OEM Engineering APP User Manual

Revision History

Date	Version	Description
May 2025	V1.0	First release

OEM engineering app is only provided for OEM(original equipment manufacturer),which is used for pre-shipment test to ensure that the sensor function is intact so that it can be shipped normally.You can download the OEM engineering app, which is currently only available for iOS, because this app is not yet available on the Apple Store, so users need to provide UDID first, and then download it according to the download link provided by Koolmesh.

There are two ways for you to check your UDID:

1.If you have any Apple Mac laptop or computer, you can connect your iPhone or iPad to the Mac, then open the iTunes to check your device UDID.
2.Attached link https://www.pgyer.com/tools/udid for you to check the UDID, but you need to open this link and download the configuration profile, then go to your iPhone or iPad setting, in the device management, install this profile, after install the profile successfully, then go back to your browser to get the UDID. We have a how-to video for your reference.

After the download is completed, click the app icon to open the OEM engineering app.

   If there is a prompt "Developer permission required", you need to go to your phone Settings - Privacy &Security - Developer Mode (on) to use it normally.(see figure 1.1-1.2)
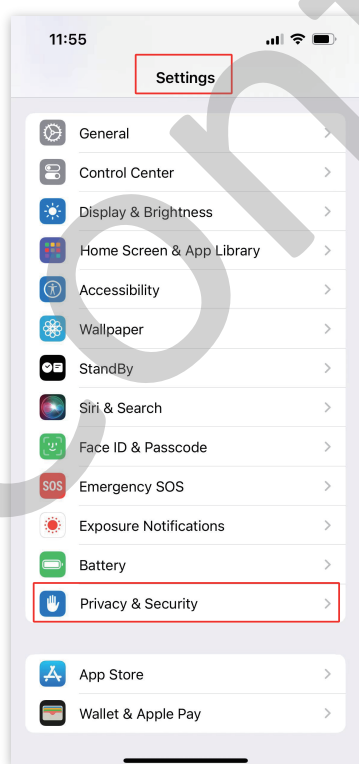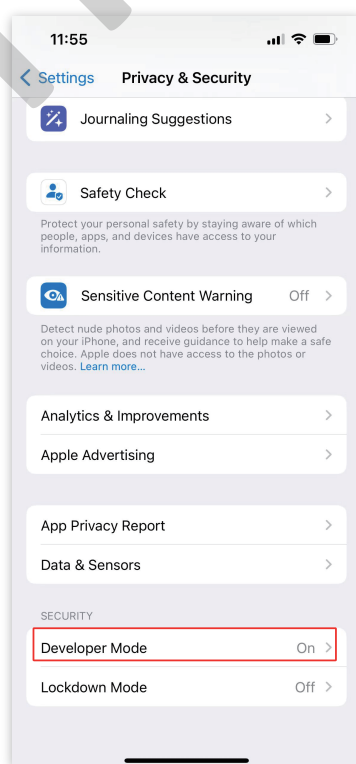

Figure 1.1   Figure 1.2

💡 Device

After opening the app,we come to the Device page first.Users can click ➕ in the top right corner to add the device.Before adding the device,users need to click on "identify" to confirm adding the right device.
On "Add device" page,when you turn off "Add to different room",the device will be added to the same room,vise vasa.
When you turn off "Auto add to network",then you need to add the device to the network manually,vise vasa.You can add all the devices after identification by clicking "Select all" on the top right corner to make the operation easier.
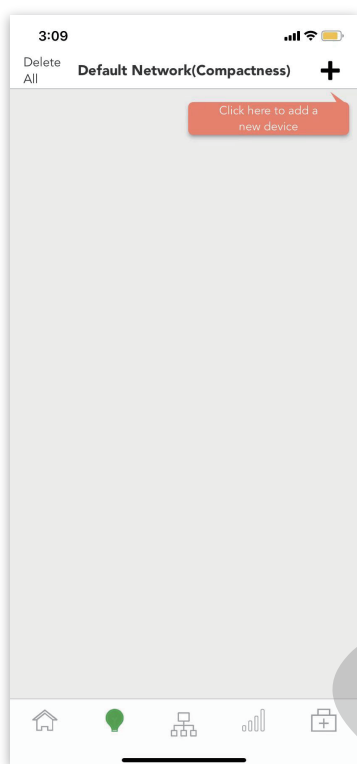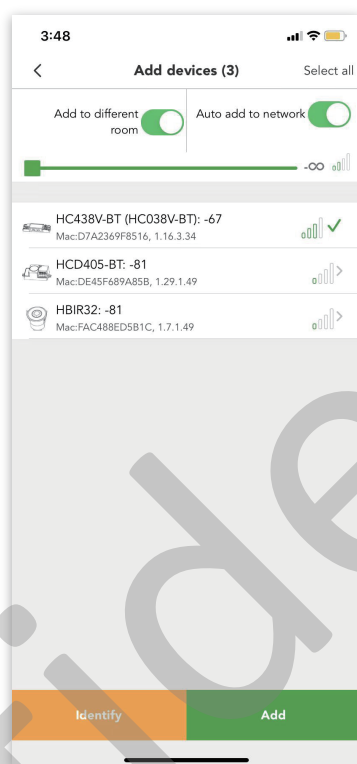

