

FenSens™

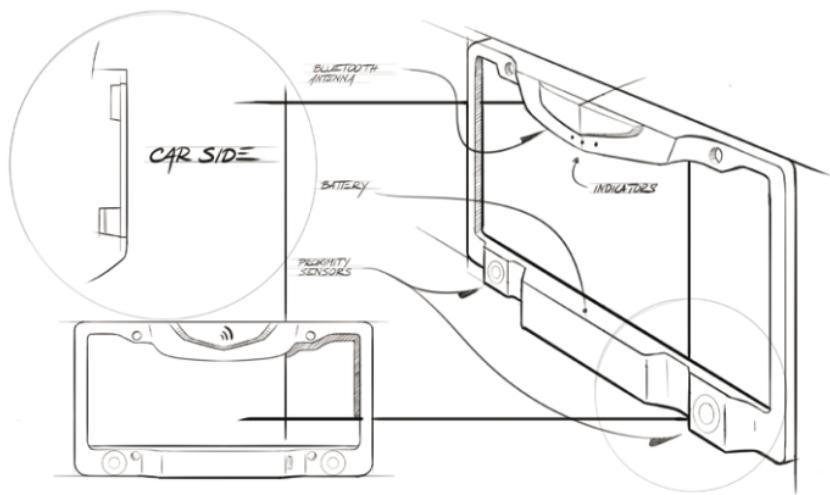
SMART WIRELESS PARKING SENSOR



FenSens

Smart Wireless Parking Sensor

User Manual



FenSens Product Support

Online: <http://FenSens.com>

Email: info@FenSens.com

©2017 FenSens, Inc. All rights reserved.

Bluetooth word mark and the Bluetooth logo are both registered trademarks of Bluetooth SIG. This manual may not be copied in any media or form without the written consent of FenSens, Inc.

TABLE OF CONTENT

Introduction	04
Important Safety Instructions	04
Package Contents	04
FenSens Overview	05
Features	07
Powering On	07
Setting Up The Mobile App	08
Mounting Device	08
Adjusting Sensor Positions	10
Backing Up Safely	12
App Features And Functions	15
Specification	18
Factory Reset	19
Troubleshooting	19
Frequently Asked Questions	21
Warranty	22
FCC Statement	23
IC Statement	24

INTRODUCTION

Read all safety and operating instructions before using this Bluetooth Smart Wireless Parking Sensor.

IMPORTANT SAFETY INSTRUCTIONS

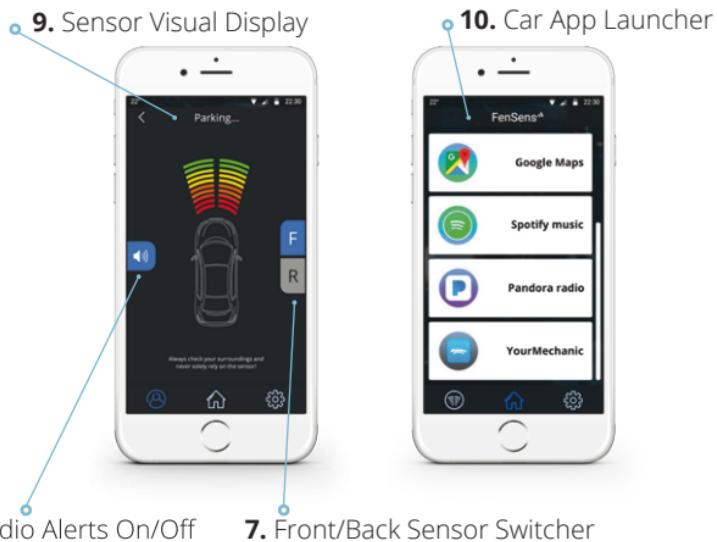
Read all safety and operation instructions before using the device

01. Device is suitable for -30°F and 130°F, but it is not recommended to store or keep the device in below 0°F or above 110°F temperatures.
02. Do not submerge the device underwater. Note: It is suitable for rain and car washes. However, large raindrops or snow on the sensors may cause some false readings just like with parking sensors on new vehicles.
03. Use only accessories and attachments as supplied and designated in the instruction manual.
04. Do not attempt to open or modify the device in any way.
05. Store the device in a cool, dry place when not in use.
06. Always dispose of the packaging and unit in accordance with the local regulations and in a responsible manner.

