eazense

POWERED BY RAYTELLIGENCE

Operation **manual**

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1. Disclaimers

Important safety information

Before you start using the **eazense** sensor, please read the following safety information and intended use carefully:

- According to RF exposure regulations, under normal operations the end-user shall refrain from being closer than 20 cm from the device.
- The intended use of this product is to measure and detect indoor activity, where the product is mounted in the corner of the room at a recommended height of 2.2 meters.
- The minimum optimal range of the product is 50 cm.
- The maximum optimal range of the product is 6 meters diagonally from the sensor and 4 meters along the adjacent walls (X- & Y-coordinates).
- This product can not see through any objects or walls.
- The product can not detect any falls or activities behind furnitures.
- The product may detect pets or children walking or crawling on the floor.
- Any change or modification not explicitly approved by Raytelligence may void the user's authority to operate the equipment.
- The recommended power supply is 48 Volt/4W.

2. Introduction

Introducing eazense

The **eazense** sensor is a non-intruisive, autonomous monitoring system based on Raytelligence's radar technology. The sensor is designed to detect and log various degrees of activities in a room, or notify when a person under observation falls to the floor and can not get up. The device can detect up to 5 people in the room simultaneously.

Monitoring and management of your devices can be done remotely via mobile, tablet or computer via the **eazense** cloud service. The cloud service, **eazense** Portal, contains two major user dashboard, depending on the operator permission and use of service:

- Admin panel: Controlling interface for device managing and administration.
- User panel. Interface for the end user e.g. staff acting on notifications and settings for the device.

This manual will help you set up and install your **eazense** device and configure it in the Eazense Portal.

Support

If you encounter any questions or concerns regarding your **eazense** experience, do not hesitate to reach out to our support team at support@raytelligence.com.

3. Mounting & Installation

Mounting the device

For optimal performance and intended use, **eazense** should be mounted in a corner of the room. Please follow the Quick Installation Guide for a detailed description of the physical installation.

Along with your device follows a guide template, use the circles on the template as an indication of where to place the screws. Place the guide template at the recommended height of 2.2 meters above the floor. If this height is not achievable, mount the sensor as high as possible so there's still room for the ethernet cable to connect to the device. Measure the height from the floor to the sensor and edit the sensor height in the device configurations. See Chapter 4, subsection "Sensor management"

Tighten the screws so they protrude approximately 10mm from the wall.

Network connection

Your device needs to be connected to the internet in order to operate. The device is powered via the ethernet cable with Power-over-Ethernet (PoE). Depending on your environment there are two different options to set up your device. Kindly review the figures below.

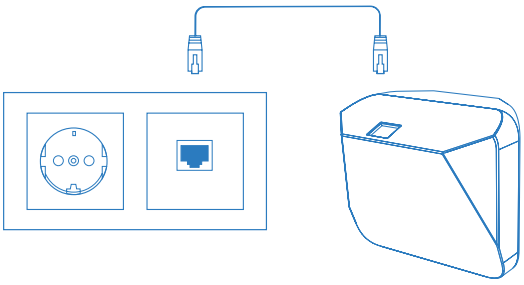

Figure 1

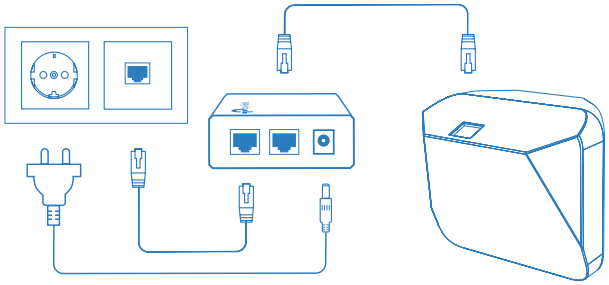

Figure 2

If you have PoE available in your ethernet socket:

- Connect the ethernet cable from your ethernet socket to the device, see Figure 1.

If no PoE is available, then you need to connect a PoE injector (not included in delivery):

1. Connect an ethernet cable from your ethernet socket to the PoE injector.
2. Connect the PoE injector to its power source.
3. Connect the PoE injector to to the sensor device, see Figure 2.

Once connected to a power source **eazense** is online and ready to use.

4. Admin Panel

Web URL: https://portal.eazense.com/eaadmin/

Admin dashboard

The Admin Panel is where the administrator create groups, rooms and users, Here you assign users to groups and add sensors to different rooms in order to organize your devices.

Create a group to add users, sensors and rooms. Each group can contain one or several rooms and each users can belong to one or several groups.

The admin panel consists of the following:

- User authentication
- Home/group view
- Group and room management
- Sensor settings
- User management
- Activity and notification logs
- User Panel

User authentication

To log in to the **eazense** Portal, the administrator will be provided a username and password from Raytelligence or the system provider. Administrators can create and provide credentials for staff permitted only to the User Panel. Enter username and password and click Log in. Log out by clicking the menu in the top right corner.