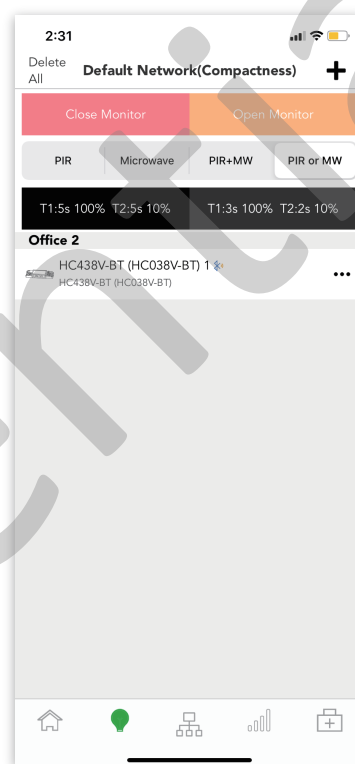| **Figure 2.1** Add device1 | **Figure 2.2** Add device2 | **Figure 2.3** Test page |

After adding the device,we can see the most important part of this app-motion sensor function test page.

Click on 'Open Monitor",we can see the lux value of the daylight sensor(see figure 2.4),click on "Close Monitor",then we cannot see the lux value of the daylight sensor.

There are 4 types of motion sensors according to different sensor technology,which are PIR,Microwave,PIR+MW and PIR or MW.Users can choose according to the type of devices they want to test.

There are 2 default settings for motion sensor,which are "T1:5s 100% T2:5s 10%" and "T1:3s 100% T2:3s 10%".
"T1:5s 100% T2:5s 10%" means when movement detected,the luminarie will light on 100% brightness for 5s,and when no movement detected,the luminarie will light on 10% brightness for 5s,then turns off.Similarly with "T1:3s 100% T2:3s 10%".
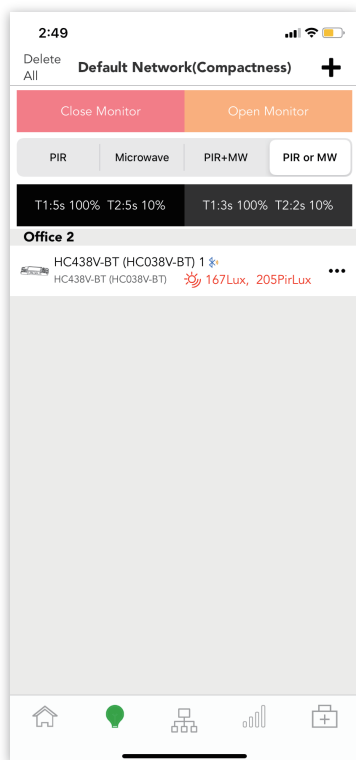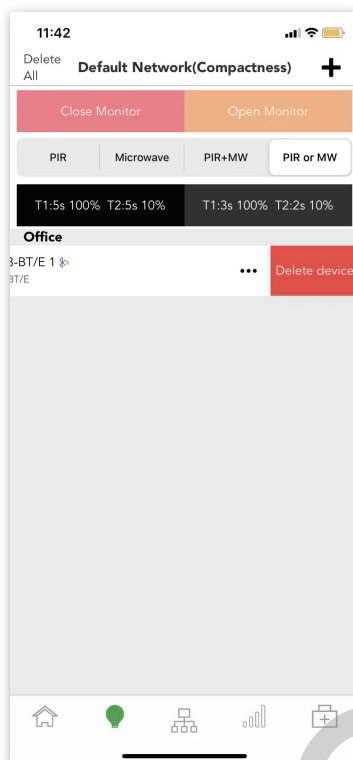
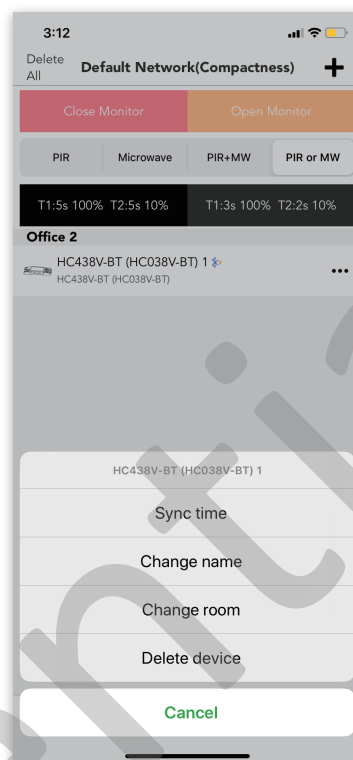**Figure 2.4** Open Monitor

