

## BaldurTouch II Street Light Controller Instruction



Product Name: BaldurTouch II

Product Model: EMLLC-B10-915A11-G0

Version: V2.0

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## 1.Product Introduction

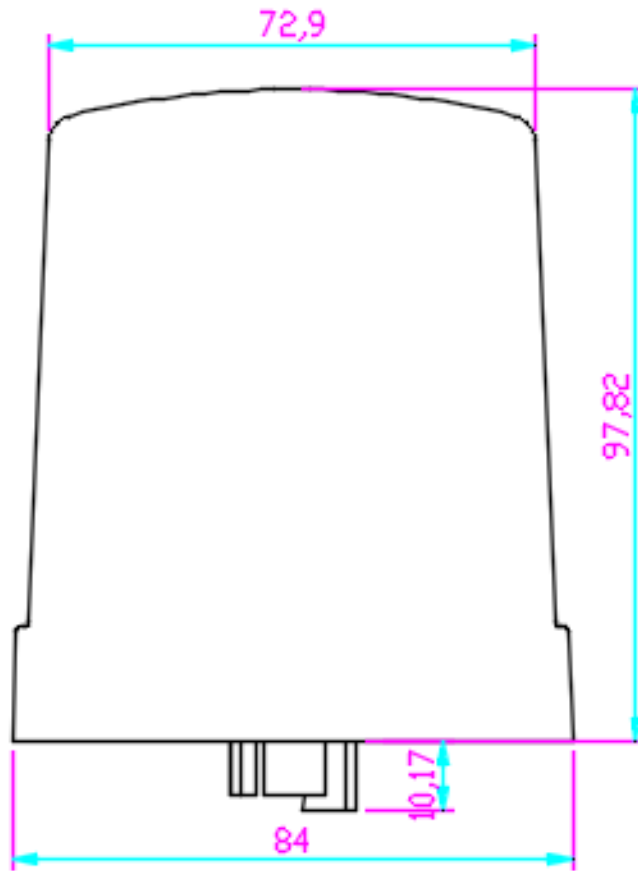
### 1.1 BaldurTouch II Street Light Controller Introduction

BaldurTouch II Street Light Controller is applied in the field of intelligent road lamp, using LoRa technology. It is solely developed, manufactured, and marketed by E-MAGA Interconnect. This product is characterized by long distance transmission, low power consumption, and high stability. It uses international standardized NEMA port, which results in convenient and speedy installation plus disassembly. Users can take advantage of WEB or APP to monitor the road lamps in a real time fashion at any chosen location, operate the lights from a long distance, and timely maintain them. All of these make Intelligent Lighting a reality.



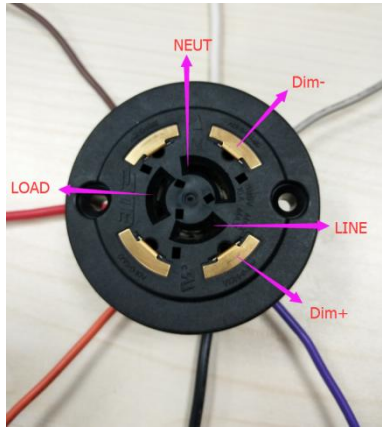
**Picture 1-1 BaldurTouch II Street light Controller**

