

Radars Analytics - Sensor

Quick Start Guide

Prepared By:

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Most Recent Version:

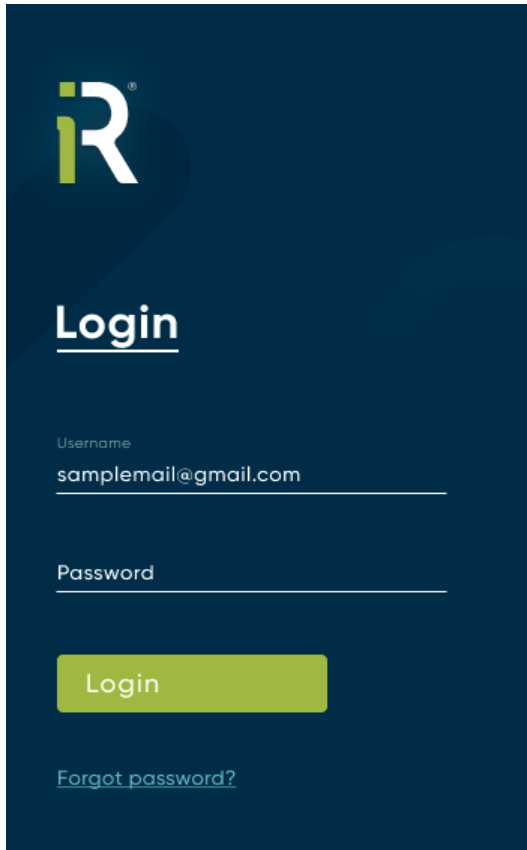
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1- Radar Overview

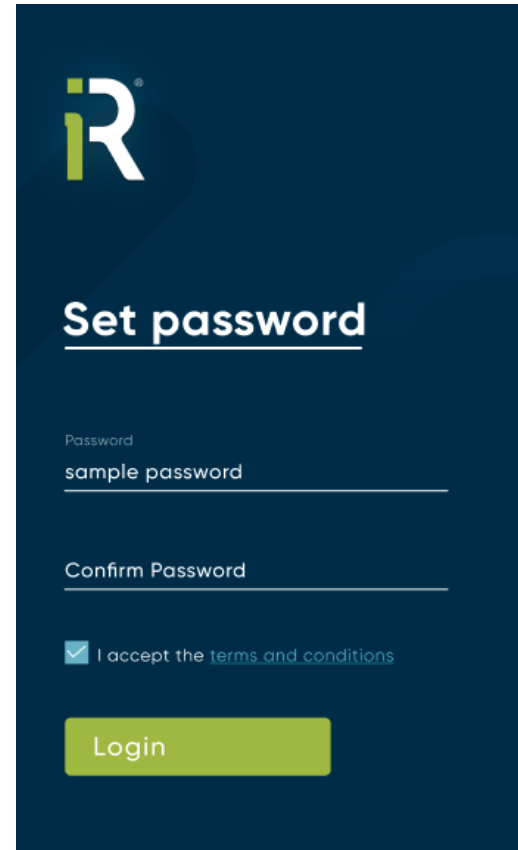
- The Radar Sensor is a standalone product, requiring a 2.4 GHz WiFi connection and network password.
- Configuration of the 'Radar Sensor' is completed using the InReality Radar mobile app with an Android or iPhone.
- The mobile Radar app is available via [Google Play](#) or [App Store](#).
- An InReality platform account is available for viewing Report data, creating KPI cards, Device Management, etc.
- This guide provides setup and configuration steps for the Radar Sensor.

2- Login

- Once the InReality App has been installed on your mobile, tap to start the application. Enter the Username and Password provided.
- Then enter and confirm a new password, accept the terms and conditions and click 'Login'
- On the Home screen, click the menu button in the bottom-right corner to add a Sensor



The screenshot shows the login screen of the InReality app. At the top left is the InReality logo, a stylized 'iR' with a green dot above the 'i'. Below the logo, the word 'Login' is written in white and underlined. There are two input fields: 'Username' with the text 'samplemail@gmail.com' and 'Password'. A green 'Login' button is positioned below the fields. At the bottom, there is a blue link that says 'Forgot password?'.