Figure 2.5 Delete device1

Figure 2.6 Delete device2

If the sensor can operate according to the settings, then the sensor is functioning properly, and after the test is complete, please do delete the device so that the next user can use it normally.

There are 4 ways to delete the device:

1.Slide left to delete the device.(see figure 2.5)

2.Choose "delete device" by clicking on ⋯ (see figure 2.6)

3.Reset the device(please see the Reset Device part)

4.If there are many devices,we can use "Delete All" in the top left corner of the page to delete all the devices at one time.

🔲 Reset Device

The reset function is used to retrieve the device that failed to be deleted, and if the device is still on the current network, using the reset function is equal to the delete function.At this time,if you delete the device in the Device page,it will pop out"Delete failed,Force delete?"(see figure Force delete)

If you filter on the Group page, only that type of device will be displayed on this page. (see figure Reset).After a successful reset, the device can be added to the network test as normal.
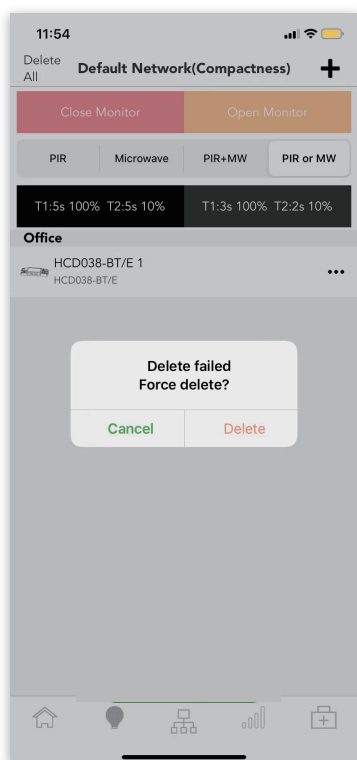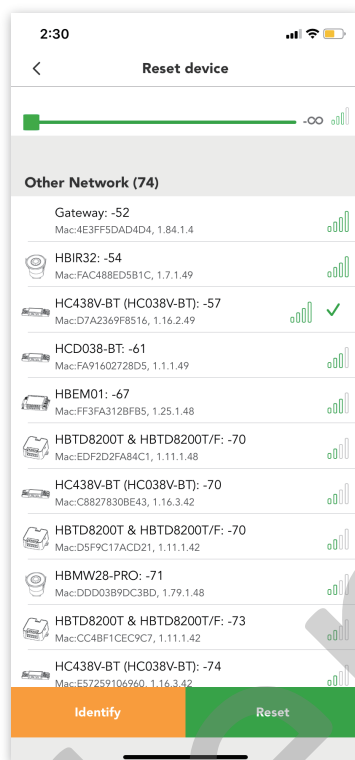
Figure Force delete