1.2 Dimension

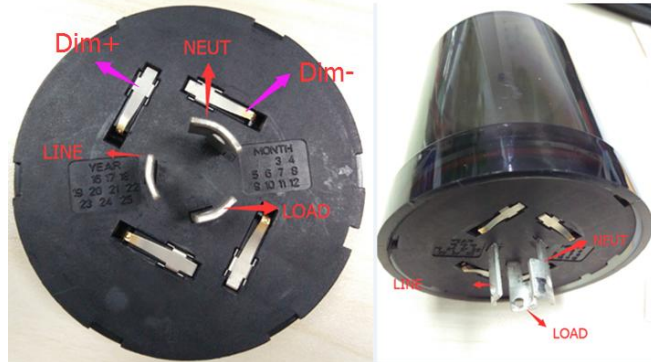


Picture 1-2 BaldurTouch II Street Light Controller Dimension

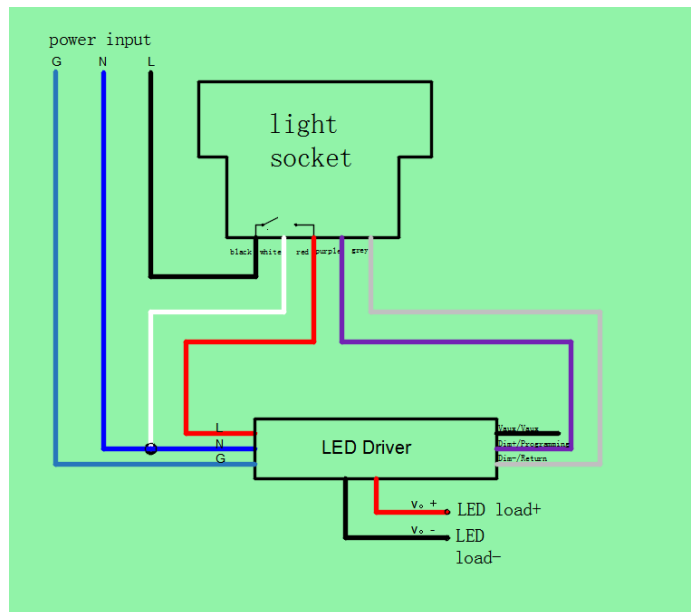
### 1.3 Definition of Wire Connection of the Holder



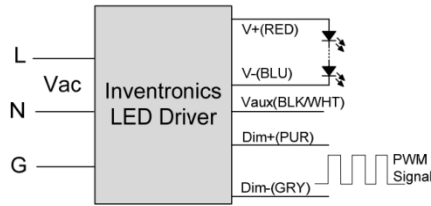
Picture 1-3 Holder Wire Connection



Picture 1-4 BaldurTouch II Holder Wire Connection



Picture 1-5 Power Supply Connection



**Picture 1-6 Power Supply Connection 2**

**Table 1-1 Power Supply Connection**

External Input	Power Supply Switch	Holder	Street Light
\	L (black)	Red Wire (LOAD)	LOAD
N	N (white)	White Wire (NEUT)	NEUT
G	G (Green)	\	\
L	\	Black Wire (LINE)	LINE
\	Dim+ (PUR)	Purple Wire (Dim+)	Dim+
\	Dim- (GRY)	Gray Wire (Dim-)	Dim-

#### 1.4 Characteristics of Street Light Controller

- Users can either use PC WEB interface or mobile phone APP to achieve remote road lamp control, such as group lighting control and single lighting control, etc.
- The BaldurTouch II lighting controller can monitor street lights in a real time fashion, including detecting parameters like current, voltage, power consumption. A report can be produced after processing and completing statistics work in the cloud.
- The software system can integrate manual maintenance and auto maintenance alerts, with timely malfunction information reported, which reduces street light maintenance costs. Lighting control system would monitor street lights in a real time fashion, which means system can detect and report malfunctions as soon as it occurs. Users can also report a malfunction of a certain street light manually, by WEB interface or APP.
- When the lighting control system receives information of reported malfunction, it deploys maintenance staff automatically, through email and mobile phone alerts. After finishing maintenance work, the system maintenance blog can be updated through APP. This certain malfunction information in the system can be eliminated as soon as relevant staff confirms the eradication of malfunction.
- BaldurTouch II lighting controller is equipped with photocell sensor, which is capable of automatically controlling light brightness and switch on/off function, as per to illumination intensity in the external environment. This results in saving energy.
- BaldurTouch II is characterized by long-distance transmission, low power consumption, strong anti-interference, and high stability.

## 2、Technological Parameters

Table 2-1 BaldurTouch II Street Light Controller Technological Parameters

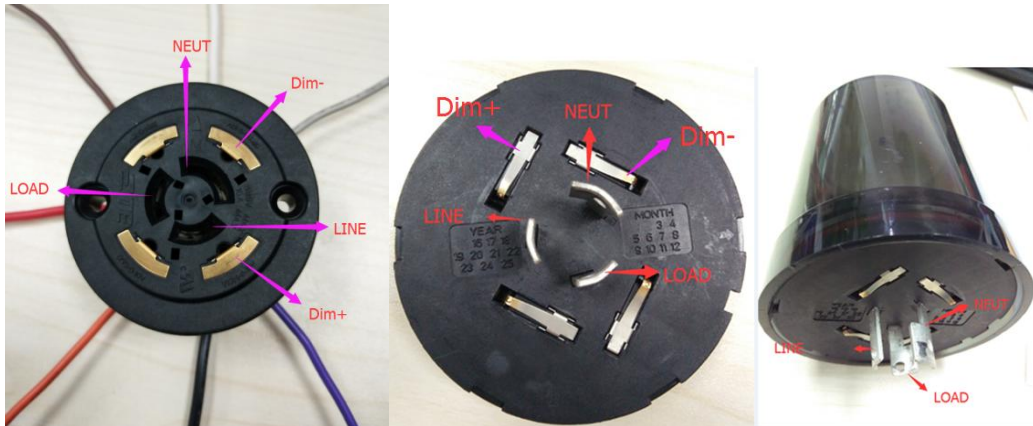
Processor		ARM Cortex-M3
LoRa	Channel Range	902MHz-928MHz
	Sending Power	PMax<=1W
	Receiving Sensitivity	-125dBm~-140dBm
	Antenna Model	PIFA Antenna
	LoRa Module Working Current	LoRa Module Sending Instant Current: less than 120mA
Photocell		0.01lux~83K lux
Working Voltage		100~277V AC
Working Frequency		50/60Hz
Power Load		1000W
Working temperature		-30~75℃
Energy Consumption Detecting Accuracy		±1%
Dimension		R=34.5mm
Protocol		LoRaWAN Specification 1.0.2



