charging Cable
- Tether
- User Manual (this document)
- 16GB Micro SD Card (pre-installed or included)



Image: Contents of the RAVEMEN NT301 package, including the device, two mounting options, USB-C cable, tether, and manual.

3. Controls and Indicators

The NT301 features intuitive controls and clear indicators for easy operation.

3.1. Buttons

- **Power/Mode Button:** Press and hold to power on/off. Short press to cycle through tail light modes or take a photo when recording.
- **Record Button:** Press to start/stop video recording.

3.2. LED Indicators

- **Status Indicator:** Displays device status (e.g., recording, charging, Wi-Fi).
- **Battery Indicator:**
  - Green: Battery > 25%
  - Red: Battery 0-25%
  - Flashing Red: Battery < 10%

4. Setup

4.1. Charging the Device

Before first use, fully charge the NT301. Connect the supplied USB-C cable to the charging port on the device and to a USB power source (e.g., computer, USB wall adapter). The battery indicator will show charging status and turn off when fully charged.

4.2. SD Card Installation

The NT301 supports Micro SD cards for video storage. A 16GB card is typically included. Insert the Micro SD card into

the designated slot until it clicks into place. Ensure the device is powered off before inserting or removing the SD card.

4.3. Mounting the NT301

The NT301 offers versatile mounting options for your bicycle.

- **Seatpost Mount:** Attach the seatpost mount to your bicycle's seatpost. Secure the NT301 to the mount by aligning and twisting until it locks.
- **Saddle Rail Mount:** Attach the saddle rail mount to the rails under your bicycle saddle. Secure the NT301 to the mount by aligning and twisting until it locks.



Image: The RAVEMEN NT301 shown mounted in three ways: under the bike saddle, on a round seatpost, and on an aero seatpost.

5. Operating Instructions

5.1. Power On/Off

Press and hold the Power/Mode button for approximately 2 seconds to turn the device on or off.

5.2. Video Recording

Press the Record button once to start video recording. The status indicator will show recording activity. Press the Record button again to stop recording. Videos are saved to the Micro SD card.



Image: Illustration showing the 138-degree wide field of view of the NT301 camera, capturing the road behind a cyclist, with a comparison of 2K and 1080p video quality.

5.3. Photo Capture

While recording video, short press the Power/Mode button to take a still photo. Photos are saved to the Micro SD card.

5.4. Tail Light Modes

When the device is on, short press the Power/Mode button (if not recording) to cycle through the available tail light modes: High, Low, Slow Flashing, Rapid Flashing, Breathing. The tail light can also operate independently of the camera.

5.5. Brake Sensing

The NT301 features a built-in brake sensor. When deceleration is detected, the tail light will automatically increase its brightness for approximately 2 seconds to alert following traffic.

