ELLUMIN
Cloud Warning System

ISO 9001

SMART PEDESTRIAN SYSTEM

—— SUBURBAN TYPE

SMART PEDESTRIAN SYSTEM

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SMART PEDESTRIAN SYSTEM

The drivers have blind spots and the traditional pedestrian signs have bad warning effect.These two severe problems have survived for a long time which cause many of the terrifying traffic accidents.Ellumin company faces challenges, improves technology,optimizes product for solving remained unsolved traffic problems.

The Smart Pedestrian Crossing Sign adopts a new technology of edge lit. Infrared sensing system detect pedestrian movement for actuating warning system & illuminated system.

1.FUNCTION

1.1At day:
-The system is dormant when doesn't detect pedestrians.
-When the sidewalk system is triggered, the pedestrian sign and the embedded road studs will flash simultaneously,the voice alarming will turn on.
1.2At night:
-The system is dormant when doesn't detect pedestrians.
-When the sidewalk system is triggered, the pedestrian sign and the embedded road studs will flash simultaneously,the voice alarming will turn on.

2.FEATURES

2.1 Two patterns of activating way:Automatically Detecting Device & Touch Button to ensure the system.

2.2 Edge Lit Sign has flash function which has excellent visibility and outstanding warning effect for drivers.

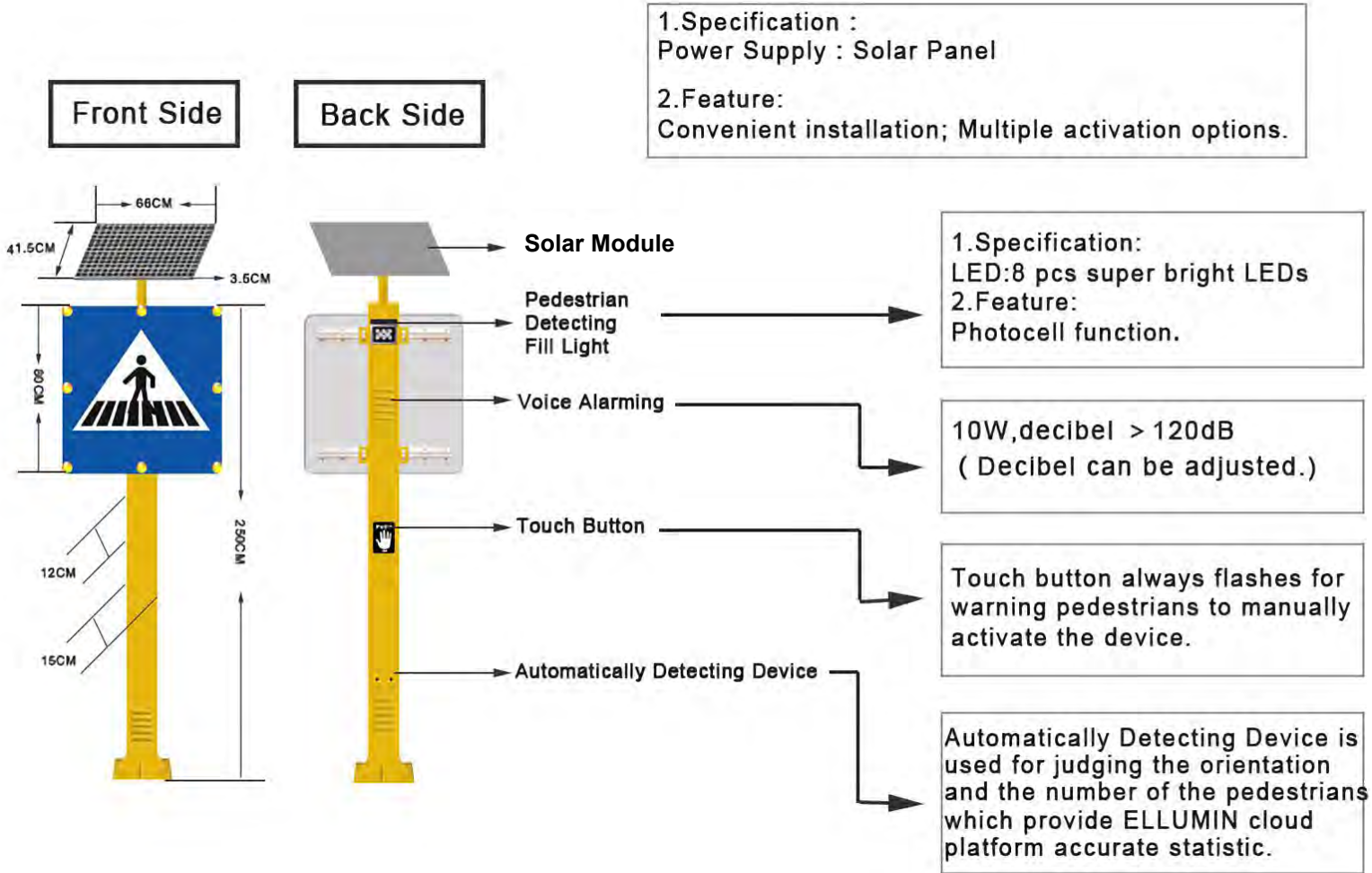2.3 Voice Alarming can use custom voice for warning drivers and pedestrians.
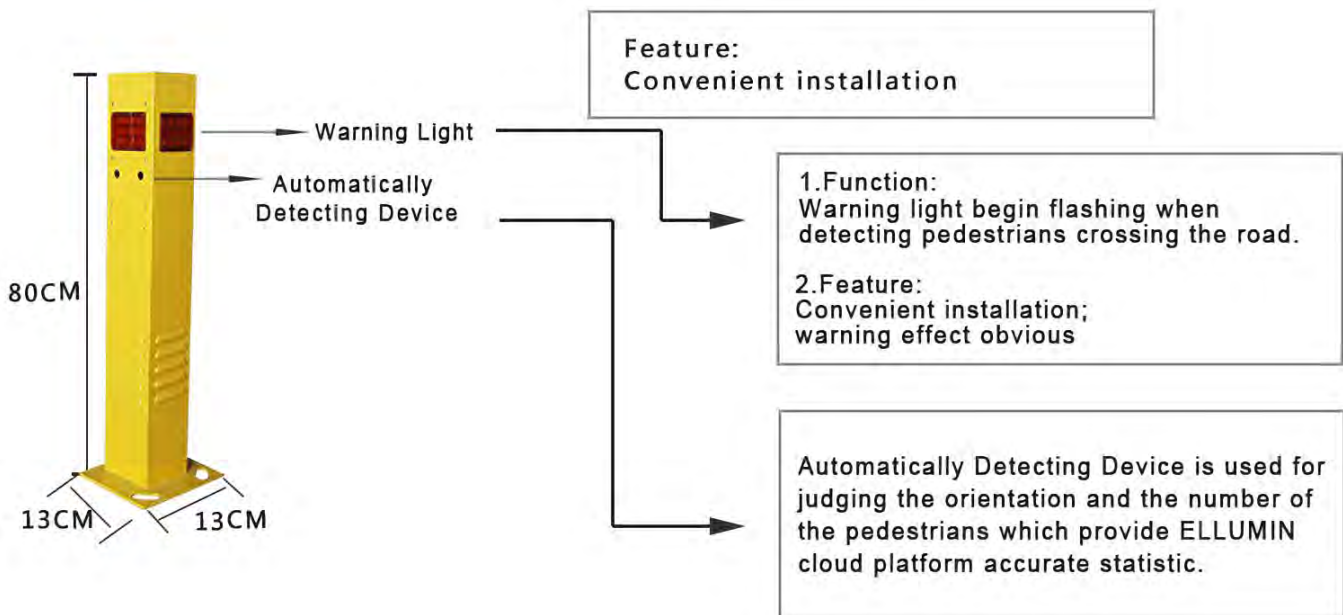
3.APPLICATION

SMART PEDESTRIAN SYSTEM
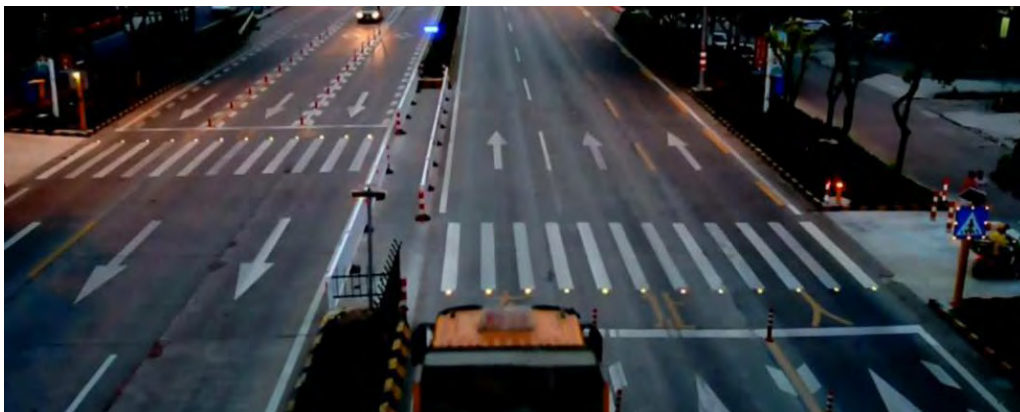
ACCESSORIES OF SUBURBAN TYPE VERSION

ACCESSORIES-INDUCTION PART

1.PEDESTRIAN INTELLIGENT INTEGRATED BOLLARD(Main Bollard)

Front Side

Back Side

1.Specification :
Power Supply : Solar Panel

2.Feature:
Convenient installation; Multiple activation options.