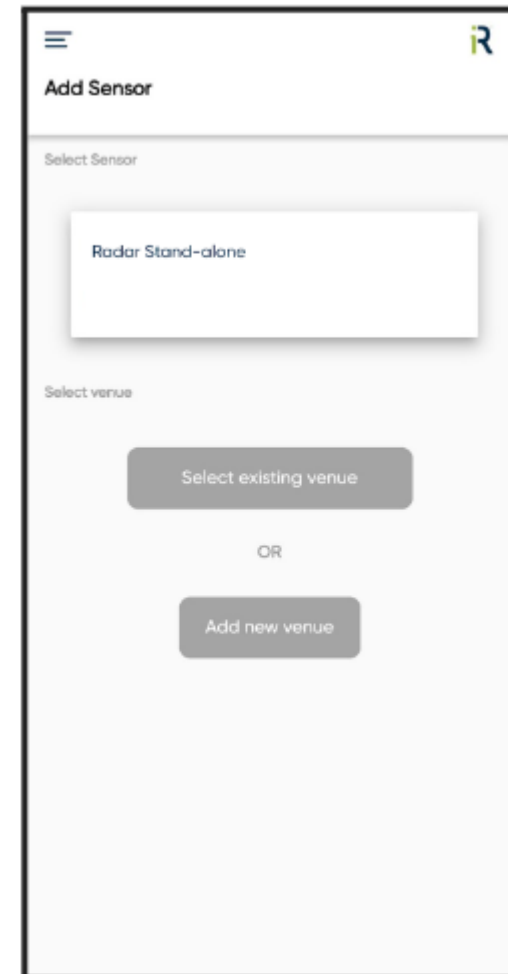
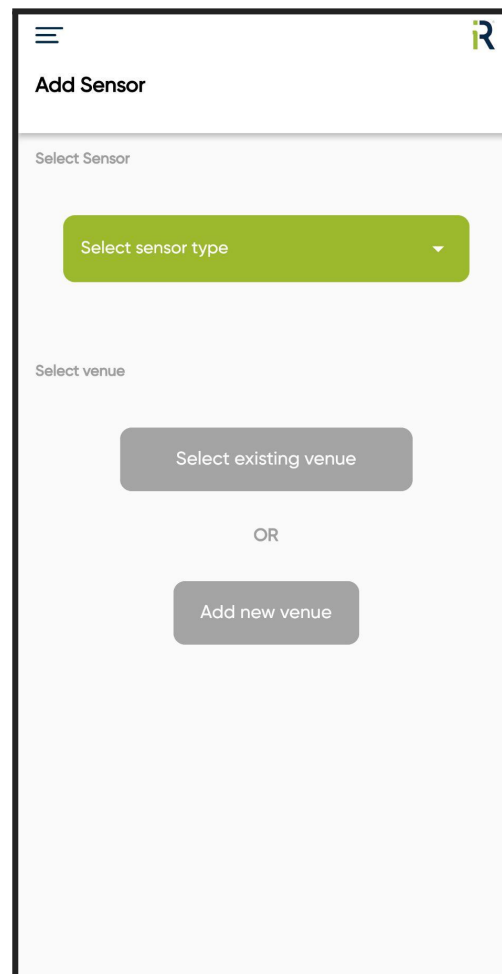
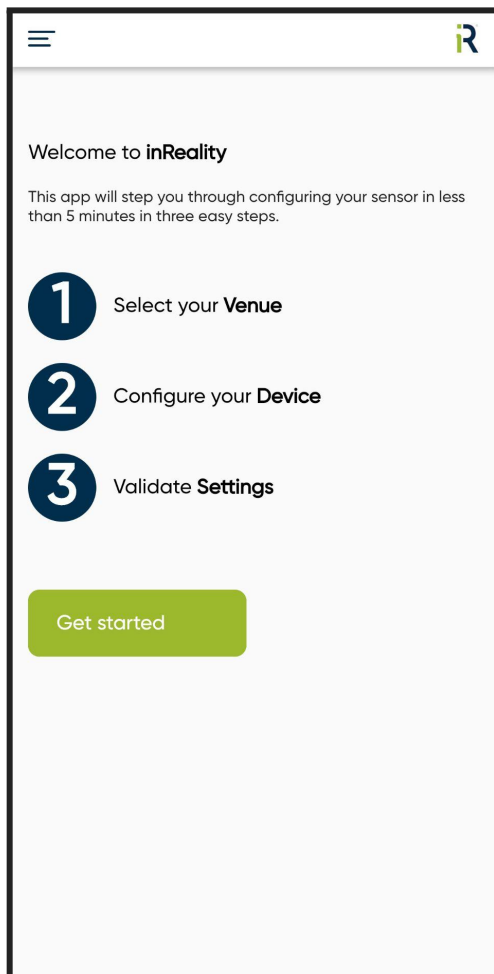


