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iGPSPORT VS500

iGPSPORT VS500 Smart Bike Light User Manual

Brand: iGPSPORT | **Model:** VS500

1. Introduction

This manual provides detailed instructions for the proper use, installation, and maintenance of your iGPSPORT VS500 Smart Bike Light. Please read this manual thoroughly before operating the device to ensure optimal performance and safety.



Image 1.1: The iGPSPORT VS500 Smart Bike Light shown with its included handlebar mount.

2. Package Contents

Verify that all items are present in your package:

- 1 x VS500 Bike Light
- 1 x Handlebar Mount
- 1 x User Manual
- 1 x Type-C Charge Cable
- 1 x Rubber band
- 1 x Flexible mounting base
- 3 x Hex wrench
- 2 x Screw

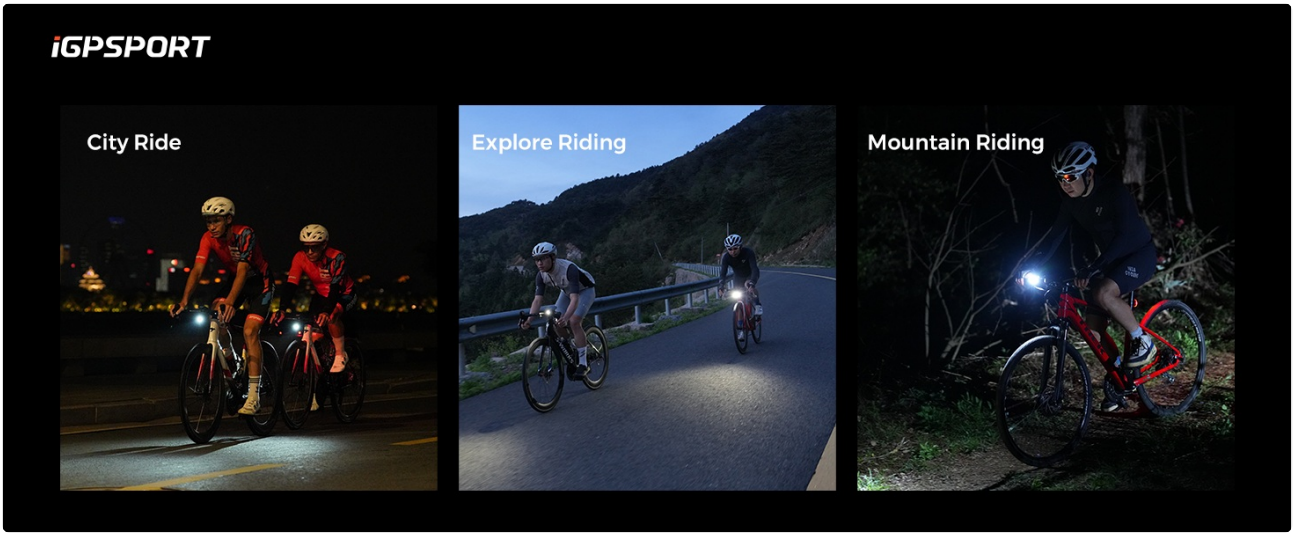

Image 2.1: Visual representation of the iGPSPORT VS500 package contents, including the light, mount, and accessories.

3. Specifications

Feature	Detail
Dimensions	108 x 31 x 29 mm
Weight	157g
Body Material	Aluminum Alloy
Charge Port	Type-C
Charge Time	2 Hours
Battery Capacity	4000mAh
Battery Life (High Light)	8 Hours
Battery Life (Medium Light)	12 Hours
Battery Life (Day Flash)	60 Hours
Battery Life (Night Flash)	130 Hours
Battery Life (Custom Mode)	35 Hours
Charging Temperature	0°C ~ 45°C
Operating Temperature	-10°C ~ 50°C
Water Resistance	IPX6 Waterproof
Mounting Type	Handlebar Mount (Round or Integrated)
Brightness	500 Lumens (VS500 model)



Image 3.1: The VS500 light highlighting its 4000mAh battery capacity and maximum runtime.

4. Setup and Installation

4.1 Initial Activation

For first use, the device must be activated by connecting the charging cable to the light and a power source.