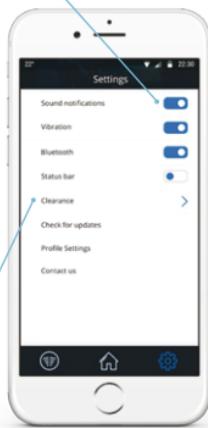
PACKAGE CONTENTS

- FenSens Smart Wireless Parking Sensor
- User Manual
- Smartphone Mount
- QuickLaunch Button
- Custom Security Screwdriver (Prevents theft)
- Universal Screwdriver

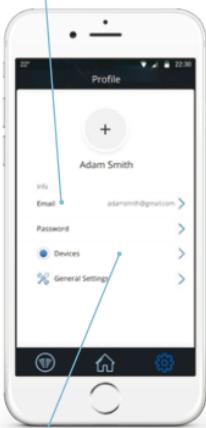
FENSENS OVERVIEW



11. Alert Settings



13. Account Settings



12. Clearance Settings

14. Add New FenSens Device (Front or Back)

15. Adjust Device Placement

1. Left Sensor

2. Right Sensor

5. Security Screw Mounts

6. Battery

7. Front/Back Sensor Switcher

8. Audio Alerts On/Off

9. Sensor Visual Display (Not actual coverage area)

10. Car App Launcher

11. Alert Settings

12. Clearance Settings

13. Account Settings

14. Add New FenSens Device (Back or Front)

15. Adjust Device Placement (On App)

16. Tap QuickLaunch Button

FEATURES

1. **Wireless Parking Sensor:**

Wireless parking sensor utilizes Bluetooth 4.1 technology to send instant audio, visual, and vibration alerts to your phone.

2. **Auto-launch:**

Tap the included launcher button to launch the Android app instantly (when phone screen is unlocked) or receive a push notification (iOS) to launch your Apple app.

3. **Universal Battery:**

Enjoy 5 month battery life with average use. Batteries can be replaced with standard universal AA batteries.

4. **Easy Install:**

Installs in 5 minutes with included custom security screws to prevent theft.

5. **Portability:**

Bring your FenSens with you to your next vehicle purchase or hand it down to your next of kin.

6. **Hands-free alerts:**

Mount your phone with the included phone mount and utilize audio alerts or the visual display to assist you with parking. Turn on your vibration settings to utilize vibration alerts if your phone is in your pocket.

POWERING ON

Place the batteries in the device and it will turn on. Afterwards, the device will continue to sit in low power mode thereafter and you will not be required to turn the device on again. After turning on the device, please download the app in the app store (iOS and Android only) and follow the setup instructions. Note: You may have to remove the batteries and place in the device again to reset the device.

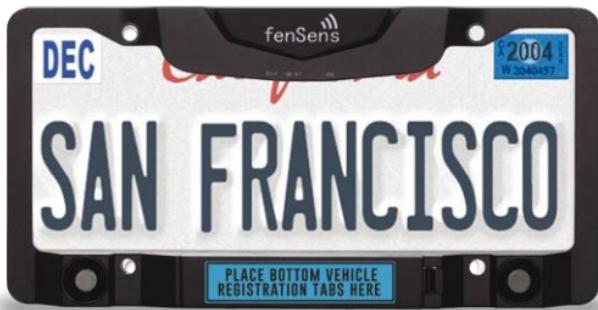
SETTING UP THE MOBILE APP

1. Download the app on the Google Play or Apple iTunes App Store
2. Select whether the device will be mounted on the front or back of your vehicle. Select only one option for now, but you can choose a second device to the front or back after the initial setup process.
3. Adjust the clearance for your device, especially if it is placed on your back license plate. This is to compensate for the bumper or hitch possibly sticking out past the position of the sensors.
4. Make sure your smartphone Bluetooth settings are turned on, then pair your smartphone with the FenSens device and the QuickLaunch button.
5. Launch FenSens anytime you want to use it by simply opening the app, hitting the sensor icon within the app's navigation bar, or tapping the included QuickLaunch button.