### 3. Installation Guidance

#### 3.1 Street Light Controller Installation

- A. Match the three pins on the BaldurTouch II controller with the three sockets on the holder, and then screw the two parts clockwise, as shown below.



Picture 3-1 BaldurTouch II Controller and Holder



Picture 3-2 Street Light Installed Lighting Controller

#### 3.2 Network Connection Operation of Street Light Controller

##### 3.2.1 Account Login

- A. Login the website: <http://www.loramind.com/>, and then choose the network server where the customer is located. For instance, if the customer is in China users need to select "China".



**B. Select “Baldurmind”.**



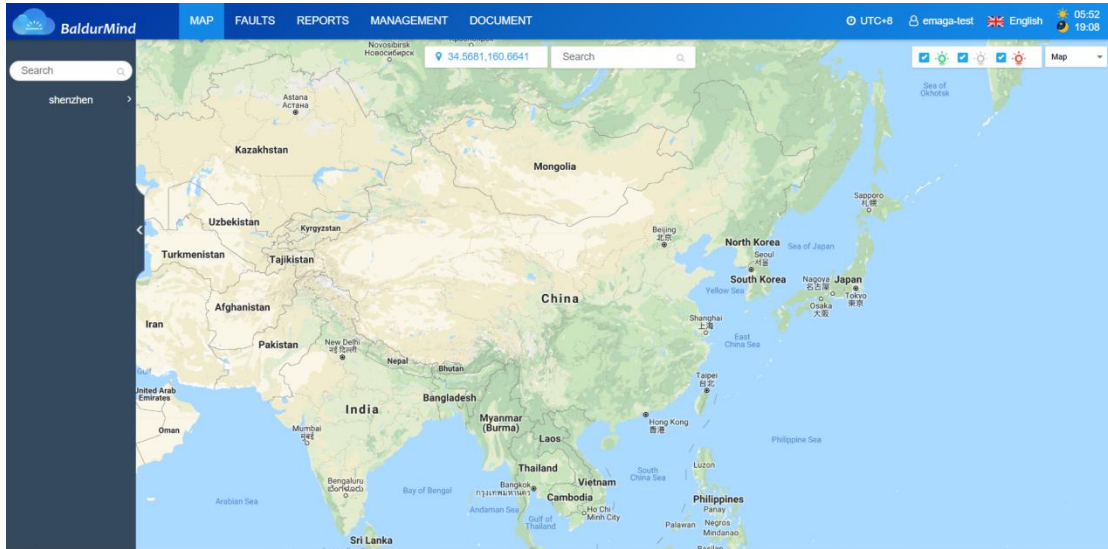
**C. Type in user name and password to login in the account.**

The image shows a user login interface on a dark blue background. On the left is a large 3D-style logo for 'BaldurMind' featuring a cloud and a brain. On the right is a white login form titled '用户登录' (User Login). The form contains the following fields and elements:

- A text input field for '用户名' (Username).
- A text input field for '密码' (Password).
- A checked checkbox for '记住密码' (Remember password).
- A blue '登录' (Login) button.

