# Item List

<table>
<thead>
<tr>
<th>Item List</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radar Sensor</td>
<td>2 PCS</td>
</tr>
<tr>
<td>Sensor Extension Cable</td>
<td>2 PCS</td>
</tr>
<tr>
<td>Main Unit</td>
<td>1 PCS</td>
</tr>
<tr>
<td>Main Harness</td>
<td>1 PCS</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>2 PCS</td>
</tr>
<tr>
<td>GPS Antenna</td>
<td>1 PCS</td>
</tr>
<tr>
<td>Buzzer</td>
<td>1 PCS</td>
</tr>
<tr>
<td>LED Extension Cable</td>
<td>3 PCS</td>
</tr>
<tr>
<td>3M Velcro</td>
<td>4 PCS</td>
</tr>
</tbody>
</table>

Tools for installation: insulation tape, multi-meter, screwdriver, cleaning cloth, tape.
## Technical Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating frequency</td>
<td>24.0 ---- 24.25GHZ</td>
</tr>
<tr>
<td>Transmit power</td>
<td>15dbm</td>
</tr>
<tr>
<td>Detection range</td>
<td>40 degree (Horizontal)</td>
</tr>
<tr>
<td>Detection ability</td>
<td>5 targets can be detected at the same time</td>
</tr>
<tr>
<td>Speed range</td>
<td>0.35mph --- 137mph</td>
</tr>
<tr>
<td>Speed accuracy</td>
<td>&lt; 0.35mph</td>
</tr>
<tr>
<td>Direction of movement</td>
<td>Approached or overtaken by vehicles</td>
</tr>
</tbody>
</table>

### Speed Restriction

1. The GPS Antenna when connected activates notifications over 20mph (Example LED + Speaker)
2. If no GPS signal is detected or satellites not found, the system will give notifications at any speed.

### Detection range

- **Truck**: 1ft - 82ft
- **Car**: 1ft - 50ft
- **Motorcycle**: 1ft - 33ft
- **Pedestrian**: 1ft - 23ft

### Operating voltage

- 9 --- 35V

### Cables waterproof

- Radars: IP 67 / Cables: waterproof

### Working current

- < 200mA

### Working temperature

- -40°C ~ + 85°C

---

## Wiring Diagram

![Wiring Diagram](image)
Wire Connection Diagram
Installation Guide

Step 1. Sensor Installation
Installation requirements: sensors should be mounted to the front corner of the vehicle, Using screws to fix the sensor on the front of the vehicle.

Step 2. Installation of the left/right turn signal
Using the voltage Multi-meter, locate the left and right turn signal trigger wires behind the tail lamp. Once verified, connect the left and right signal wires of the RVS-129 wire harness to the correct signal wires.

Please note.
Letters R and L on the rubber gasket, stands for right sensor and left sensor.
Step 3. LED Indicator Installation
Place the LED indicators where it is visible for the driver. Ideally on the A-pillar or in field view side mirrors.

L - Left LED

R - Right LED

Step 4. Buzzer Location
While installing the speaker, make sure it is not obstructed by any panels inside the vehicle.

Buzzer

Step 5. Tuck the wires neatly to hide and prevent wire pinch.
Illumination of the LED indicator on the control box:
1. The LED comes on solid when the system is first powered up;
2. The LED blinks slowly while the GPS module is connected to the satellite;
3. The LED blinks quickly while sensing moving objects approaching in the blind spot (same frequency as to the alarm LED indicators & the buzzer);
4. The LED maintains the last blinking status after the alerts have ended (the last blinking status of alarming is off / on randomly)

Step 6. Man Box Location
While installing the main box, use tape to mount it on the cab

Alert Conditions

1. When the vehicle is on, the system would start detecting objects in the blind spot area in the lane next to and behind the vehicle 50 feet.
2. When vehicles are approaching and their speed is faster than our own speed.
Alert Characteristics

A. Blind detection on right side:
1. R-LED indicator will be activated when there is an object approaching to the right side blind area of your vehicle (see Fig.16).
2. If the right turn signal of your vehicle is triggered at the same time, the R-LED indicator will be blinking and the buzzer will be beeping as well (with the same frequency).

B. Blind detection on left side:
1. L-LED indicator will be activated when there is an object approaching to the left side blind area of your vehicle (see Fig.16).
2. If the left turn signal of your vehicle is triggered at the same time, the L-LED indicator will be blinking and the buzzer will be beeping as well (with the same frequency).

C. The LED and buzzer will standby (no activity) if there is no object approaching to the blind area of your vehicle.

D. During reversing, the R & L LED will be blinking according to the approaching object detection of each side.
## Troubleshooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED light does not work</td>
<td>Incorrect connection or pins not making contact</td>
<td>Check the harness and make sure connection is correct</td>
</tr>
<tr>
<td></td>
<td>LED light is broken</td>
<td>Replace LED light</td>
</tr>
<tr>
<td>Opposite LED indicator</td>
<td>Microwave sensor or LED indicators are plugged in to the opposite connector</td>
<td>Make sure RED is driver side and YELLOW is passenger side.</td>
</tr>
<tr>
<td>Buzzer does not work</td>
<td>Wrong connection or pins not making contact</td>
<td>Check the harness and make sure connection is correct</td>
</tr>
<tr>
<td></td>
<td>Defective buzzer speaker</td>
<td>Replace buzzer</td>
</tr>
<tr>
<td>Sensors or GPS does not work</td>
<td>Sensors or GPS module are covered by the metal bumper or other metal</td>
<td>Find the best location where the GPS antenna cannot be blocked by any metal</td>
</tr>
<tr>
<td>Unit does not work after GPS is connected</td>
<td>Sensors or GPS module are covered by the metal bumper or other metal</td>
<td>Blind spot system does not trigger the sensors if the speed is less than 20mph</td>
</tr>
</tbody>
</table>
IN NO EVENT SHALL SELLER OR MANUFACTURER BE LIABLE FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

Before drilling please check that no cable or wiring is on the other side of the wall. Please clamp all wires securely to reduce the possibility of them being damaged while vehicle is in use. Keep all cables away from hot/moving parts and electrical noisy components.

