PREMIUM PARKING SENSOR

More eyes & More Safe

GENERAL
Car parking sensor consists of ultrasonic sensors, digital control box, camera and LED/LCD/TFT display. This system detects the distance between the car and back obstruction with ultrasonic sensors installed at the rear bumper of car. The obstruction image will be shown via the camera. With the change of alarm sound, detect the safe area correctly. It is best choice for the safe of your car.

Models Selection
We can offer different kinds of parking sensor system.

SENSOR INSTALLATION
Be sure no other parts of the vehicle falls into the detecting range of the sensors so as to avoid false detection.

The best position for 2 sensors

The best position for 4 sensors

Install the insert-in sensor

Fetch out the sensor wire sticker facing up

Bumper

Driller for sensor

Bumper

Camera

Sensor

Side view after installation

The direction of sensors

Insert-in

Insert-in

Stick-on

Stick-on and Insert-in sensors in various shapes for option
Connection diagram of camera type parking sensor system

Alarm Mode

<table>
<thead>
<tr>
<th>Stages</th>
<th>Distance</th>
<th>Awareness</th>
<th>Sound Alarm</th>
<th>Number</th>
<th>color</th>
<th>Bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>&gt;250cm</td>
<td>Safe area</td>
<td>silence</td>
<td>1.6-2.5</td>
<td>white</td>
<td>No bus</td>
</tr>
<tr>
<td>2</td>
<td>160-250cm</td>
<td>Safe area</td>
<td>silence</td>
<td>1.6-2.5</td>
<td>white</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>100-150cm</td>
<td>Safe area</td>
<td>Dang...Dang.</td>
<td>1.0-1.5</td>
<td>white</td>
<td>Green</td>
</tr>
<tr>
<td>4</td>
<td>70-90cm</td>
<td>Alert area</td>
<td>Dang...Dang.</td>
<td>0.7-0.9</td>
<td>white</td>
<td>Green+yellow</td>
</tr>
<tr>
<td>5</td>
<td>40-60cm</td>
<td>Alert area</td>
<td>Dang...Dang.</td>
<td>0.5-0.6</td>
<td>white</td>
<td>Green+yellow</td>
</tr>
<tr>
<td>6</td>
<td>0-30cm</td>
<td>Dangerous area</td>
<td>Dang...Dang.</td>
<td>0.0-0.4</td>
<td>white</td>
<td>Green</td>
</tr>
</tbody>
</table>

Technical Date
1. Rate Voltage: 12V
2. Operation Voltage range: 9-16V
3. Rated Current: 20-200mA
4. Detecting distance: 0-2.5m
5. Ultrasonic Frequency: 40KHz
6. Working temperature: -40~+80°C
7. Display working temperature: -20~+60°C

INSTALLATION AND TEST
1. After the installation of sensors, turn the direction to the correct. Arrange the wire in good order.
2. Connect the red cable from control box to the positive of the reverse light, the black wire to the negative; Connect the red cable from the camera to the positive of the reverse light; Connect the green cable from the display to the positive of the reverse light. The display should be connected to ACC power, the negative pole should be connected to the earht wire. (Ref Installation diagram).
3. Connect the display w/th control box. Connect the video in the control box with the VIDEO 2 on the display.
4. Put the shift lever to the reverse gear, then the reverse lamp is lighted. In this Situation, the display should show the image and there will be a white dot in middle of the bottom of image. Which indicate the system is under test status.

Test: a. If the display does not show the rear view, please check that polarity of the power is correct, the cables are connected correctly, whether the voltage is larger than 10.5. Check the plug on the display is well connected.

b. If distance display in 1m or shorter display 0.0, please give sound continuously. Please switch the power off, then select the reverse gear again, if the problems could not be solved, the control unit could be deemed a defective and replace a new one.

c. After 70-90cm the negitive pole should be connected the black wire. If the display shows distance 0.0 or nothing in front of the sensor, maybe the sensor is detecting the ground, please check the position and direction of the sensor. The sensors should be a little raised in horizontal. The sensors may detect the out shot in the back, such the license plate, the spare wheel and the bumper etc...

d. If the display does not work after the testings, the sensors can be deemed as defective or the sensors does not match with the control box. The whole system should be replaced.

e. If the image is gradient or reversed, please check that the camera is installed according to the label.

5. For abnormal display such as strips, inclined lines, please check the matching between camera and display!

Note: A. The display can be interchanged, but the sensors & the control box, the sensors & the jacks are matched one by one. B. For the concern of safety, the display will only show 0.0 instead of 0.3-0.1, when detect something in the distance of 0.0 to 0.4m according to the software. In situation, the driver should park, the car immediately. When the distance within 0.5m, the alarm sound will keep 1 second longer. Please pay attention to this while doing the adjustments.

NOTE
1. Please pay attention to the difference on the size of the driller for camera and the sensors.
2. When install the system, the car should be in powered off situation.
3. The performance maybe affect in the following situation: heavy rain, the gravel road, bumpy road, sloping road and bush: very hot, cold or moist weather, the sensors is covered by snow, ice, mud, etc.
4. Other ultrasonic or electric wave, the instance of DC/AC switch or 24/12V switch maybe affect the performance of the system.
5. The sensor should not be installed too tightly or too loose.
6. The metal bumper may affect the performance of the system.
7. Don't locate the control unit near to other interference such as exhaust pipe or other wires.
8. Test the system to make sure it work well before using.
9. This system is a reversing aid and the manufacturer takes no resp De sibility for any accidents caused after the kit is installed.