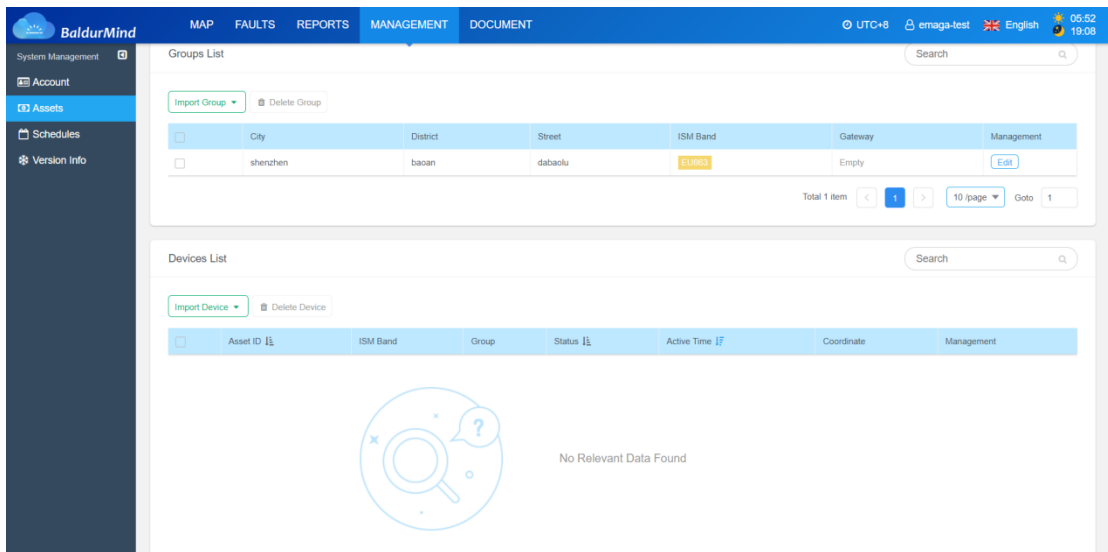
The version number 'V1.1.2' is visible in the top right corner of the interface.