4.2 Mounting the Bike Light

The VS500 bike light can be installed on or hung under the handlebars. It is compatible with both round and integrated handlebars, utilizing a Garmin-compatible mount system for stability.

1. Attach the handlebar mount to your bicycle's handlebar using the provided screws and hex wrenches. Ensure it is securely fastened.
2. Align the VS500 bike light with the mount and twist to lock it into place. The mount supports both normal and inverse installations.



Image 4.1: Diagram illustrating the easy installation process of the VS500 light on a handlebar, showing compatibility with Garmin mounts and Type-C port.

5. Operating Instructions

5.1 Power On/Off

- To turn on the light, press and hold the power button until the light illuminates.
- To turn off the light, press and hold the power button again until the light turns off.

5.2 Light Modes

The VS500 offers six distinct light modes for various cycling conditions:

- **High Light:** 500 lumens, approximately 8 hours runtime.
- **Medium Light:** 250 lumens, approximately 12 hours runtime.
- **Low Light:** 100 lumens, approximately 35 hours runtime.
- **Day Flash:** 250 lumens, approximately 60 hours runtime. Designed for daytime visibility.
- **Night Flash:** 120 lumens, approximately 130 hours runtime. Designed for nighttime visibility.
- **SOS:** Emergency signal, approximately 24 hours runtime.

Press the power button briefly to cycle through the different light modes.