The screenshot shows the 'Set password' screen of the InReality app. At the top left is the InReality logo. Below it, the text 'Set password' is written in white and underlined. There are two input fields: 'Password' with the text 'sample password' and 'Confirm Password'. Below these fields is a checkbox with a checkmark and the text 'I accept the terms and conditions'. A green 'Login' button is at the bottom.

3- Sensor Setup

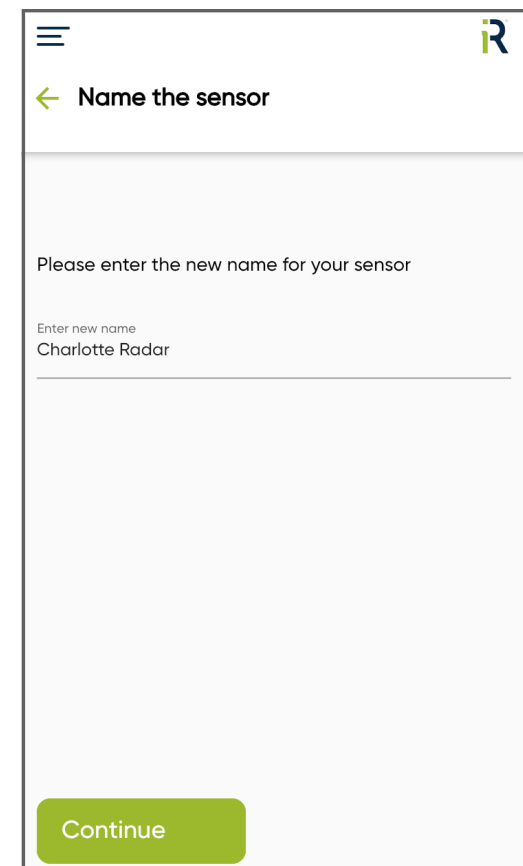
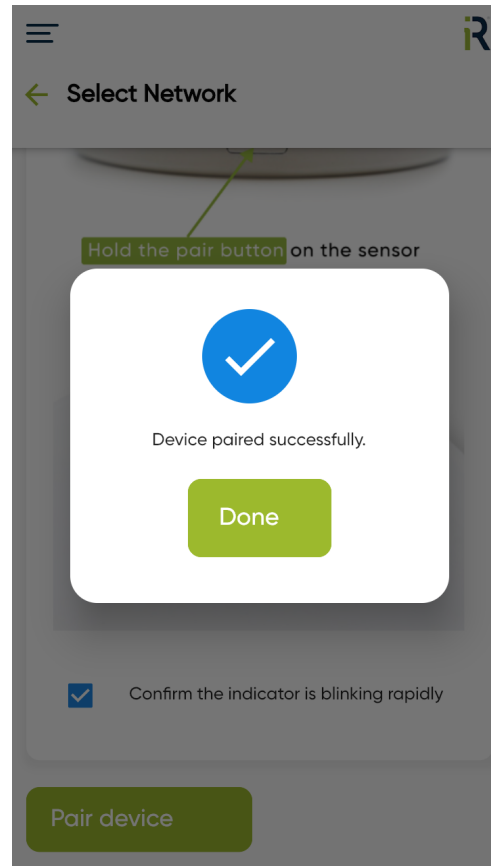
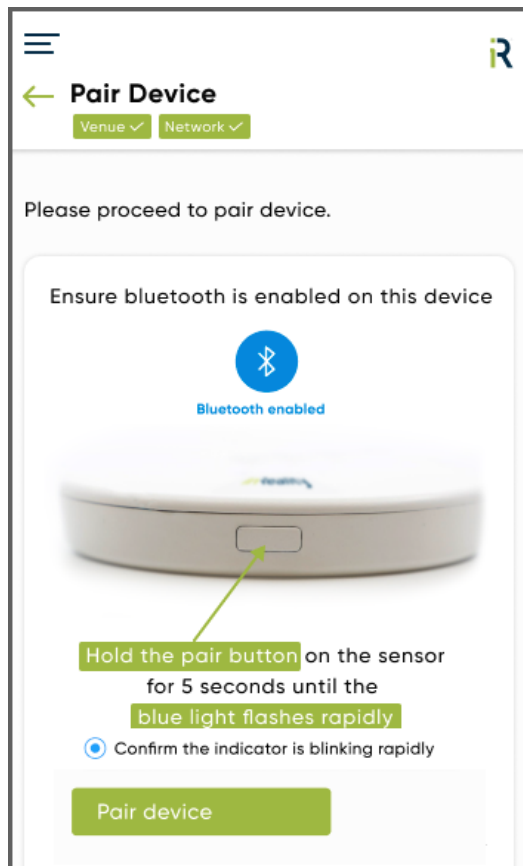
Select Sensor and Venue