**D. Enter BaldurMind Main Interface**

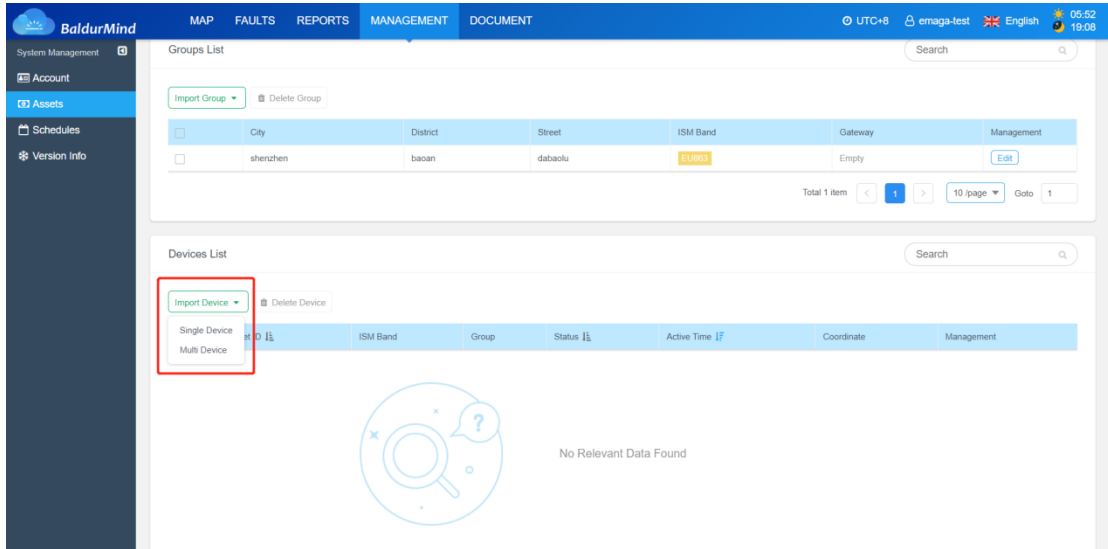


### 3.2.2 Add BaldurTouch II Street Light Controller

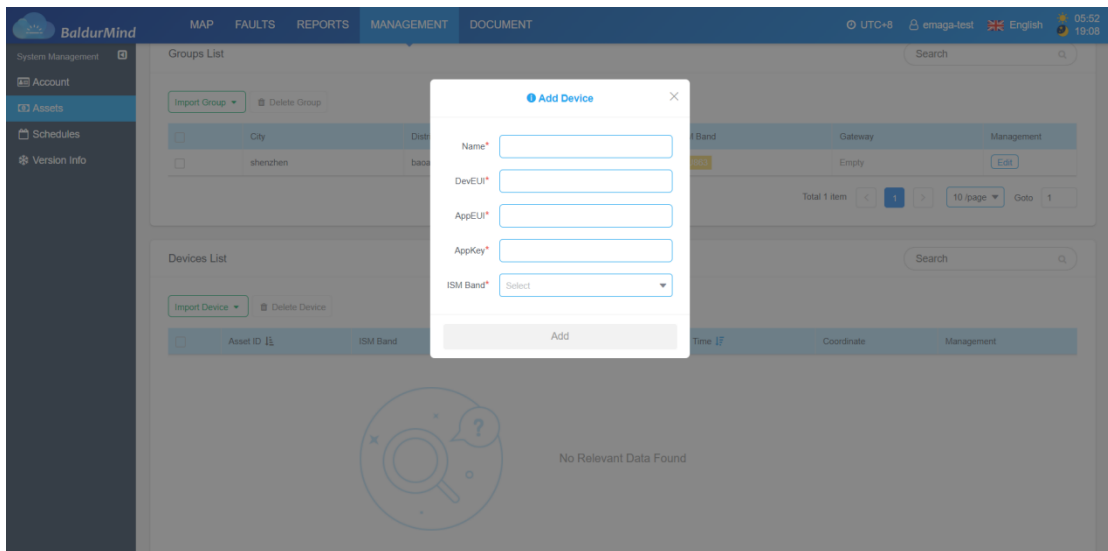
- A. Edit BaldurTouch II by successively select: System Management, My Asset, and Device Menu.



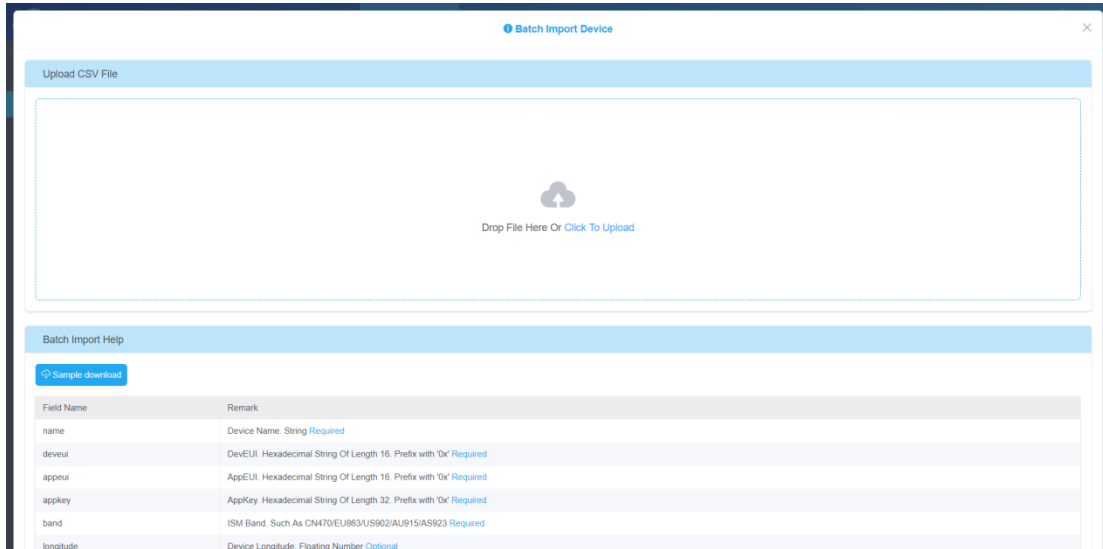
- B. Click import device, choose single device or multiple device



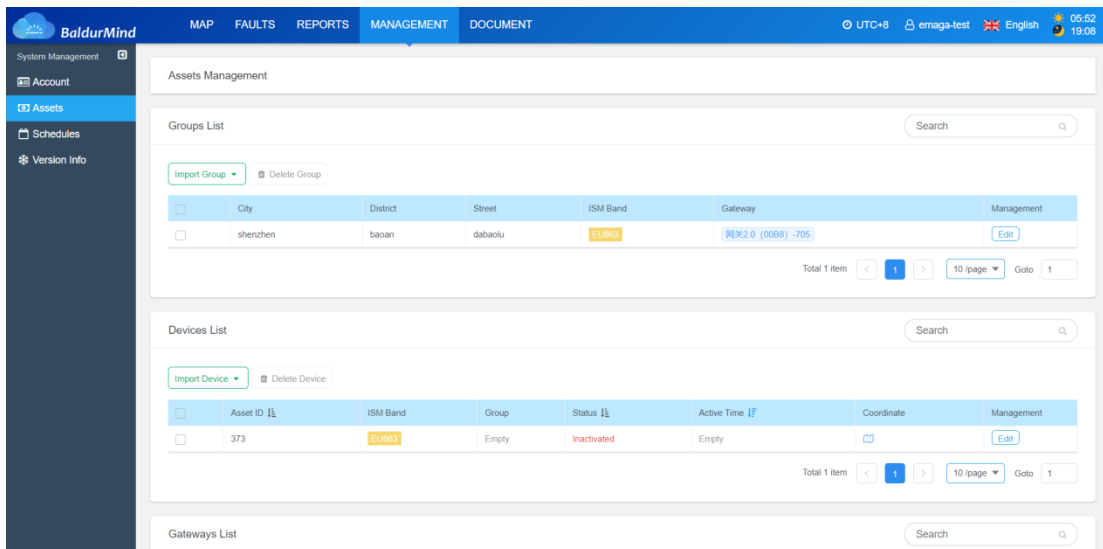
B1. Import single device: fill in required information for the device and then click ADD.