66CM

41.5CM

3.5CM

80CM

250CM

12CM

15CM

Solar Module

Pedestrian Detecting Fill Light

Voice Alarming

Touch Button

Automatically Detecting Device

1.Specification:
LED:8 pcs super bright LEDs
2.Feature:
Photocell function.

10W,decibel > 120dB
(Decibel can be adjusted.)

Touch button always flashes for warning pedestrians to manually activate the device.

Automatically Detecting Device is used for judging the orientation and the number of the pedestrians which provide ELLUMIN cloud platform accurate statistic.

2.PEDESTRIAN INTELLIGENT INTEGRATED BOLLARD(Sub-Bollard)

Feature:
Convenient installation

Warning Light

Automatically Detecting Device

80CM

13CM   13CM

1.Function:
Warning light begin flashing when detecting pedestrians crossing the road.

2.Feature:
Convenient installation;
warning effect obvious

Automatically Detecting Device is used for judging the orientation and the number of the pedestrians which provide ELLUMIN cloud platform accurate statistic.

SMART PEDESTRIAN SYSTEM

PRODUCT SPECIFICATION

INTELLIGENT PEDESTRIAN SYSTEM CONTROL MODULE

The control module is for ensuring the system effective operation and upgrading the system operation efficiency.It integrates two core functions in one that receive activation signals from activation equipment and send working instructions to the warning equipment. And it can also satisfies the need of customized functionalities of the system.

ACCESSORIES-WARNING PART
1.EDGE LIT TRAFFIC SIGN

Traditional traffic signs have short visibility distances, and the static warning effect is poor.
ELLUMIN company put the edge lit technology on traffic sign,it not only increases the visual distance, but also add flash function to warn drivers yield people who are crossing the crosswalk.

1.1 Specification

●Material：Double layer aluminium-plastic panel & 3M DG³ reflective sheeting & Stainless steel fasteners.

●8 PCS 1W high power LED lamp. ●With anti-graffiti overlay.

●Aluminium-plastic panel，durable which is hard to bend. ●Size and pattern can be customized.

1.2 Features

Simultaneous flash LEDs - Greater increases drivers awareness in high-risk,and high-accident intersections.

Slim design:The thickness has no difference with the normal aluminum sign;Convenient installation.

Aluminum wrapping edge - Pattern design : New advanced anti-oxidation Aluminum wrapping edge, 2-3 times durable than old silicon wrapping, effectively extend the life time.

### 2.EMBEDDED ROAD STUD

BL-004SU
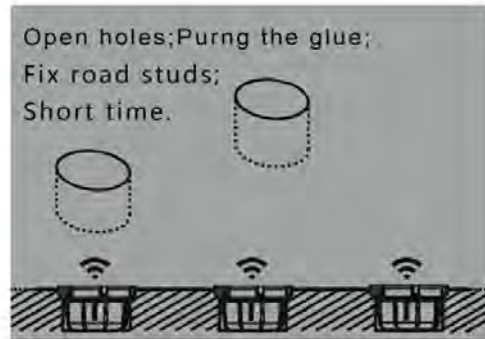
1.Specification
Size：φ170*98.2mm
LEDs:8 pcs super bright LEDs
Power supply:solar module
Lighting time:150H after fully charged in flashing mode.

2.Features
●Robust Construction,suitable for harsh conditions.
●Possibility of integration with enforcement systems.
●Low energy consumption.
●Convenient installation,not need to open the connections.
●Easy Replacement:base(fixed in the pavement),main body(removable).

ACCESSORIES-POWER SUPPLY PART
1.SOLAR MODULE
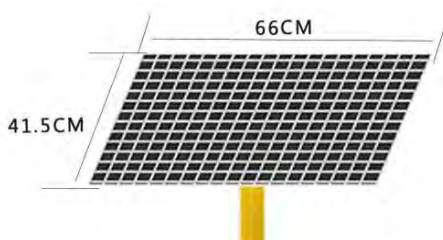
1.1 Specification
●Power supply:DC 12V40W solar module(80W optional)
●Size:66*41.5*3.5cm
●Protection Index:IP67
●Battery:DC12V36AH

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1.2 Features

● Convenient installation.