Figure Reset

On the test page,click on ··· ,we can sync time,change name of the device,change room of the device.If there is no other room,we can add a new room if needed. We can also choose "delete device" on this page or slide left to delete the device.If there are many devices,we can use 'Delete All' to delete all the devices at one time.(see figure 2.6-2.8)
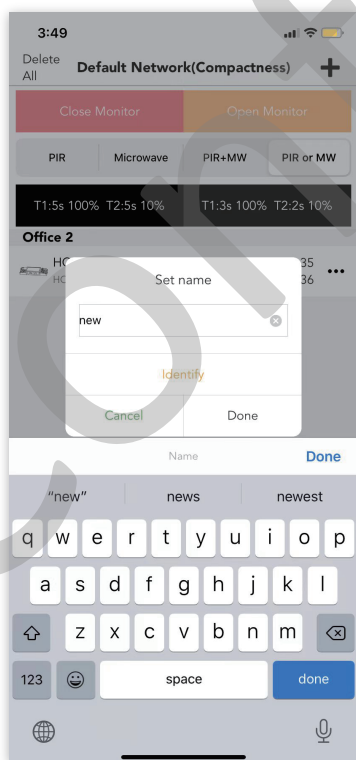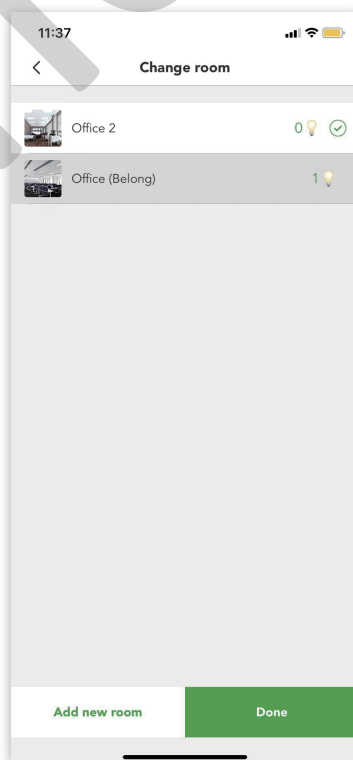

Figure 2.7 Change name

Figure 2.8 Change room

🏠 Homepage

In homepage,you can control the luminaires by turning on or off,and adjust the brightness or color temperature of the luminaires.Clicking on ☰,we can manage the network by adding a new network or deleting a network.When deleting a network, you need to enter the password, and the password can be any number.
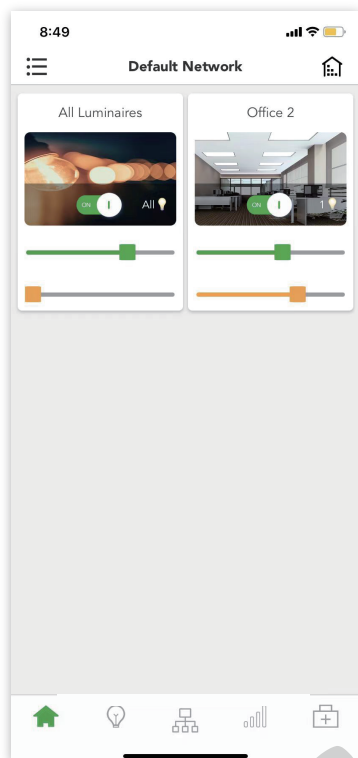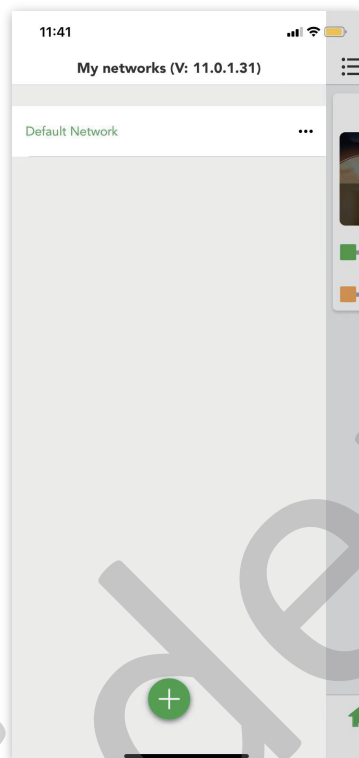