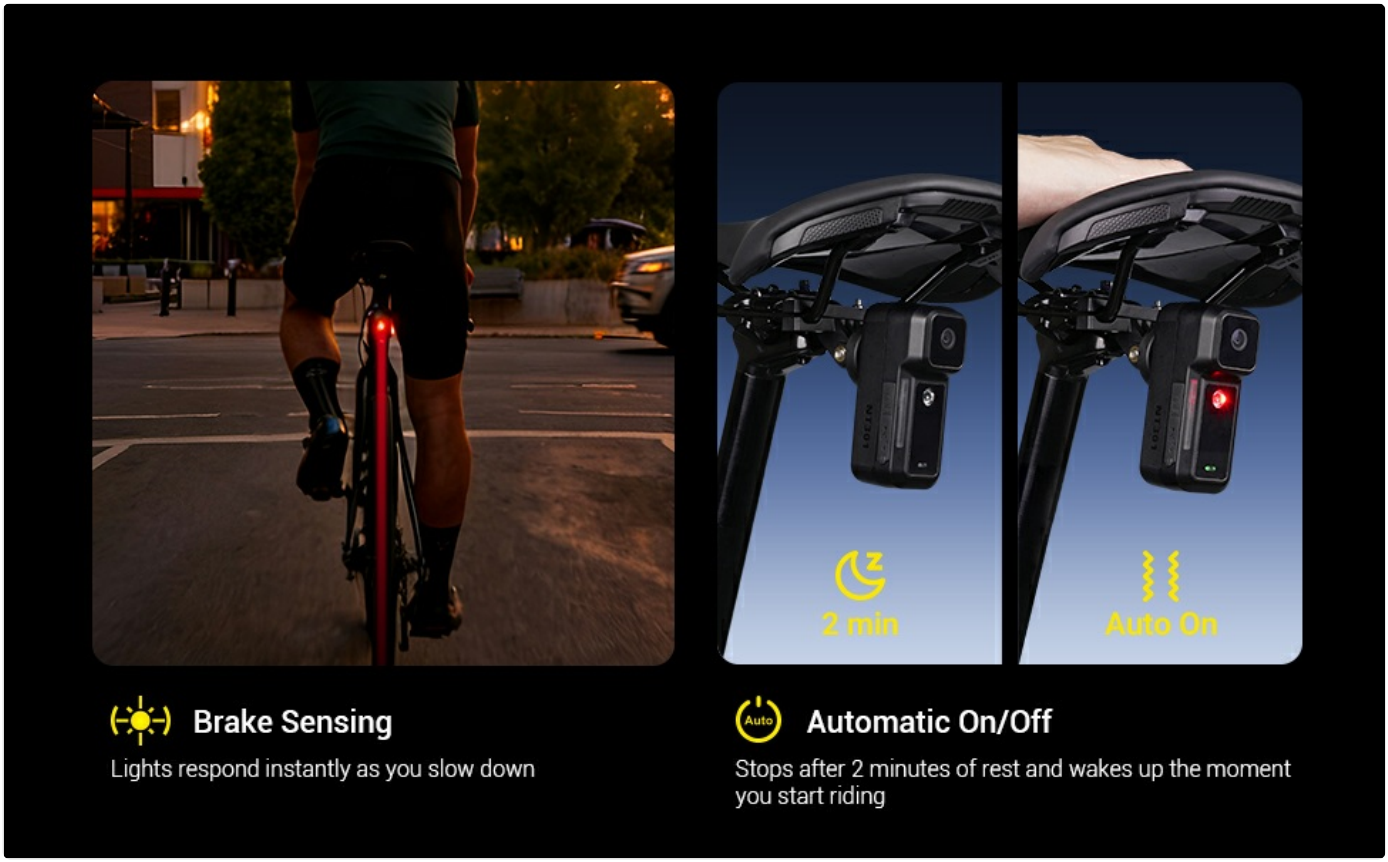


Image: A cyclist on a road with the NT301 tail light illuminated brightly due to brake detection. Also shows the auto on/off feature with the device turning off after 2 minutes of no movement and waking up on vibration.

5.6. Smart Accident Detection and Locking

In the event of a sudden impact or crash, the NT301 automatically detects the incident and locks the current video file. This prevents the footage from being overwritten during loop recording, preserving critical evidence.

