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iGPSPORT SR mini

iGPSPORT SR mini Bicycle Rear Radar and Tail Light User Manual

Model: SR mini | Brand: iGPSPORT

1. Introduction

The iGPSPORT SR mini is a compact and powerful bicycle rear radar and tail light designed to enhance cycling safety and awareness. It integrates advanced radar detection with a bright tail light, providing real-time warnings of approaching vehicles and offering various lighting modes for different riding conditions. This manual provides detailed instructions for the proper setup, operation, and maintenance of your SR mini device.



The iGPSPORT SR mini is a compact, oval-shaped device with bright red LED lights around its perimeter and a central black panel featuring the iGPSPORT logo. A small blue indicator light is visible at the bottom.

2. Key Features

- **Radar Multi-dimensional Warning:** Monitors up to 8 targets simultaneously, providing visual and audible warnings on compatible cycle computers.
- **Compact and Lightweight Design:** Weighs approximately 50g with a size reduction of over 35% compared to conventional taillights.
- **Long-distance Radar Detection:** Detects vehicles up to 160m from the rear, with high-frequency flashing for warning.
- **Smart Control via Cycle Computer:** Direct access to light control, battery status, and estimated riding time from compatible iGPSPORT cycle computers.
- **High Brightness Brake Light:** Instantly illuminates with high brightness during sudden braking to prevent rear-end collisions.
- **Radar Corner Detection:** 45° detection angle to warn of vehicles in blind spots during turns.
- **Cycle Computer Synchronized Power Off:** Automatically turns off when the ride ends, eliminating manual operation.
- **Diverse Light Modes:** Equipped with 8 types of light modes for various riding scenarios, switchable with a single touch.
- **Environmental Light Automatic Adjustment:** Adjusts brightness automatically based on ambient light when linked with a cycle computer's light sensor.
- **IPX7 Waterproof Rating:** Ensures reliable performance in various weather conditions.

3. Installation

3.1 Package Contents

Before installation, please verify that all components are present:

- SR mini Main Unit x1
- M30 Saddle Mount (with screws) x1
- Quick Start Guide x1
- Charging Cable x1
- Fixing Tether x1
- Hex Wrench x1



This image displays the complete contents of the iGPSPORT SR mini package, including the main unit, saddle mount, quick start guide, charging cable, fixing tether, and hex wrench.

3.2 Mounting the Device

The SR mini is designed for seatpost mounting. Follow these steps for secure installation:

1. Select a suitable position on your bicycle's seatpost, ensuring the SR mini has a clear line of sight to the rear.
2. Attach the M30 Saddle Mount to the seatpost using the provided screws and hex wrench. Ensure it is tightened securely to prevent movement during rides.
3. Align the SR mini main unit with the mount and twist or slide it into place until it clicks, indicating a secure connection.
4. For added security, use the fixing tether to further secure the device to the seatpost.



This diagram illustrates the straightforward process of attaching the SR mini to a bicycle's seatpost, showing the device being twisted into its mount.

4. Operation

4.1 Power On/Off

To power on the SR mini, press and hold the power button located on the device until the lights illuminate. To power off, press and hold the button again until the lights turn off. When linked with a compatible iGPSPORT cycle computer, the SR mini can automatically power off when the ride ends.

4.2 Light Modes

The SR mini features 8 distinct light modes to suit various riding conditions and preferences. You can switch between modes with a single press of the power button (or via a compatible cycle computer). The modes include:

- High Brightness
- Medium Steady
- Day Flash
- Night Flash
- Comet Flash
- Waterfall Flash
- Radar Only Mode
- Warning Mode (activated during braking)



This graphic presents the eight distinct light modes available on the SR mini, along with their respective brightness levels and estimated battery life with the radar function enabled or disabled.

4.3 Radar Functionality

The SR mini's radar system detects approaching vehicles from behind up to 160 meters away. When a vehicle is detected, the device sends real-time data to your paired cycle computer or smartphone app. The display will show the number of approaching vehicles and their relative distance, categorizing them as high-risk (approaching within 3

seconds) or medium-risk. The taillight will also flash at a high frequency to alert the approaching vehicle.



This image illustrates the real-time warning feature of the SR mini. A cyclist is shown riding at night with the taillight active. The accompanying cycle computer screen displays a map with vehicle detection, speed, heart rate, and power data, along with visual indicators for high, medium, and low-risk approaching vehicles.