B2. Import multiple devices: user can obtain SCV document as per to importing instruction to import the device information.

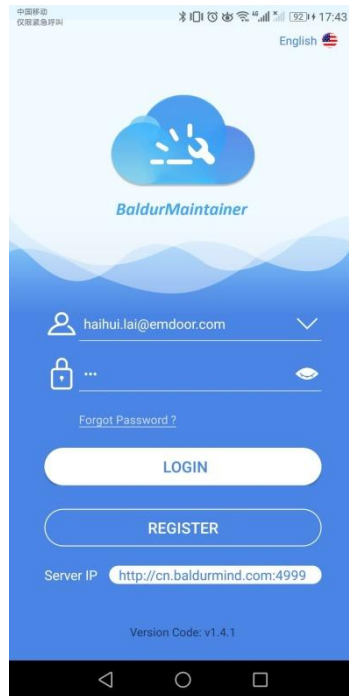


C. Use APP ( baldurmaintainer ) to activate the device after importing the device information.



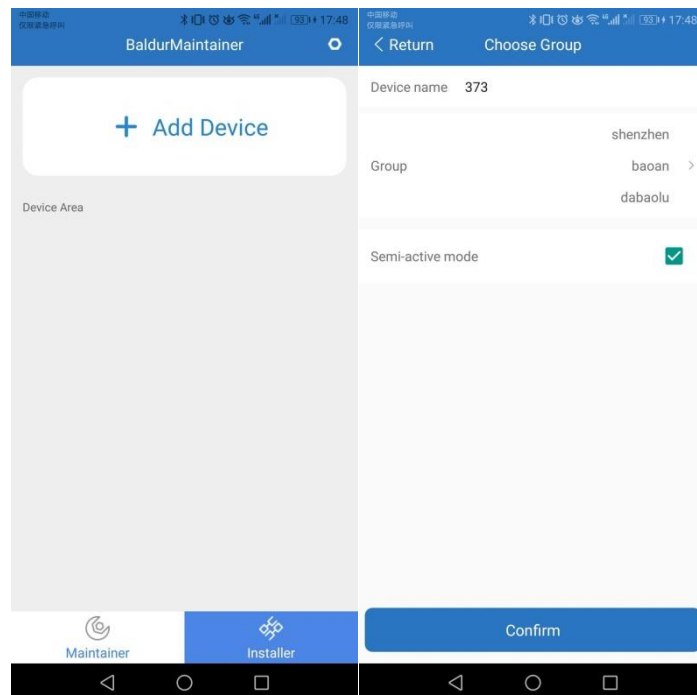
### 3.2.3 Activate the controller by APP version of baldurmaintainer

- A. Open the APP of BaldurMaintainer on the cellphone and then enter account name, password, and server location to login. The account name is the email address of maintenance staff, which is set in the PC version of n baldurmind. The initial password is 123, and it can be changed after logging in.



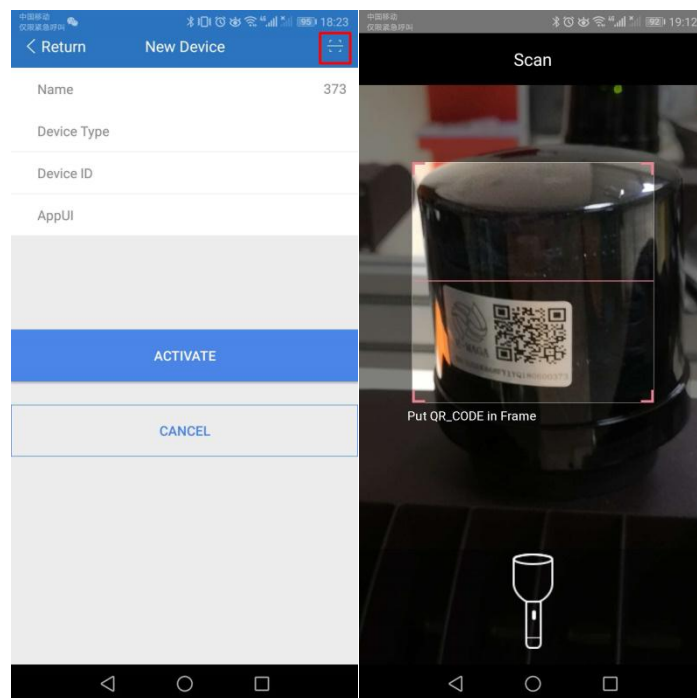
- A. Choose installation interface and then click “add device” button. Enter the grouping interface and then type in the device name. Choose installation grouping and then click half-activated mode.