It is assumed that all terminals (computers, mobile phones, tablets) have their own IT security and that the user has security directives not to leave terminals to unauthorized personnel or other third parties.

Create rooms and groups

The first time the administrator uses the interface the view will be empty except for a plus/add icon. To create your first group, implement the following steps:

1. Create a new group by clicking add a group.
2. Give the group a name.
3. Save the group

Once the group is created it will be displayed on the Admin dashboard.

After you have created a group you need to create a room in the group, provided that you have at least one sensor available. To create a room, implement the following steps:

1. Click on a group and choose "Manage the group".
2. Click "Create new room" and give the group a name.
4. Connect the sensor to the room. The MAC address is located on the back of the sensor.
5. Save the room

By saving the room the assigned sensor is now connected to the room and will be able to send notifications to the users assigned to that room.

Device status

In the group view you can see if a sensor is offline in the lower left corner of each group, where a red text will show up if the sensor is offline, e.g. "1 room offline!"

In the User Panel you can see if the sensor is offline or online denoted by a status bar for the specific sensor.

User management

Click "Manage users" in the Admin dashboard. To add a new user, implement the following steps:

1. Set a username and password
2. Set the phone number to which the user will receive notification.
3. Connect groups to the user. The user will receive notifications related to any of those groups.
4. Save

Sensor management

In the Admin Panel, click on "Sensors" to direct to the list of all available sensors.

Sensor statuses:

- Green = Online
- Grey = Offline
- Red = A fall or activity has been detected and triggered an alarm.

Activation of logs, fall or activity notifications is done from the User Panel by selecting a specific sensor on the dashboard.

To configure a sensor, select "Manage" for that specific sensor. In this view, you can edit the following configurations of the device:

- Activity threshold for activity logging
- Activity threshold for activity alarm
- Fall threshold for fall alarm
- Mounting height
- Room coverage (walls and height of the room)

The **eazense** radar measures activities in centimeters per second, which approximately correspond to the following behaivor, which can be used as a guideline to set the threholds above:

- 0 - 50 cm/s: Some movement, either a slow walk or any seated or horizontal movements.
- 50 - 100 cm/s: A normal walking movement, slow to moderate speed.
- +100 cm/s: Fast movement, eiher a high speed walk or running.

To restore the default settings, click the reset button at the bottom of the screen. Reboot the device after change of settings.

Notification and activity reports

All activities and notifications are logged and can be found in the menu located in the top right corner.

You can download two different logs:

- Activity: Logs containing all activities for all sensors
- Notifications: Log with all notifications sent by all sensors.

By clicking one of the options, the data will be downloaded as a .csv file.

5. User Panel

Web URL: https://portal.eazense.com/eastaff/

User Dashboard

The User Panel is the interface for the end users acting on notifications and viewing activity logs. This simplified panel consists of the following:

- User authentication
- Home/room view
- Notifications
- Activity logs

The administrator can access the user interface directly from the Admin Panel by clicking on the menu in the top right corner.

In the User Panel dashboard, users can see the rooms of the groups that the admin has given access to. Select rooms in the list to the left. Click on a specific sensor and select "Settings" to toggle logging or to disable/enable SMS notifications for detected fall or exceeded activities. The sensitivity of the activity alarm is set here and described in further details above, see "Sensor management" for more information.

If no logging is enabled, the sensor will only send notifications if the device goes offline.

User profile

Edit the user credentials by clicking on the menu icon in the top right corner and selecting "User profile". The user can edit personal information, such as phone number and password.

Notifications

In the event of a triggered alarm, notifications will be sent via SMS to every user that is assigned to the group. The SMS contains a link to the user interface and information about the sensor that triggered the alarm.

Notifications will be sent when:

- The sensor goes offline
- The sensor registers a fall
- The sensor registers an activity in the room

As soon as someone clicks the link, they will be redirected to the notification view displaying the concerned room. The user must acknowledge the event, thus responding and taking action to the triggered event. This action is logged. Once the user has tended to the situation he / she shall press the close notification button, also be logged and timestamped. This final vidimation restores the sensor to the normal state.

If the user is currently using the interface when a notification is triggered he / she will also be alerted in the user view and receive an SMS.

The following text will be sent to the user after a notification is triggered:

NOTIFICATION> notification: https://portal.eazense.com/eastaff/notification/eazense_XXXXXXXXXXX

The X's represents the sensor ID. Follow the link to acknowledge the notifaction in the **eazense** user interface.

Notification logs

Select the menu in the top right corner and click on "Notifications".
In the notification log view the user will be able to see the history of the last 24 hours triggered notifications from the sensors assigned to the user.

Activity logs

Select the menu in the top right corner and click on "Activities".
In the activity log view the user will be able to see the history of the last 24 hours detected activity from the sensors assigned to the user.

Thank you for choosing
eazense by **Raytelligence**

For more information visit raytelligence.com/eazense

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