- You can select an existing Venue or create a new Venue. If this is your first Sensor, Click 'Add new Venue'.
- Enter the Venue name, click the check mark and enter Address, Time Zone and Business Hours. **Data is only captured during the specified hours.**
- Select the Sensor type: 'Radar Stand-alone', as shown below.
- When finished, click on 'Select Network' to select an available network, and then click 'Next'.



4- Radar Sensor - Device Pairing

- Ensure Bluetooth is enabled on your mobile device; if not click on 'Enable Bluetooth'
- Hold the pair button on the Radar for 5 seconds. When the light is blinking rapidly, click the confirm checkbox.
- Click the 'Pair Devices' button, as shown below.
- Enter the Network Password, and click 'Pair'.
- The message 'Device paired successfully' will be displayed. It may take a minute to pair.
- Click 'Done', as shown below.
- You will then be asked to enter a sensor name. This name is typically used to identify the type of area you will be monitoring and is typically used as reference in visualizations. Click 'Continue' as shown below.



5- Configuration - Wall Mount

The sensor employs algorithms to determine if objects are people or not, then their specific position in the sensor's "field of view". Traffic is defined as all people detected within the defined distance from the sensor. Impressions and Engagement, also have a dwell time condition.

- Enter the height of the device from the floor (feet or meters); use a decimal point if necessary. Recommended height range is 4.5ft - 9ft.
- Scroll down to the 'Sensor Active Area' settings. Click the three green buttons to enter the distance from the sensor and dwell time (sec), which is the amount of time an individual has been detected in front of the sensor.
- Enter these values for Traffic, Impressions and Engagement, and click 'Save and Continue' to save the defined zones.
- The Sensor Validation is automatically run, and the screen should display: 'Validation Successful', as shown below.
- Tap 'Run Live Preview' at the bottom to test the operation.

The screenshots illustrate the following steps:

- Configuration & settings:** Sensor Orientation is set to 'Wall Mount - Cable Down'. The sensor height is set to 4 ft.
- Configure Active Area:** The active area dimensions are defined as 1 ft Left, 5 ft Right, and 11.5 ft Front.
- Configure Metrics:** The sensor tracks three metrics: Engagement (0-4ft, 3sec), Impression (0-7ft, 1sec), and Traffic (0-11.5ft).
- Validate sensor:** The sensor successfully passed all validation checks. A 'Run live preview' button is available at the bottom.

6- Configuration - Ceiling Mount

The sensor employs algorithms to determine if objects are people or not, then their specific position in the sensor's "field of view". Traffic is defined as all people detected within the defined distance from the sensor. Impressions and Engagement, also have a dwell time condition.