MOUNTING DEVICE

1. Place included batteries within the smart parking sensor device, then seal it up with the provided screw set. Open up the QuickLaunch button and remove the protective plastic strip between the battery and the battery connector.
2. It is best to setup the mobile app and pair it with the device before installing on the vehicle.
3. After setting up the app, place the smart wireless license plate frame on top of your front or back license plate over the corresponding screw holes.

4. Use the included custom screwdriver to screw in the smart wireless license plate frame. It's important to use the custom security screws included with your kit as these screws will help prevent people from stealing your device. Fully tighten the screws so the device is secure.
5. Make sure your registration tabs and plate numbers are fully visible in order to stay legally compliant. Please refer to local rules and regulations regarding license plate visibility.
6. Wiggle your device to ensure it is fully screwed in and secure.



ADJUSTING SENSOR POSITION

The sensors can be adjusted up or down if you need them to be. We recommend this if your plate is higher than 3 feet off the ground or you are concerned about catching low hanging objects, such as curbs. Please adjust the sensors to a position you are comfortable with using the flat ground as a reference. You do not want the sensors to be hitting the road and providing false readings.

The screw holes can be identified in the image below. Be sure to use the special tool that's included with your kit to unscrew and adjust the sensors up or down. Tighten the special sensor screws after making an adjustment so they do not change position while in use on your vehicle.



Please note: FenSens is not recommended for vehicles with a license plate higher than 4 feet off the ground. The higher your smart wireless license plate is placed off of the ground, the more clearance you need to set within the app. Please see feature 12 in the Features section along with the diagram below.

*Please adjust the clearance on your app according to the chart below.



PLATE HEIGHT	Adjust the clearance on your app*
1.0 Foot	Bumper/hitch clearance distance only
1.5 Feet	2.4 Inches + Bumper/hitch clearance distance
2.0 Feet	3.6 Inches + Bumper/hitch clearance distance
2.5 Feet	5.50 Inches + Bumper/hitch clearance distance
3.0 Feet	7 Inches + Bumper/hitch clearance distance
3.0 Feet	9 Inches + Bumper/hitch clearance distance
4 Feet	12 Inches + Bumper/hitch clearance distance
4 Feet And Above	Not recommended

BACKING UP SAFELY

Please note: the mobile app display is for visual purposes only and does not represent exact dimensions for the Smart License Plate Frame. Always use precaution when driving, checking for blind spots while operating or parking your vehicle.

FenSens is best used for backing up or pulling forward into a parking spot. Please visually check the spot before making a parking maneuver. Listen for audio alerts from your phone if something should suddenly appear in front or behind your vehicle (depending on sensor placement). You will only receive sensor alerts from the side of your vehicle that the device is mounted on.

If the device ever disconnects from your smartphone's Bluetooth, you will receive a pop-up notification and an audio alert to your smartphone.

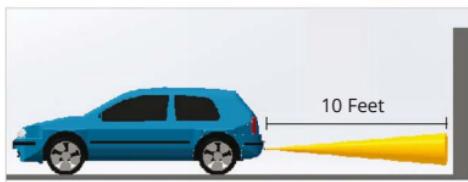
Please pay attention to this warning and proceed with caution or halt the parking maneuver. The warning will disappear as soon as the sensor reestablishes a connection with your smartphone.



Refer to the diagrams below before using FenSens so that you can fully understand the field of vision for the device. Please note that the corners of the bumper are not covered and the field of vision is best used for objects directly in front or behind the vehicle, which can be seen best by moving your vehicle forward or backward in a straight line.