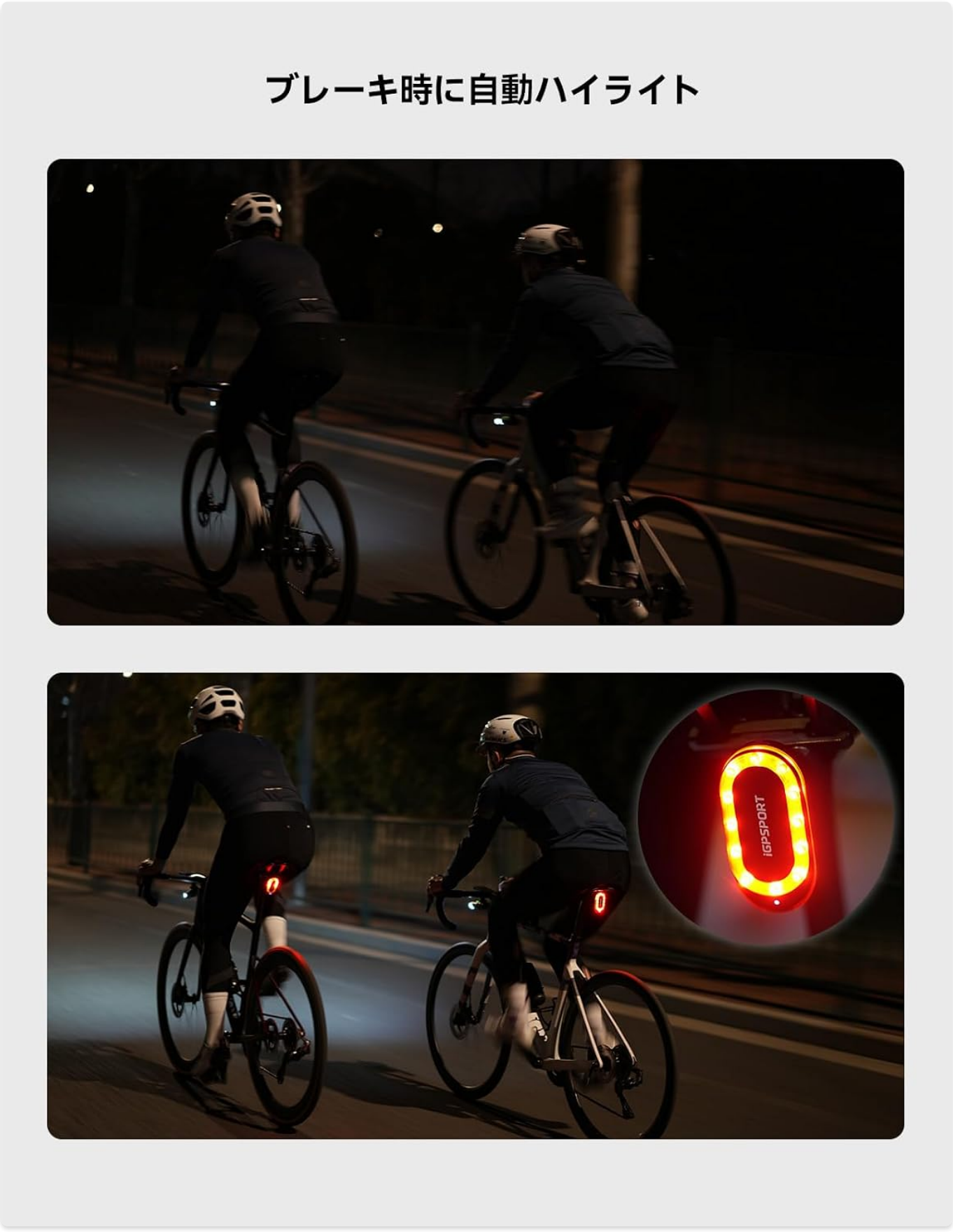


This visual explains the SR mini's extensive monitoring capabilities. The top panel shows the radar detecting vehicles up to 160 meters behind the cyclist. The bottom panel demonstrates the 45-degree detection angle, crucial for identifying vehicles approaching from blind spots during turns.

4.4 Brake Light Function

The SR mini is equipped with an intelligent brake detection system. When you apply the brakes, the taillight will automatically switch to a high-brightness warning mode, providing a clear signal to vehicles and riders behind you,

significantly reducing the risk of rear-end collisions.



This image set highlights the automatic brake light feature. The top image shows cyclists with normal taillights. The bottom image, with an inset close-up, shows the SR mini illuminating brightly upon braking, providing enhanced visibility to following traffic.

5. Connectivity and Smart Functions

5.1 Pairing with Cycle Computer/Smartphone

The SR mini supports Bluetooth and ANT+ protocols for seamless connection with compatible iGPSPORT cycle computers (BSC200S, BSC300T, iGS630S, iGS800, BiNavi) and the iGPSPORT smartphone application. Refer to your cycle computer or app's manual for specific pairing instructions. Once paired, you can:

- Control light modes directly from the cycle computer screen.
- View real-time battery percentage and estimated riding time.
- Receive real-time radar warnings on both your cycle computer and smartphone.