- Enter the height of the device from the floor (feet or meters); use a decimal point if necessary. Recommended height range is 4.5ft - 9ft.
- Scroll down to the 'Sensor Active Area' settings. Click the three green buttons to enter the distance from the sensor and dwell time (sec), which is the amount of time an individual has been detected in front of the sensor.
- Enter these values for Traffic, Impressions and Engagement, and click 'Save and Continue' to save the defined zones.
- The Sensor Validation is automatically run, and the screen should display: 'Validation Successful', as shown below.
- Tap 'Run Live Preview' at the bottom to test the operation.

The image displays four sequential screenshots of the inReality mobile application's configuration interface for a ceiling mount sensor.

- Screen 1: Sensor Orientation**
 - Header: Configuration & settings
 - Section: Sensor Orientation
 - Dropdown menu: Ceiling Mount [Current]
 - Section: Ceiling Height
 - Text: Distance from floor to ceiling:
 - Diagram: A 3D perspective view of a ceiling and floor with a vertical double-headed arrow indicating the distance. A green input field shows '8 ft'.
 - Section: Configure Active Area
 - Text: The Active Area represents the entire area in front of your Point of Interest you would like tracked. This Active Area will be used to compute the overall Traffic metric.
 - Note: It is important to install the sensor above the Active Area with the power cord pointed in the direction of the Point of Interest wall
 - Section: Please define the Active Area's Width and Depth
 - Diagram: A 2D top-down view of a rectangular active area. A green input field for 'Width' shows '13.1 ft' and a green input field for 'Depth' shows '11 ft'.
- Screen 2: Position of Sensor**
 - Header: Configuration & settings
 - Section: Position of Sensor
 - Text: Now, let's position the sensor in the Active Area.
 - Text: Specify how far away the sensor is from the Point of Interest (Back) and how far from the left side of the active area (Left).
 - Diagram: A 2D top-down view of the active area with a white circle representing the sensor. A green input field for 'Back' shows '4.8 ft' and a green input field for 'Left' shows '6.6 ft'.
 - Section: Configure Metrics
 - Text: Your sensor tracks three metrics called Traffic, Impressions, and Engagement that are based on a person's proximity to the Point of Interest and how long they dwell.
 - Text: Please specify the proximity and dwell time thresholds for a person to be considered an Impression or an Engagement.
 - Note that Engagement is a subset of Impressions which is a subset of Traffic. This means someone who is Engaged, will also be included in the Traffic Count.
 - Diagram: A 2D top-down view of the active area with three colored zones: a green zone for 'ENGAGEMENT' (0-4.8ft, 3sec), a blue zone for 'IMPRESSION' (0-8ft, 1sec), and a grey zone for 'TRAFFIC' (0-11ft).
- Screen 3: Save and Continue**
 - Header: Configuration & settings
 - Section: Save above configuration settings and continue to validate your sensor.

7- Live Preview

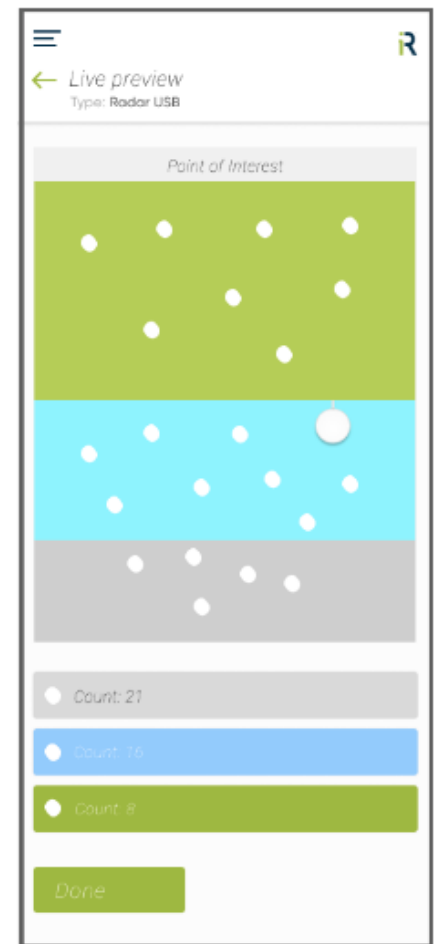
- The Live Preview will display in real time, people detected by the sensor, identifying their zone based on their proximity only (not dwell time). It may take up to a minute for Live Preview to update.
- Tap 'Done' to return to the Home page.
- Here are a few hints to keep in mind while evaluating the sensor and using the Live Preview function:

- *The most reliable and consistent installation is when the Active Area defined does not include any walls or reflective surfaces - these can sometimes cause noise or interference we sometimes refer to as "ghosts".*
- *If people are behind people or people are close together, it can "not see" them.*
- *If people are not moving for a period of time, it can "lose" them until they move again. At that time, they are typically reassigned the same ID and counted as one.*
- *Mounting overhead is sometimes better, depending on the type of traffic. Mounting overhead is sometimes better, depending on the type of traffic.*

Wall Mount



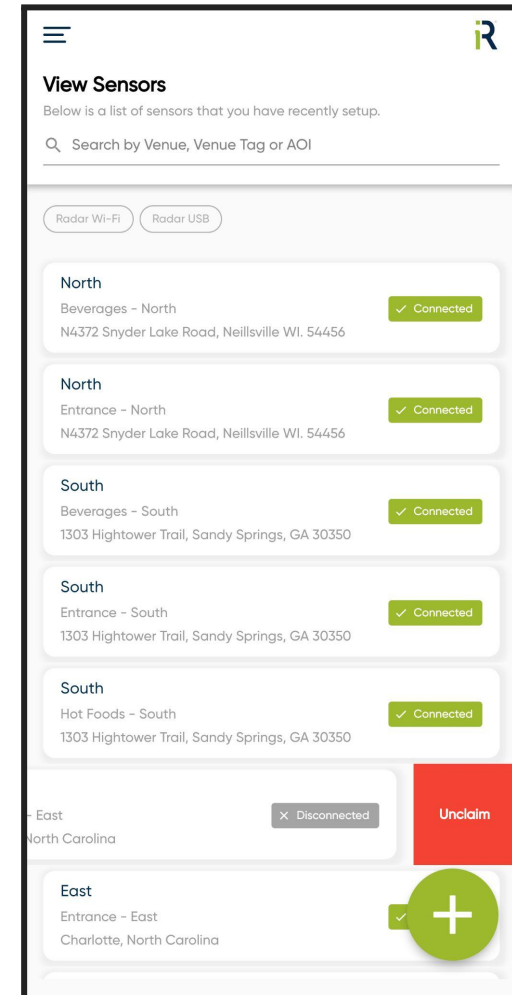
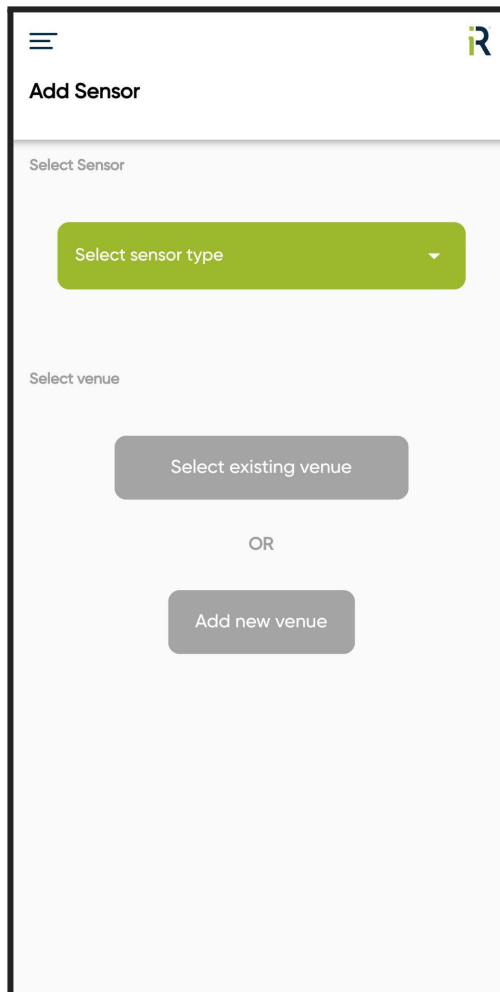
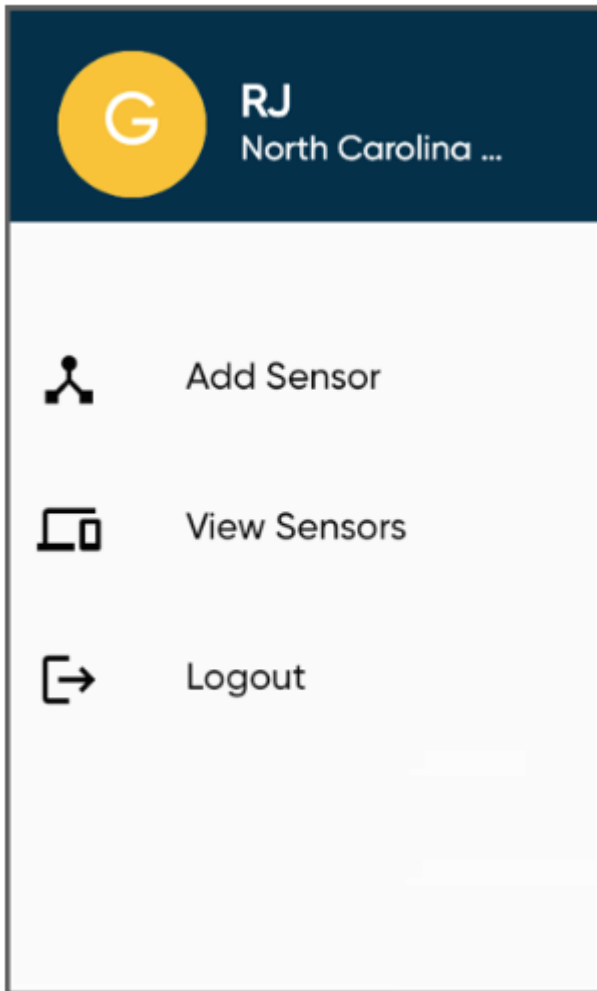
Ceiling Mount