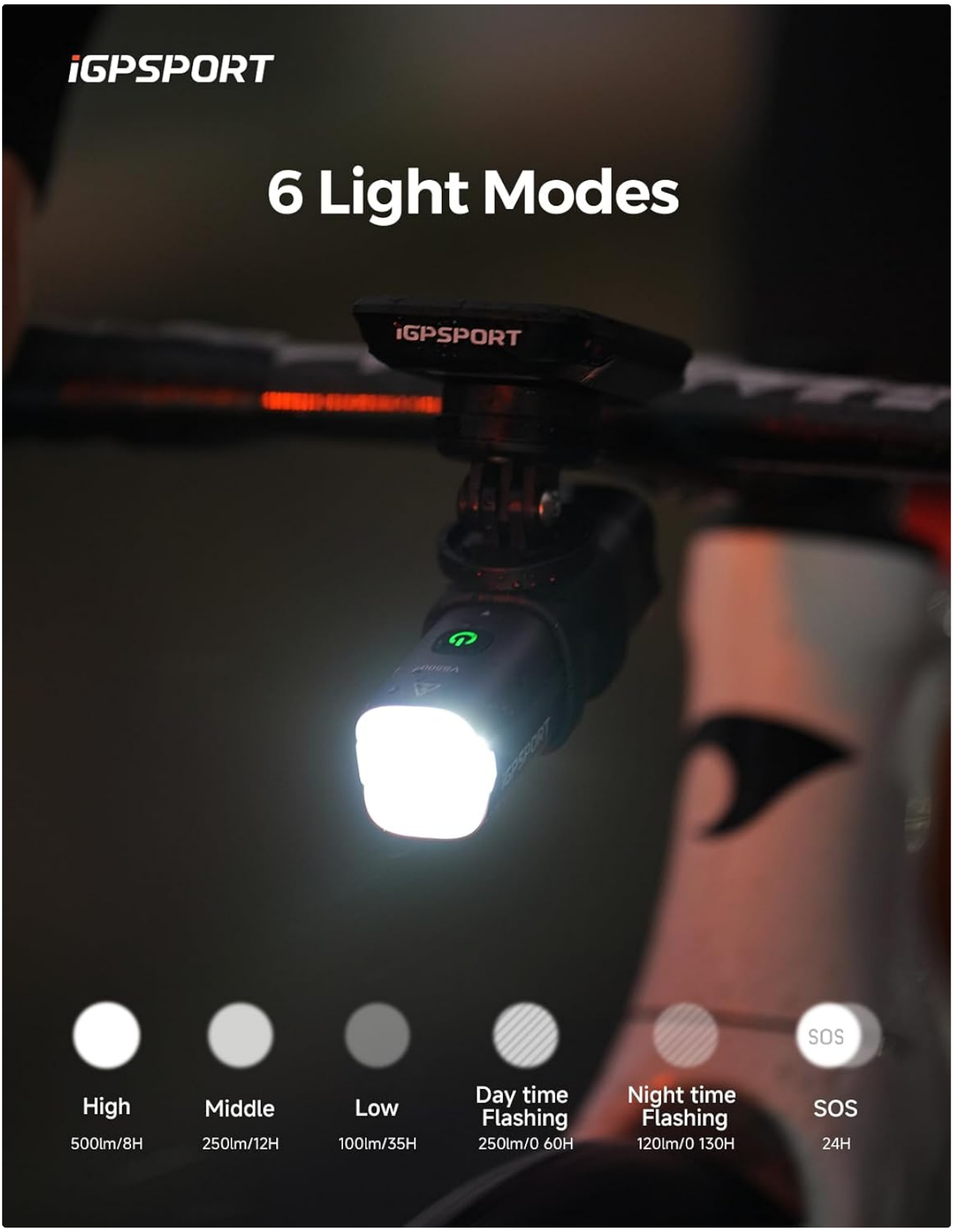

Image 5.1: The VS500 light showcasing its six operational modes and corresponding brightness/runtime.

5.3 Smart Functions

The VS500 incorporates intelligent features to enhance user experience and battery efficiency:

- **Auto On/Off:** The light automatically activates when cycling begins and enters sleep mode when cycling stops.
- **Ambient Light Sensing:** The light automatically adjusts its mode based on ambient light conditions, turning off in sufficient light and switching to an appropriate lighting mode in dark environments or tunnels.
- **Anti-Glare Beam:** The optical design reduces glare for oncoming traffic while maintaining effective illumination for the rider.

- **Speed-Adjusting Brightness:** Brightness automatically increases with riding speed and decreases when speed reduces.



Image 5.2: The VS500 light's smart auto turn on/off function, activating with movement and deactivating when stationary.

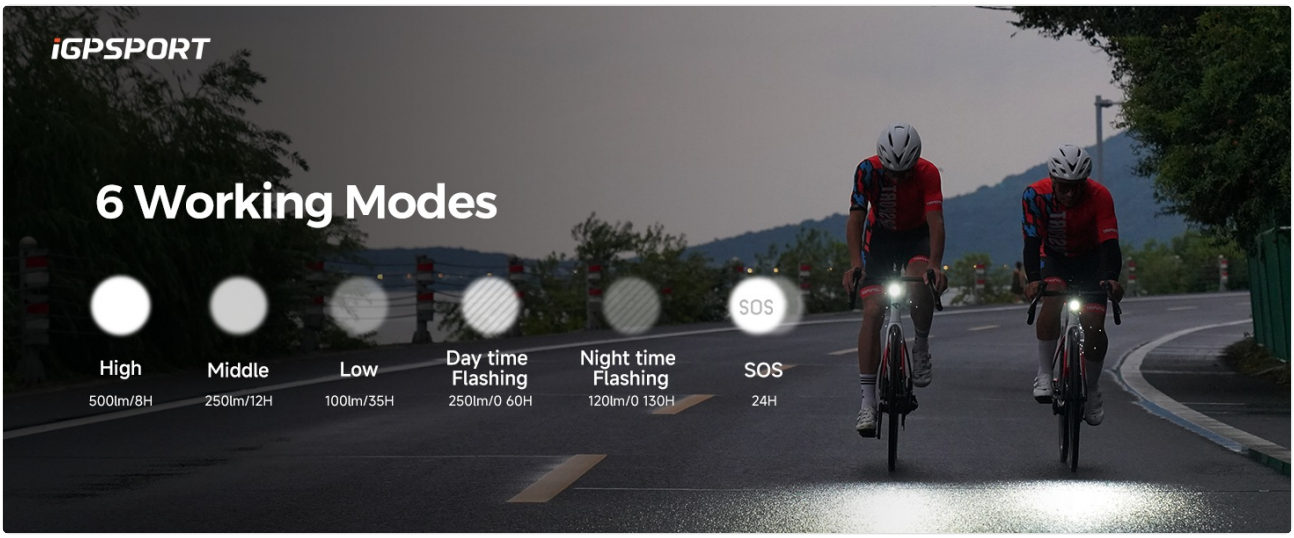

Image 5.3: The VS500 light's smart auto brightness adjustment feature, increasing with riding speed and decreasing when slowing down.