SENSORIAL DEVICE

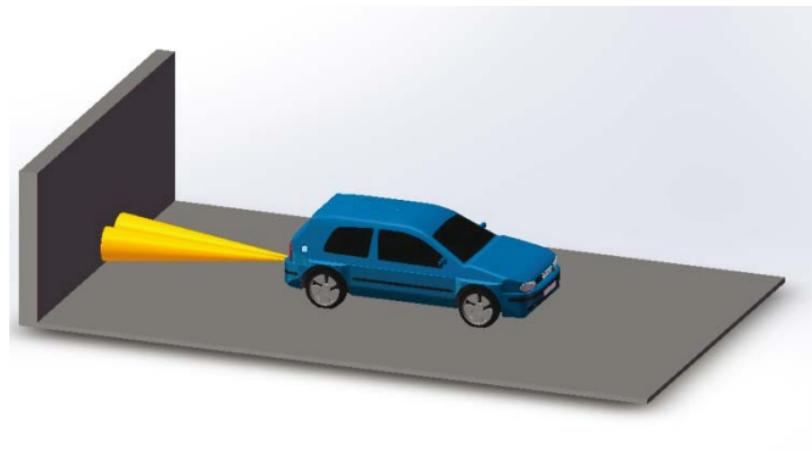
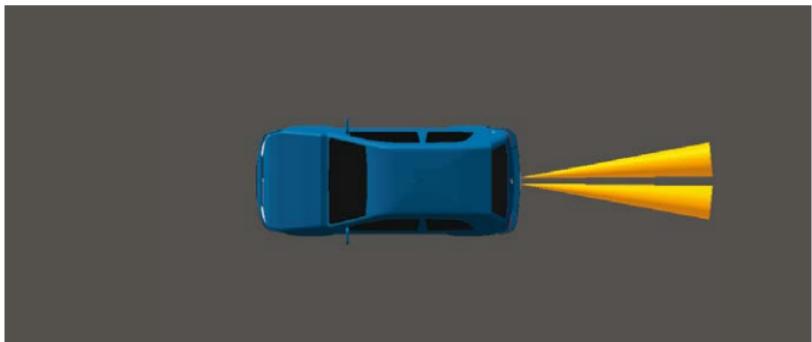
- 10 ft Longitudinal Range
- Max. gap Allowed 6 in



2 SENSORS

4 ft Radial Range





APP FEATURES AND FUNCTIONS

Launch your device by tapping the QuickLaunch button included with your FenSens kit. The button will automatically launch your app on Android if your screen is not locked and it will send a push notification if you are using an iOS device. If your Android is on screen lock or you are using Apple iOS, please tap the push notification to open the FenSens app to begin displaying sensor data.

9. Sensor Visual Display (Not actual coverage area)

- A. Visual indicators:** Use these visual indicators to know how far away an object is from your vehicle. Practice caution when you see that you are in the orange and red areas. For proper use, make sure your clearance is properly configured (See 19). Please note that these sensor displays are not the actual coverage area, but rather visual clarity to understand how far away an object is from your vehicle. See the section Backing Up Safely to understand the exact field of vision for the device.
- B. F/R Toggle Buttons:** Use these buttons to toggle between **front** or **rear** sensors individually.
- C. Sound Icon:** This icon will toggle audio alerts (beeps) on/off. For full effectiveness, we recommend that you keep the alerts on, but also offer the option to keep the audio alerts turned off.

10. Car App Launcher

- A.** Hold your QuickLaunch button for 3 seconds to pull up the car app launcher or access it directly by selecting the home icon on the app's lower navigation bar.
- B.** Use the car app launcher to access your favorite apps driving apps, such as: Google Maps, Apple Maps, Spotify, Pandora, and YourMechanic (for roadside assistance).

11. Alert Settings

- A. Vibration:** This switches on/off the vibration alerts. These alerts are useful if the phone is in your pocket when you tap the QuickLaunch button
- B. Sound notifications:** Similar to figure 17C, this toggles on/off audio (beeps) alerts.
- C. Bluetooth:** Turn off your Bluetooth connection (not recommended while driving).

12. Clearance Settings

- D.** Adjust your clearance settings to compensate for your bumper sticking out past the sensor or for smart wireless license plate frames placed higher than 2 feet off the ground. Please advise the "Adjusting sensor position" for further instructions.