Note: Half-activated, device will be half-activated by using app to scan the QR code without device being powered on. User can add the group information and GPS coordinates of the device by this stage. Device will be fully activated after powering on.

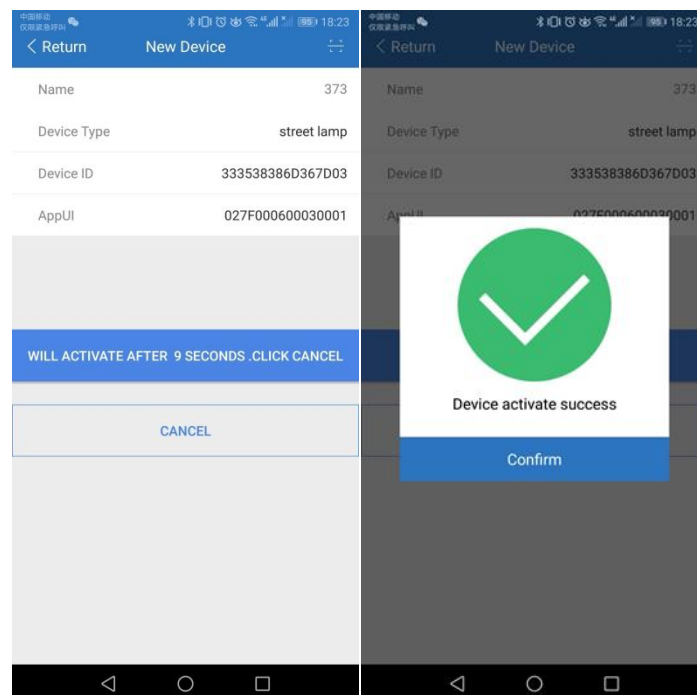


- B. Click “Confirm” to transfer to “New Device” interface, then click the scan icon on the

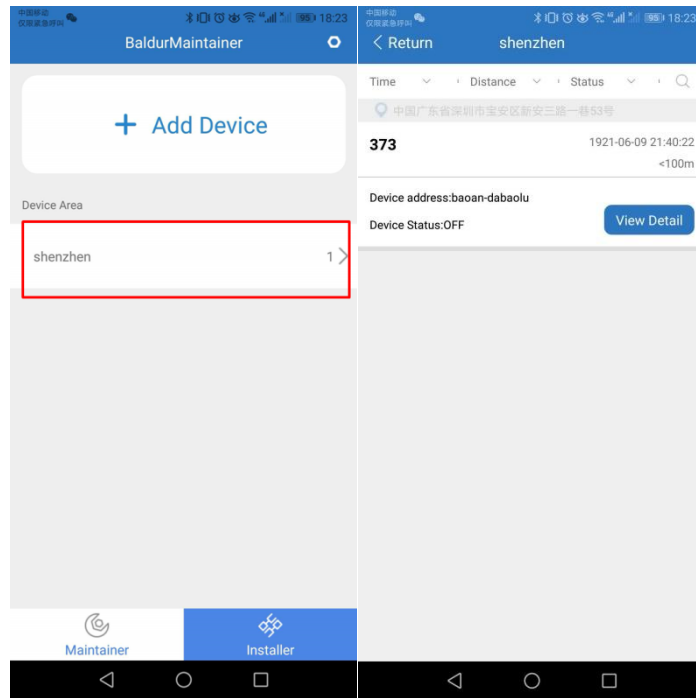
top-right position, and use the scanning window to scan the QR code on the controller.