Image 5.4: Visual comparison of the VS500's anti-glare beam versus a typical bike light, highlighting enhanced safety.

5.4 Charging and Power Bank Function

The VS500 is equipped with a 4000mAh battery and charges via a Type-C port. A full charge takes approximately 2 hours. The light cannot be switched on while charging.

The light also features a discharger function, allowing it to act as a power bank to charge other cycling equipment or devices in emergencies. A reverse charging cable must be purchased separately for this function.



Image 5.5: The VS500 light connected for Type-C charging and also shown charging a smartphone via its power bank function.

5.5 Battery Level Indicator

The power button on the VS500 doubles as a battery level indicator:

- **Green Light Always On:** Battery level > 20% (or Full Charged if plugged in).
- **Green Light Flashes (Breathing Pattern):** In Charging.
- **Red Light Always On:** 10% < Battery Life ≤ 20%.
- **Red Light Flashes Slowly:** 1% < Battery Life ≤ 10%.
- **Red Light Flashes (Breathing Pattern):** Low Battery Level.

- **Red Light Always On:** System Error.
- **Green Light Flashes Fast:** Firmware Upgrade.
- **Green Light Flashes Three Times:** After Reset.

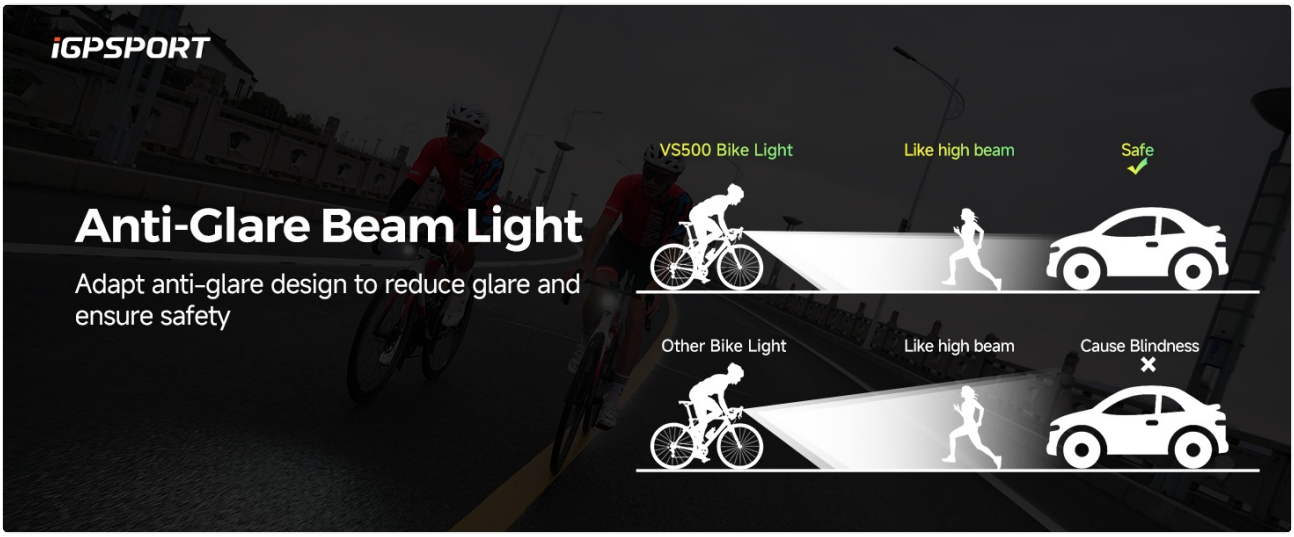

Image 5.6: Table detailing the various states of the battery indicator light on the VS500.

5.6 App and Bike Computer Connectivity

The VS500 can connect to the official iGPSPORT smartphone application and compatible iGPSPORT bike computers (BSC300, BSC300T, iGS630S, iGS800). This allows for real-time battery level monitoring, light mode settings, smart function configuration, and firmware updates.



Image 5.7: The VS500 light's battery level displayed on both the iGPSPORT app and a compatible bike computer.



Image 5.8: The iGPSPORT app interface showing options for user guide, battery display, battery life prediction, light mode settings, smart function configuration, and firmware detection.