13. Clearance Settings

- E. Email/Password:** Change the email or password associated with your account.
- F. Device:** See details regarding your device battery life and more

14. Add New FenSens Device (Back or Front)

- G. Add new FenSens:** After adding your first device, you can add another sensor on the front or back of your vehicle. It will guide you through the same setup process.

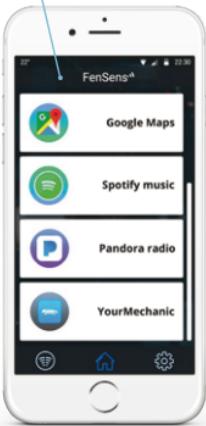
15. Adjust Device Placement (On App)

- H. Place of installation:** Changing your device from the back to the front of your vehicle? Be sure to adjust this setting so that your sensor data displays correctly on your app.

9. Sensor Visual Display



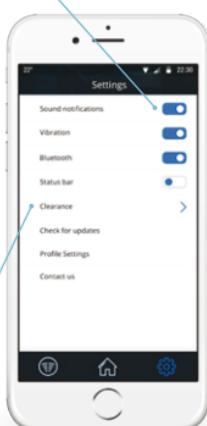
10. Car App Launcher



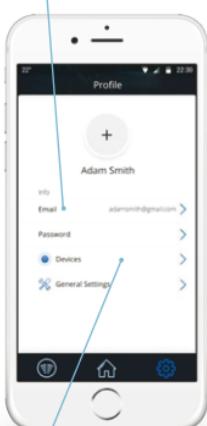
8. Audio Alerts On/Off

7. Front/Back Sensor Switcher

11. Alert Settings



13. Account Settings



12. Clearance Settings

14. Add New FenSens Device
(Front or Back)

15. Adjust Device Placement

SPECIFICATIONS

SPECIFICATIONS	
Bluetooth version	Bluetooth V4.1
Bluetooth profiles	GATT
Operating distance	10 meters
Battery time	About 5 months (5 times per day)
Sensor range	Approx 10 feet
Battery type	AA
App	iPhone 4s + iOS7.1+ preferred. Android 5.0 preferred with 4.4 minimum.
Dimension	12 inch long by 6 inch high
Weight	2Lbs
Battery capacity	3000mAH

FACTORY RESET

Warning: Performing a factory reset on the FenSens device will delete any previous pairings and will restore the device to factory default settings.

Note: This does not change the registration of your mobile device to the FenSens device. You can share access to the device from your app profile settings.

Only perform this if you are experiencing any issues with the product.

1. Remove the batteries from the casing for 3 seconds, then put them back into the license plate frame. This will factory reset the device, but it will still be registered to you.

Note: After the factory reset is complete, the memory is now cleared. However, the device will still be registered only to your mobile device or anyone that you have shared your code with. When reopening the app, you will be prompted to login and walk through the setup process once more.

TROUBLESHOOTING

1. Unable to pair with smartphone or tablet

Ensure that you have removed and properly installed the batteries again and that you have verified your smartphone's Bluetooth feature is also turned on. If you have yet to follow the setup instructions, please walk through the setup process to pair your FenSens device with your smartphone. The app will connect with your device when in range automatically as long as your smartphone's bluetooth setting is turned on.



2. **FenSens device keeps dropping signal**

If your device signal keeps dropping, please close out of the app and open it up again or press the included QuickLaunch button to auto-launch.

3. **App QuickLaunch is not working correctly**

The Android app QuickLaunch could have conflicts if you have too many apps running on your phone or not enough memory space available. If space is limited, please follow your smartphone's instructions regarding memory space availability.

4. **Lost or damaged accessories**

If you have lost or damaged one of the included accessories, please contact info@FenSens.com. The custom security screwdriver will require a replacement if it becomes lost, but the other screws can be easily removed using a standard screwdriver kit.

5. **Device has blind spots on the corner of my vehicle.**

Please refer to the "Backing Up Safely" section on the sensor's field of vision. Please note: FenSens is a "Parking Assist" device and does not prevent accidents. Always check in the front and the back of your vehicle before driving, proceeding with caution of your surroundings throughout the entire duration of your trip. FenSens is recommended for backing up or pulling forward and receiving alerts when an object/person suddenly appears in front or behind your vehicle. FenSens does not possess peripheral abilities.