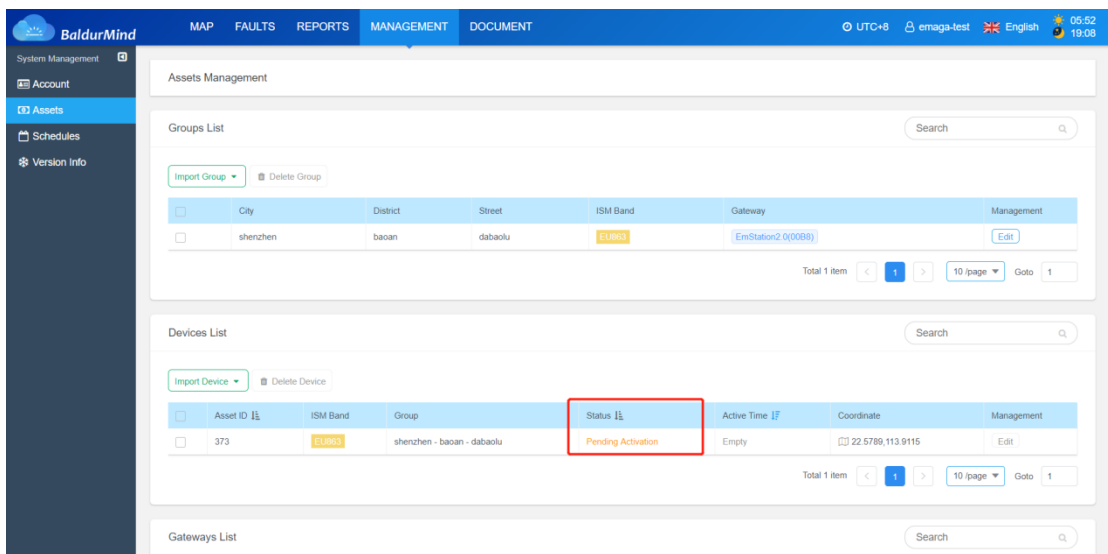
C. If the QR code has been scanned successfully, it will automatically enter the 10s countdown activation process. After being successfully activated, "Device activate success" will pop up.



D. By now, user can select certain light group to see the activated devices information within this group in the installation page.



- E. At the same time, user can find that the device is at half-activated status in the device list of BaldurMind on PC side.



- F. After powering on the light, the device status will display as “fully activated” on the device list of BaldurMind on PC side. Now the light can be controlled by the controller via BaldurMind.



BaldurMind MAP FAULTS REPORTS MANAGEMENT DOCUMENT UTC+8 emaga-test English 05:52 19:08

System Management Account

Assets Schedules Version Info

### Assets Management

#### Groups List

Search

Import Group Delete Group

<input type="checkbox"/>	City	District	Street	ISM Band	Gateway	Management
<input type="checkbox"/>	shenzhen	baonan	dabaolu	E18863	EmStation2 0(00B8)	Edit

Total 1 item < 1 > 10/page Goto 1

#### Devices List

Search

Import Device Delete Device

<input type="checkbox"/>	Asset ID	ISM Band	Group	Status	Active Time	Coordinate	Management
<input type="checkbox"/>	373	E18863	shenzhen - baonan - dabaolu	Activated	2018-07-25 18:50:33	22.5788, 113.9115	Edit

Total 1 item < 1 > 10/page Goto 1

#### Gateways List

Search

## 4、 Common Problems

### 4.1 User cannot control the light controller (1)

Reason: Base station is unconnected.

Approach: Street light cannot be controller either by WEB-based BaldurMind or APP, unless there is at least one base station being connected. Check the connection status of the base station, if unconnected, please check the base station until it has been successfully connected.

### 4.2 User cannot control the light controller (2)

Reason: The IP Network Connection of Base Station has not been completed when light is powered on.

Approach: If the IP Network Connection of Base Station has not been completed when light is powered on, or Base Station has been changed, the light must be re-powered on to join the network again.

## 5、Cautions

- When you install the light controller, the pins on the bottom of the controller must be matched correctly with the receptacle on the street light, please refer to picture 1-3 and picture 1-4;
- Do not power on the light during installation. Please turn off the power before taking off the controller;
- Power indicator is green, network indicator is blue. Green indicator will be constantly lit on after powering on, blue indicator will be off after a short period of lighting, and when network connection is established, it will be lit constantly as well;
- BaldurTouch should be used at places as far away as possible from any metal environment, or it will affect the communication distance.

## 6 、 FCC Label:

Size:L=40mm,H=30mm



## 7 、 Manufacturer&Importer

Manufacturer:

Emaga InterConnect Technologies Co.,Ltd  
8/F, jinfulai Mansion, No.49-1, Dabao Road, Baoan 28 District,  
Shenzhen, China

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## FCC Note:

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

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.

This device and its antenna(s) must not be co-located or operating in conjunction with any

other antenna or transmitter.

**NOTE:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**To maintain compliance with FCC' s RF Exposure guidelines, The 20cm is the minimum distance that has to be maintained between your body and the device.**