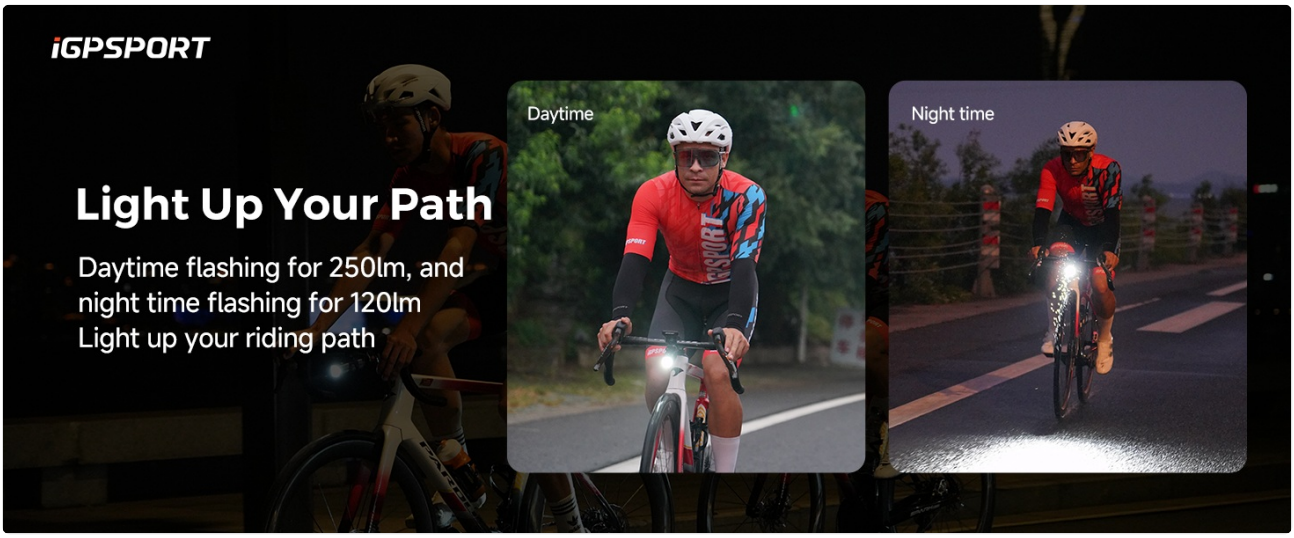

Image 5.9: The iGPSPORT bike computer interface displaying connection status and battery life for the VS500 light.

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Video 5.1: This video demonstrates the iGPSPORT TL50 Bike Taillight, which can be synced with the VS500 headlight via a compatible iGPSPORT bike computer for seamless control and enhanced cycling safety.

6. Maintenance

6.1 Cleaning

Wipe the light with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the device's finish or internal components.

6.2 Storage

When not in use for extended periods, store the light in a cool, dry place. It is recommended to charge the battery to approximately 50% before long-term storage to preserve battery health.

6.3 Water Resistance

The VS500 is IPX6 waterproof, meaning it can withstand heavy rainfall and splashes. However, it is not designed for submersion in water.



Image 6.1: The VS500 light operating effectively under heavy rain, showcasing its IPX6 waterproof capability.

6.4 Drop Resistance

The device is designed to withstand drops from up to 1.2 meters.



Image 6.2: The VS500 light depicted on a rugged surface, highlighting its 1.2-meter anti-drop durability.

7. Troubleshooting

- **Light not turning on:** Ensure the device is charged. If it's the first use, connect it to a power source for activation.
- **Battery not charging:** Check the Type-C cable and power adapter. Ensure connections are secure.
- **Smart functions not working:** Verify that the light is properly connected to the iGPSPORT app or a compatible bike computer. Check app settings for smart function activation.
- **Connectivity issues:** Ensure Bluetooth is enabled on your smartphone or bike computer. Try unpairing and re-pairing the device.
- **Light unexpectedly turns off:** The auto-off function may be active if the bike has been stationary for two minutes. If not, check battery level.

8. Warranty and Support

8.1 Warranty Information

The iGPSPORT VS500 Smart Bike Light comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

8.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your iGPSPORT VS500 Smart Bike Light, please visit the official iGPSPORT website or contact their customer service department. Refer to the product packaging or official website for the most current contact information.
You can also visit the iGPSPORT Store on Amazon for additional product information and support resources.

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