



HaDi

Parking

Assistance

System

User's Manual

FCC ID:ULG001

Model: PAS/WLA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Part 15.21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

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Notes

1. This system is designed to be an aid and should not replace the need to drive carefully.
2. Under no circumstances will manufacturer, supplier, and/or dealer accept any responsibility or can be held liable for any direct or indirect, incidental or consequential damage, or for injuries resulting from installing or using this system.
3. HaoDi or supplier does not cover any additional promises made by retailer of product.
4. To the extent that is permitted by law, HaoDi or supplier does not accept responsibility to any loss resulting from reliance on contents of this publication.

Cautions

1. Please read this manual carefully before using the product.
2. We recommend that you practice with parking assistance system with different obstacles to understand performance.
3. Though the minimum detecting distance is 1.15ft (0.35m), it is still recommended to keep enough space to stop your car. Considering the cars' inertia, it would be better to stop your car when the distance on the display is shorter than 2ft (0.60m).
4. Reverse speed should also be under 2-3 mph, and no matter how effective a parking assistance system is, if reverse speed is fast, backing accidents will occur.



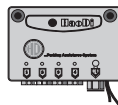
Products

● Introduction

HaoDi parking assistance system will assist the driver to avoid accidents in reverse. This system is comprised of 4 sonar sensors, a wireless transmission controller, a parking sensor receiver and an optional display with built-in audible alert. This system uses ultrasonic technology with fuzzy data processing. The system sends out sonar waves which will detect objects 1.15-8 feet away. The controller then will send data to display which will display distance in feet on how far object is away from sensor, as well as sound a beep to alert the driver audibly. The system is activated by tapping into the reverse back light, so when the car goes into reverse, the system activates.

● System Composition

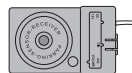
Wireless Transmission Controller



Sensor & Accessories



Parking Sensor Receiver



Optional Display



401



403



404



405



407



411



● Features

1. Accurate measurement and stable readout.
2. High sensitivity, wide detection range and small blind zone.
3. Full function, include digitalized distance display/ sound warning /zone caution / orientation indication/build-in test.
4. The system is merged into the car perfectly.
5. Apply to most cars and easy to install.

● Technical Parameters

1. Operating voltage range: DC 12V $\pm$ 1.5V
2. Working frequency: 433.92MHz
3. Wireless transmission power: <40mW
4. Whole Power: <1.5W

5. Working ambient temperature: -31°F~+158°F
(-35°C~+70°C)

6. Detecting distance: 1.15ft~8ft (0.35 m ~ 2.50m)

7. Measuring error: $\pm$ 0.07ft (0.02m)

Usage

● Power on

If installed using the reverse back light as the power, the system is automatically activated when vehicle is engaged in reverse gear. The system will go through a self check diagnostic program when initialized. Then the buzzer will sound a few short beeps which will correspond to the number of sensors that the system has. Meanwhile, the correspondent orientation indicators will be on as well. Now the system is active and ready for use.



● Sensing Range and Warning Methods

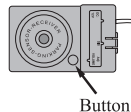
Distance(ft)	0.00	1.15	2	5	8
Dist. display	-P-	1.15	~	8.00	- - -
Distance(m)	0.00	0.35	0.60	1.50	2.50
Dist. display	-P-	0.35	~	2.50	- - -
Zone caution					
Sound warning	Be...Cont. Bp BeBeBe Swift Bp	Be..Be..Be.. Short Beep	Be..Be..Be.. Long Beep	No Beep	
	Dangerous Zone	Warning Zone	Safe Zone		

● Warning Volume Adjustment

There are 9 sound level for the sound alarm, from 0 (mute) to 8(highest).

You can adjust the alarm volume by two methods:

1. There is a small button on the receiver box which is connected to the display. When you press the button, you will hear a sound changed circularly from mute to highest. You will also see a relative figure showing on the display, from "0" to "8". "0" means mute, "8" means highest. When you find one sound level is ok for you, release the button. The sound alarm for the system will be fixed at that level.





2. There is a switch on the back of the display. When you move the switch to "H" position, you will hear a sound changed circularly from mute to highest. You will also see a relative figure showing on the display, from "0" to "8". "0" means mute, "8" means highest. When you find one sound level is ok for you, move the switch to "L" position. The sound alarm for the system will be fixed at that level.



Note: If you adjust the sound volume when the system is working (the vehicle is backing), you will see figures other than "0"~"8" on the display, this is a normal status and will not affect the sound adjustment. We suggest that you adjust the sound volume when the system is not working.

● Functions

① DISTANCE DISPLAY

Display the distance between sensor and the closest obstacle.

② SOUND WARNING

Indicate zone changes with different sound frequency.

③ ORIENTATION INDICATION

Denote the closest obstacle orientation with orientation icon .

④ ZONE CAUTION

Indicate zone stage with zone icon.