This image demonstrates the seamless integration of the SR mini with iGPSPORT cycle computers. It shows a cyclist with the taillight and a cycle computer displaying options to control the light mode, check battery percentage, and manage smart light sensing features directly from the computer's interface.



This image showcases the multi-device compatibility of the SR mini. The radar detection information, including approaching vehicles, is simultaneously displayed on both a dedicated iGPSPORT cycle computer and a smartphone application, providing comprehensive awareness.

5.2 Automatic Light Adjustment

When linked with a cycle computer equipped with a light sensor, the SR mini can automatically adjust its brightness based on ambient light conditions. For example, it will automatically turn on when entering a tunnel at night and turn off when exiting during the day, providing a hands-free and smart riding experience.

6. Battery and Power Management

6.1 Charging

The SR mini is equipped with a built-in 1100mAh rechargeable battery. Use the provided Type-C charging cable to charge the device. Connect the cable to the SR mini's charging port and a standard USB power source. The charging indicator light will show the charging status.

6.2 Automatic Sleep Mode

To conserve battery life, the SR mini features an automatic sleep mode. When the device detects no movement for a certain period (default 120 seconds, customizable via app), it will enter a low-power sleep state. It will instantly wake up and resume operation when movement is detected or a button is pressed.



This image highlights the automatic sleep mode feature. The SR mini enters sleep mode when stationary to conserve power and instantly resumes operation when riding begins or a button is pressed, extending battery life.

7. Specifications

Attribute	Detail
Model Name	SR mini

Dimensions (excluding mount)	77 x 37 x 19 mm
Weight	Approx. 50 g
Material	Plastic
Mounting Type	Seatpost Mount
Waterproof Level	IPX7
Battery Capacity	1100 mAh
Charging Port	Type-C
Communication Protocols	Bluetooth, ANT+
Number of Light Modes	8
Taillight Visible Distance	Max 1.2 km
Radar Detection Distance	160 m
Radar Detection Angle (Horizontal)	±22.5°
Radar Detection Angle (Vertical)	±17.5°
Detectable Target Relative Speed	4-110 km/h
Max Radar Targets	8

8. Care and Maintenance

Proper care and maintenance will ensure the longevity and optimal performance of your iGPSPORT SR mini.

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the surface or internal components.
- **Water Exposure:** The SR mini is IPX7 waterproof, meaning it can withstand immersion in up to 1 meter of water for 30 minutes. However, it is not designed for prolonged underwater use. Ensure the charging port cover is securely closed before exposure to water.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, ensure the battery is partially charged (around 50%) to prevent deep discharge.
- **Battery Care:** Avoid fully discharging the battery frequently. Charge the device regularly, even if not in use, to maintain battery health.
- **Mounting:** Periodically check the tightness of the saddle mount screws to ensure the device remains securely attached during rides.

9. Troubleshooting

If you encounter issues with your iGPSPORT SR mini, please refer to the following common troubleshooting steps:

- **Device Not Powering On:** Ensure the battery is charged. Connect the device to the charging cable and a power

source for at least 30 minutes. If it still doesn't power on, try a different charging cable or power adapter.

- **Cannot Pair with Cycle Computer/App:**
  a. Ensure the SR mini is powered on and within range of your cycle computer or smartphone.
  b. Check that Bluetooth and/or ANT+ are enabled on your cycle computer/smartphone.
  c. Verify that your cycle computer model is compatible with the SR mini (iGPSPORT BSC200S/BSC300T/iGS630S/iGS800/BiNavi).
  d. Try restarting both the SR mini and your cycle computer/smartphone.
  e. If the issue persists, try unpairing and re-pairing the device.
- **Radar Not Detecting Vehicles or False Detections:**
  a. Ensure the SR mini is mounted correctly and has a clear, unobstructed view to the rear.
  b. Check for any dirt or debris on the radar sensor area.
  c. Ensure the device's firmware is up to date via the iGPSPORT app.
  d. Environmental factors (e.g., heavy rain, dense fog, highly reflective surfaces) can affect radar performance.
- **Light Not Working or Flickering:** Check battery level. If the issue persists after charging, contact customer support.
- **Automatic Sleep Mode Not Working:** Ensure the feature is enabled in the iGPSPORT app settings.

If these steps do not resolve the issue, please contact iGPSPORT customer support for further assistance.

10. Warranty and Support

The iGPSPORT SR mini comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official iGPSPORT website for detailed warranty terms and conditions.

For technical support, product inquiries, or warranty claims, please contact iGPSPORT customer service through their official website or the retailer from whom you purchased the product. Keep your proof of purchase handy when contacting support.

Official iGPSPORT Store: iGPSPORT Amazon Store

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