

Weuaste BSD01

Weuaste BSD01 Motorcycle Blind Spot Detection System Instruction Manual

Model: BSD01 | Brand: Weuaste

1. INTRODUCTION

The Weuaste BSD01 Motorcycle Blind Spot Detection System is designed to enhance rider safety by providing advanced warning of vehicles in blind spots and approaching from the rear. Utilizing 24GHz millimeter-wave radar technology, the system offers timely visual alerts through LED indicators, helping riders identify potential hazards in various riding conditions.

This manual provides detailed instructions for the installation, operation, and maintenance of your BSD01 system.

2. PRODUCT FEATURES

- **Advanced Radar Technology:** Employs cutting-edge 24GHz multi-antenna millimeter-wave radar for exceptional coverage and accuracy.
- **Visual Alert System:** Provides timely visual alerts through LED indicators to identify potential hazards.
- **Three-Directional Detection:** Features simultaneous detection of approaching vehicles within its operational range.
- **Speed-Activated Alarm:** Alarms are triggered only when the detected target's speed is greater than 10km/h to reduce cluttered signal interference.
- **All-Weather Performance:** Operates effectively during rain, fog, or nighttime riding, maintaining accurate rear traffic information regardless of weather conditions.
- **Comprehensive Blind Spot Monitoring:** Precisely monitors left and right rear blind zones with an impressive 30-meter detection range and 130° rear blind spot coverage.
- **Dual-Stage Real-Time Warning:** Offers a two-stage warning system for proactive hazard detection.
- **Rugged Construction:** Features IP67 certification (fully waterproof, dustproof, and fogproof) and extreme temperature tolerance (-40°F to 176°F / -40°C to 80°C).

- **Simplified ACC Power Connection:** Designed for easy connection to the motorcycle's ACC power line, ensuring automatic power on/off with the motorcycle without draining the battery.

3. PACKAGE CONTENTS

The Weuaste BSD01 system package includes the following components:

- Weuaste Motorcycle BSD Blind Spot Detection System (Main Unit)
- Radar Sensor
- BSD Bracket
- LED Indicators (Left and Right)
- Power Harness
- Double-sided Adhesive
- Installation Tools and Screws
- Binding Straps (x10)
- Electrical Tape



Figure 1: All components included in the Weuaste BSD01 package.

4. INSTALLATION GUIDE

Follow these steps for proper installation of the Weuaste BSD01 system. A detailed installation video is also provided below.

4.1 Power Connection

1. **Connect Negative Wire:** Connect the black power cord from the system to the negative electrode of the motorcycle battery. Ensure a secure connection.
2. **Connect ACC Wire:** Identify the motorcycle's ACC (Accessory) line. This is a power source that turns on and off with your motorcycle's ignition. Connect the red power cord from the system to the ACC line. This ensures the system powers on and off automatically with your motorcycle, preventing battery drain.
3. **Connect Main Unit:** Align the arrows on the power cord connector and the main unit connector, then firmly tighten them to secure the connection.



Figure 2: Diagram illustrating the ACC power connection for the BSD01 system.

4.2 Sensor and Indicator Mounting

4. **Mount Radar Sensor:** Securely mount the radar sensor at the rear of the motorcycle using the provided BSD bracket and screws. Ensure it has a clear, unobstructed view of the rear blind zones.
5. **Mount LED Indicators:** Attach the left and right LED indicators to your motorcycle's mirrors or another easily visible location using the double-sided adhesive. Ensure they are positioned to provide clear visual alerts without obstructing your view.

Your Safety, We Really Care!



Figure 3: Example placement of LED indicators on mirrors and radar sensor at the rear.

4.3 Wiring Management

Route all cables neatly and securely using the provided binding straps and electrical tape. Avoid placing wires near hot engine parts or moving components. Ensure all connections are tight and protected from the elements.

4.4 Installation Videos

Your browser does not support the video tag.

Video 1: Detailed installation guide for the Weuaste BSD01 Motorcycle Blind Spot Detection System.

Your browser does not support the video tag.

Video 2: Demonstration of ACC power connection for the Weuaste BSD01 system.

Your browser does not support the video tag.

Video 3: Unboxing and overview of the Weuaste BSD01 Motorcycle Blind Spot Detection System components.

5. OPERATING INSTRUCTIONS

Once installed and connected to the ACC power, the Weuaste BSD01 system will automatically

activate when your motorcycle is turned on. The system continuously monitors the rear blind zones and provides alerts as follows:

- **Visual Alerts:** LED indicators will illuminate to warn you of vehicles detected in your blind spots.
- **Detection Range:** The system detects objects within a 30-meter range.
- **Speed Threshold:** Alarms are only triggered when the detected target's speed exceeds 10km/h to prevent false alarms from stationary objects or slow-moving traffic.



Figure 4: Illustration of the 30-meter detection zone and 130° rear blind spot coverage.

6. WORKING CONDITIONS AND FUNCTIONALITY

The BSD01 system is designed for reliable performance in various conditions:

- **Weather Resilience:** The IP67 waterproof, dustproof, and fogproof construction ensures reliable operation in rain, fog, and snow.
- **Temperature Tolerance:** Operates effectively in extreme temperatures ranging from -40°F to 176°F (-40°C to 80°C).
- **Accident Prevention:** By monitoring blind spots and providing rear collision warnings, the system actively helps reduce the risk of accidents during lane changes.



Figure 5: Icons representing radar warning, 24GHz technology, wide angle detection, and IP67 waterproofing.

7. TROUBLESHOOTING

If you experience issues with your Weuaste BSD01 system, consider the following:

- **No Power:** Check all power connections, especially the ACC and battery terminals, to ensure they are secure and correctly wired.
- **No Alerts:** Verify that the radar sensor is not obstructed and is mounted within the recommended height and angle. Ensure the motorcycle speed is above 10km/h for alarms to trigger.
- **False Alarms:** Ensure the sensor is correctly angled and not picking up interference from vehicle parts or external objects.
- **System Malfunction:** If problems persist, refer to the warranty and support section for assistance.

8. SPECIFICATIONS

- **Item Weight:** 10.5 ounces
- **Product Dimensions:** 1.96 x 0.7 x 1.96 inches
- **Item Model Number:** Weuaste BSD01
- **Display Type:** LED
- **Compatible Devices:** Motorcycle
- **Frequency Bands Supported:** 24 GHz
- **Power Source:** Corded Electric
- **IP Rating:** IP67 (Waterproof, Dustproof, Fogproof)
- **Temperature Tolerance:** -40°F to 176°F (-40°C to 80°C)
- **Detection Range:** 30 meters
- **Rear Blind Spot Coverage:** 130°
- **UPC:** 635408971722

9. WARRANTY AND SUPPORT

Weuaste offers a 12-month warranty and technical support for the BSD01 Motorcycle Blind Spot Detection System. For any questions or concerns, please contact Weuaste customer service. A satisfactory solution will be provided within 24 hours.