_We recommend doing a benchmark test before installation to ensure that all components are working properly._
**ONE YEAR WARRANTY**

REAR VIEW SAFETY, INC. WARRANTS THIS PRODUCT AGAINST MATERIAL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF PURCHASE. WE RESERVE THE RIGHT TO REPAIR OR REPLACE ANY SUCH DEFECTIVE UNIT AT OUR SOLE DISCRETION. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR A DEFECT IN THE SYSTEM AS A RESULT OF MISUSE, IMPROPER INSTALLATION, DAMAGE OR MISHANDLING OF THE ELECTRONIC COMPONENTS. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR CONSEQUENTIAL DAMAGES OF ANY KIND.

THIS WARRANTY IS VOID IF: DEFECTS IN MATERIALS OR WORKMANSHIP OR DAMAGES RESULT FROM REPAIRS OR ALTERATIONS WHICH HAVE BEEN MADE OR ATTEMPTED BY OTHERS OR THE UNAUTHORIZED USE OF NONCONFORMING PARTS; THE DAMAGE IS DUE TO NORMAL WEAR AND TEAR, THIS DAMAGE IS DUE TO ABUSE, IMPROPER MAINTENANCE, NEGLECT OR ACCIDENT; OR THE DAMAGE IS DUE TO USE OF THE REAR VIEW SAFETY, INC. SYSTEM AFTER PARTIAL FAILURE OR USE WITH IMPROPER ACCESSORIES.

**WARRANTY PERFORMANCE**

DURING THE ABOVE WARRANTY PERIOD, SHOULD YOUR REAR VIEW SAFETY PRODUCT EXHIBIT A DEFECT IN MATERIAL OR WORKMANSHIP, SUCH DEFECT WILL BE REPAIRED WHEN THE COMPLETE REAR VIEW SAFETY, INC. PRODUCT IS RETURNED, POSTAGE PREPAID AND INSURED, TO REAR VIEW SAFETY, INC. OTHER THAN THE POSTAGE AND INSURANCE REQUIREMENT, NO CHARGE WILL BE MADE FOR REPAIRS COVERED BY THIS WARRANTY.

**WARRANTY DISCLAIMERS**

NO WARRANTY, ORAL OR WRITTEN, EXPRESSED OR IMPLIED, OTHER THAN THE ABOVE WARRANTY IS MADE WITH REGARD TO THIS REAR VIEW SAFETY, INC. REAR VIEW SAFETY, INC. DISCLAIMS ANY IMPLIED WARRANTY OR MERCHANT-ABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE AND ALL OTHER WARRANTIES IN NO EVENT SHALL REAR VIEW SAFETY. INC. LIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR FOR ANY COSTS, ATTORNEY FEES, EXPENSES, LOSSES OR DELAYS ALLEGED TO BE AS A CONSEQUENCE OF ANY DAMAGE TO, FAILURE OF, OR DEFECT IN ANY PRODUCT INCLUDING, BUT NOT LIMITED TO, ANY CLAIMS FOR LOSS OF PROFITS.
DISCLAIMER

Rear View Safety and/or its affiliates does not guarantee or promise that the user of our systems will not be in/part of an accident or otherwise not collide with an object and/or person. Our systems are not a substitute for careful and cautious driving or for the consistent adherence to all applicable traffic laws and motor vehicle safety regulations. The Rear View Safety products are not a substitute for rear view mirrors or for any other motor vehicle equipment mandated by law. Our camera systems have a limited field of vision and do not provide a comprehensive view of the rear or side area of the vehicle. Always make sure to look around your vehicle and use your mirrors to confirm rearward clearance and that your vehicle can maneuver safely. Rear View Safety and/or its affiliates shall have no responsibility or liability for damage and/or injury resulting from accidents occurring with vehicles having some of Rear View Safety products installed and Rear View Safety and/or its affiliates, the manufacturer, distributor and seller shall not be liable for any injury, loss or damage, incidental or consequential, arising out of the use or intended use of the product. In no event shall Rear View Safety and/or its affiliates have any liability for any losses (whether direct or indirect, in contract, tort or otherwise) incurred in connection with the systems, including but not limited to damaged property, personal injury and/or loss of life. Neither shall Rear View Safety and/or its affiliates have any responsibility for any decision, action or inaction taken by any person in reliance on Rear View Safety systems, or for any delays, inaccuracies and/or errors in connection with our systems functions.
THE RVS DIFFERENCE

COMPETITION
Sensors mounted in rear corners

THE RVS DIFFERENCE
Our sensors mounted in the front of the vehicle

82 FT RANGE!
If you have any questions about this product, contact:

Rear View Safety, Inc.
1797 Atlantic Avenue
Brooklyn, NY 11233
800.764.1028

IT’S OUR GUARANTEE.