Figure 3.1 Network Management
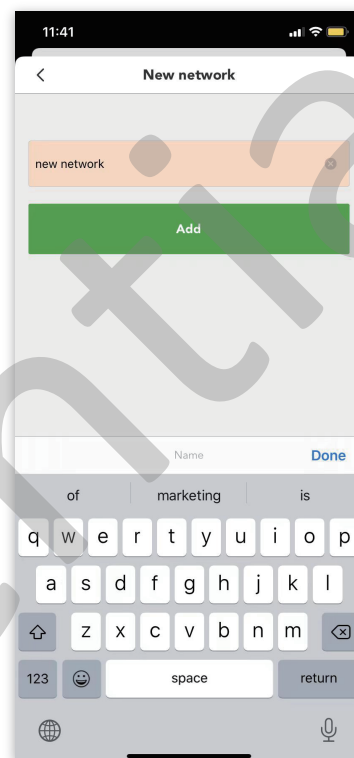

Figure 3.2 Add a network 1

Figure 3.3 Add a network 2
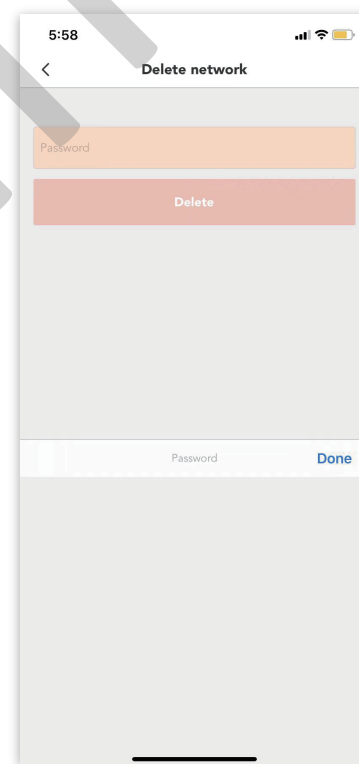

Figure 3.4 Delete network

Figure 3.5 Password

⊟ Group

On the grouping page, all the Hytronik products you have added will be listed for you to filter. Select the device you need to test and filter out the others, which can make your operation easier, especially if you have a lot of devices in your network.

※**Once all testing is complete, remember to remove the filtering, otherwise it will affect the adding and testing of next new devices.**
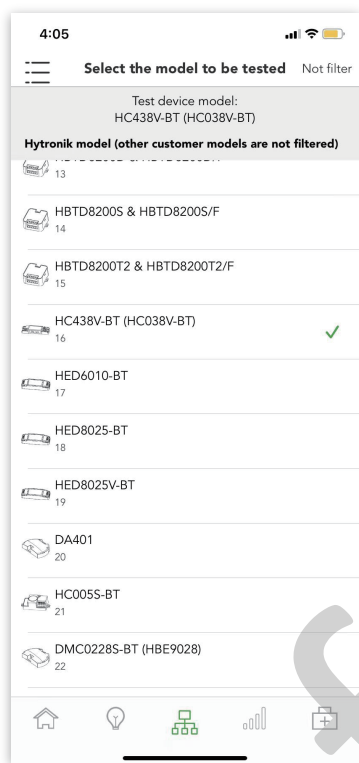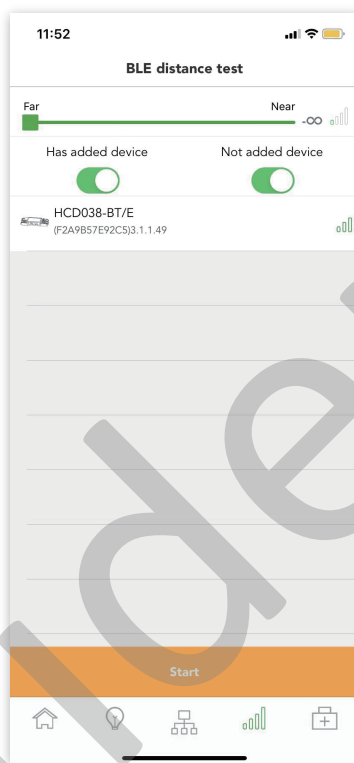

Figure 4.1 Filter

Figure 5.1 BLE distance detect

Ⅲ Bluetooth Distance Test

The Bluetooth Distance Test can test the distance between the phone and the Bluetooth device. When within Bluetooth range, select the device and tap Start, the device will start flashing. If the distance between the phone and the device exceeds the Bluetooth range, the device is unresponsive. It should be noted that once you tap to start the Bluetooth distance test, the light will keep flashing, and you can choose to repower the device to stop it, otherwise it will flash 100 times.

 After filtering on the Groups page, only the selected device will appear on the page, so you can narrow down your selection.You can also choose "Has added device" or "Not added device",which can make your operation easier.