6. **Device or QuickLaunch button isn't powering up**

Please make sure you have placed the included batteries within the battery compartment of the FenSens device. If your button isn't working, then it could be that you haven't removed the protective plastic strip inside the button. Open it up and remove the plastic strip to enable the battery connection. After you are sure the batteries are connected properly, hit the grey button on the FenSens device to reset it, then try opening the app again.

FREQUENTLY ASKED QUESTIONS

1. What is the FenSens compatible with?

The FenSens device will work with most Android or iOS compatible smartphone and tablet devices.

- Apple devices- iPhone 4s+, iPod Touch, iPad with iOS7.1+ preferred
- Smartphones - Android 5.0 preferred with 4.4 minimum.

2. Where can I replace lost FenSens accessories or tools?

Batteries and the standard screwdriver can be replaced at any local store. Please use a trusted AA battery for your device. The custom security screws, custom security screwdriver, and QuickLaunch button must be replaced by contacting info@FenSens.com.

3. Does FenSens disrupt my other Bluetooth connections?

No, FenSens will not interfere with your other Bluetooth connections. However, if you open the app or tap the QuickLaunch button, it will then override any other app in use and begin displaying sensor data and your customized alerts.

4. Help! I'm unable to use the device. What should I do?

Please view the Troubleshooting section. If you are unable to find a solution, please contact support online via info@FenSens.com

5. What's the effective range for the device?

See the "Backing Up Safely" section to know the field of vision for your device. It can see approximately 8 feet behind or in front of your vehicle with a max width of 4 feet at this distance. It is important to note that the FenSens device does not cover the corners of your bumper.

Use caution when reversing your vehicle, relying on your own visual scan. Never rely solely on the sensor of this device or any vehicle (even in new cars). The Bluetooth range between your phone and device is effective up to 30 feet, but we recommend being no further than 20 feet away while in use.

WARRANTY

One Year Limited Hardware Warranty

FenSens, Inc hereby warrants to the customer of record that this product is in good-working condition and free from defects in material or workmanship under normal use for a duration of 1 year after the date of purchase.

The product has been tested to meet the highest quality standards in each testing category. In the unlikely event that the product proves to be defective, FenSens will repair or replace the product free of charge. If replacement is required and if FenSens, Inc then no longer carries the same product, then FenSens, Inc reserves the right to substitute the product with a replacement product of like quality and size, suitable for the intended use.

This warranty is limited to repair or replacement of the mentioned product only, is non-transferable and does not extend to any product damaged by misuse, natural disasters or any other circumstances beyond FenSens, Inc's control. The warranty does not cover or provide for the reimbursement or payment of incidental or consequential damage resulting from breach of the limited warranty described above. Except for the limited warranty described above, we offer no other warranties expressed or implied. Aside from limited warranty expressly contained herein, we hereby disclaim any and all warranties, including without limitation any implied warranties of merchantability, suitability or fitness for a particular purpose.

If your product is not functioning or you have any concerns, please contact FenSens Support before returning the product to us.

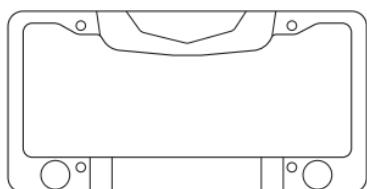
FCC Statement:

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.

NOTE: Unauthorized modifications or changes to this equipment could void the user's authority to operate the equipment.

FCC /IC RF Exposure Statement:



When using **Smart Wireless Parking Sensor**, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

FCC ID: 2AMAJ-FENSENS-USCAN
IC: 22794-FENV1
Model No: FenV1



Tap QuickLaunch Button has been evaluated to meet general RF exposure requirement, and can be used in portable exposure condition without restriction.

FCC ID: 2AMAJ-FENSENS-BUTTN
IC: 22794-BTTNV1
Model No: FEN-BTTNV1

IC Statement:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Online Support / Contact Us

Please visit us at <http://FenSens.com> for support information. You may also reach us with the contact information provided below.

Online: <http://FenSens.com>

Email: info@FenSens.com