8- Navigation Menu

The Navigation Menu provides quick access to the following from anywhere in the App:

- Add Sensor
- View Sensors
- Logout
- Tap 'View Sensors' to view and edit all configuration settings. On the 'View Sensors' screen, tap the sensor to access the menu options.
- Tap 'Add Sensor' to add another sensor, which will display the 'Welcome to InReality' screen.



9- Unpair a Radar Sensor

To unpair the device, go to the view sensors page and swipe left on the device exposing the unpair button. Tap the button to unpair the device. Then hold the button on the device for 30 seconds until a red light appears and then flashes white. Then power the device off and on to reset.

10- Data on Demand

The InReality Radar product uses 'Data on Demand' as opposed to a yearly subscription. Costs can be limited and managed to meet the needs of various users. To complete the setup of your Radar installation, please see our 'Radar Analytics Platform - Data on Demand - Quick Start Guide'. This [guide](#) provides details on configuring Data on Demand, and using 'Credits' using the AutoPay feature.

11- Troubleshooting Radar Sensor

11.1- If the Configuration is not completed and the sensor validated, the device may need to be reset. To reset the device, hold the button on the device for 30 seconds until a red light appears. Then power the device off and on to reset.

11.2- If InReality has not assigned a License to the sensor, contact InReality Support at: support@inreality.com Once a License has been assigned, reset the device. To reset the sensor, hold the button on the device for 30 seconds until a red light appears, and then flashes white. Then power the device off and on to reset.

11.3- To clear the Venue settings and reset the device, hold the button on the device for 30 seconds until a red light appears. Then power the device off and on to reset the device. We recommend resetting if the pairing fails.

11.4- While configuring the Radar Sensor, you may need to disconnect other bluetooth devices from your phone, if they interfere with the InReality app connecting to the Sensor.

11.5- If you have tapped 'Pair Device' on the phone's app, before pressing the sensor's Pair button, tap the back button to return to the Network page. Then power the device off and on. The sensor is now ready to Pair.

11.6- If the sensor reboots during pairing, and you're unable to complete the pairing, contact InReality Support at: support@inreality.com

12- Radar Documentation

For additional Radar documentation, access our support site and view our guides [here](#).

Below are links to these important guides:

[Radar Analytics - Networking and Firewall](#)

[Radar Analytics - Cellular Tech Tips](#)

[Radar Hardware - Warranty and RMA](#)