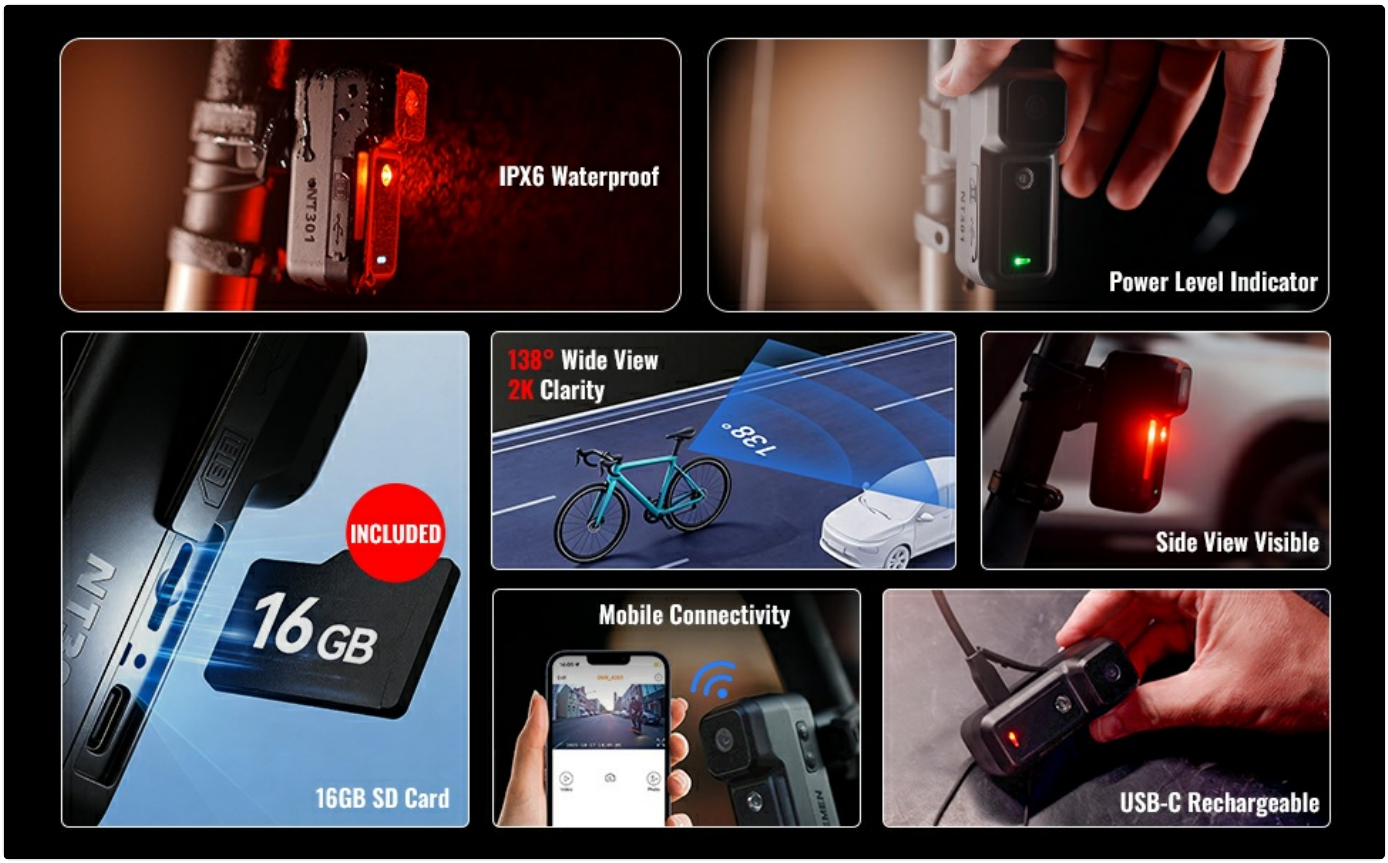


Image: A cyclist and their bike on the ground after a fall, with an overlay indicating the NT301 detected the accident and locked the video footage, showing a timeline of -10s, Accident, and +10s.

5.7. Automatic Loop Recording

The NT301 continuously records video. When the Micro SD card is full, the oldest files are automatically overwritten by new recordings, ensuring continuous operation without manual file management.



Image: An artistic representation of video footage looping from the NT301 device, illustrating how older files are overwritten to make space for new recordings.

5.8. Auto On and Off

The device features an intelligent auto on/off function. It will automatically turn off after 2 minutes of no movement and will wake up and resume operation when vibration (movement) is detected.

5.9. Mobile Connectivity (Wi-Fi)

Connect the NT301 to your smartphone via Wi-Fi using the "RoadCam" app (available on App Store and Google Play). This allows you to view live footage, review recorded videos, download files, and adjust settings.



Image: A smartphone displaying the RoadCam app interface, showing live camera feed from the NT301, which is depicted next to the phone with a Wi-Fi signal icon.

Your browser does not support the video tag.

Video: This video demonstrates the basic functions of the RAVEMEN NT301, including smart accident detection, loop recording, and mobile app connectivity for reviewing footage.

6. Maintenance

6.1. Cleaning

Wipe the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the camera lens and tail light cover are clean for optimal performance.

6.2. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, especially if stored for extended periods. Store in a cool, dry place.

6.3. Storage

When not in use for a long time, store the NT301 in a dry place at room temperature. Charge the device every 3-6 months to maintain battery health.

7. Troubleshooting

- **Device not turning on:** Ensure the device is fully charged.
- **Recording issues:** Check if the Micro SD card is properly inserted and has sufficient free space. Format the SD card if necessary (this will erase all data).
- **Wi-Fi connection problems:** Ensure Wi-Fi is enabled on your smartphone and the NT301. Try restarting both devices. Note that the NT301 connects via Wi-Fi, not Bluetooth.
- **Poor video quality:** Clean the camera lens. Ensure sufficient lighting conditions.
- **No audio in recordings:** Please note that the RAVEMEN NT301 does not record audio. This is a design feature.

8. Specifications

Feature	Detail
Model	NT301
Camera Resolution	2K (25 fps)
Camera Angle	138° Ultra-Wide
Tail Light Output	Up to 80 lumens
Battery Capacity	3230 mAh
Runtime (Camera & Light)	Up to 12 hours
Runtime (Light Only)	Up to 130 hours (Breathing mode)
Runtime (Recording Only)	Up to 13 hours
Water Resistance	Waterproof (IPX6)
Storage	Micro SD Card (16GB included)
Connectivity	Wi-Fi (for app connection)
Weight	4.64 ounces



Image: The RAVEMEN NT301 device next to a large "3230 mAh" graphic, accompanied by a table detailing brightness, run times with the camera on, and run times with the camera off for various light modes and recording-only.

9. Warranty Information

The RAVEMEN NT301 comes with a **2-Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official RAVEMEN website or contact customer support.

10. Customer Support

If you encounter any issues or have questions regarding your RAVEMEN NT301, please visit the officiaRavemen Store on Amazon or contact RAVEMEN customer service through their official channels for assistance.

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