● Suitable for use in rich solar energy areas.

● Not affected by local grid power outages.

ELLUMIN CLOUD PLATFORM

DESCRIPTION

ELLUMIN cloud platform is an important part of the smart city which can monitor the operation of the devices, as well as collect and analyze the devices' statistic for you.

FUNCTION

1.MONITORING DEVICE

Monitoring device's operation and display in map pattern,and support to filter the dedicated device.

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2.ONLINE CONTROL DEVICE

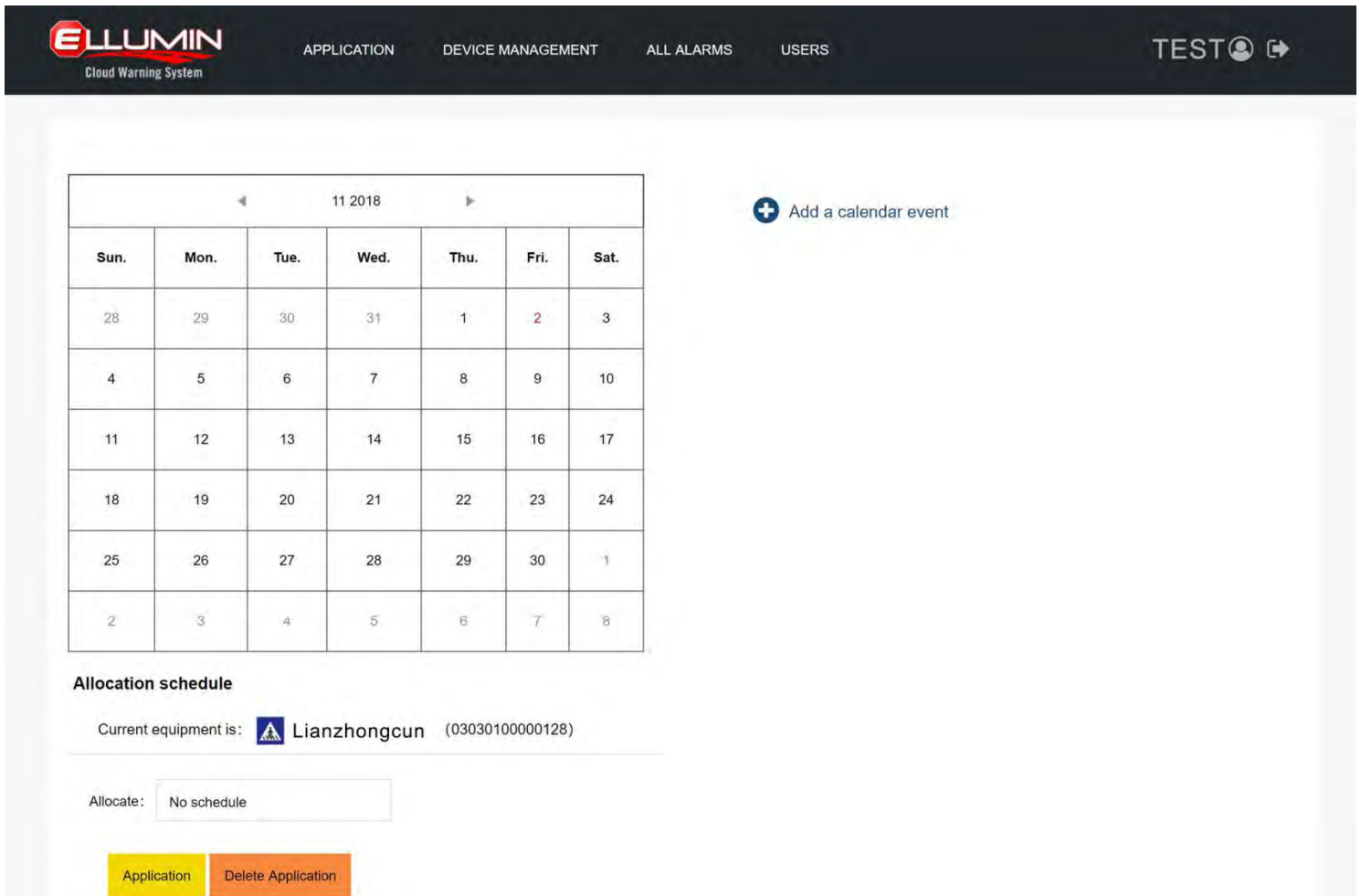Remotely change the operating status of the device online.
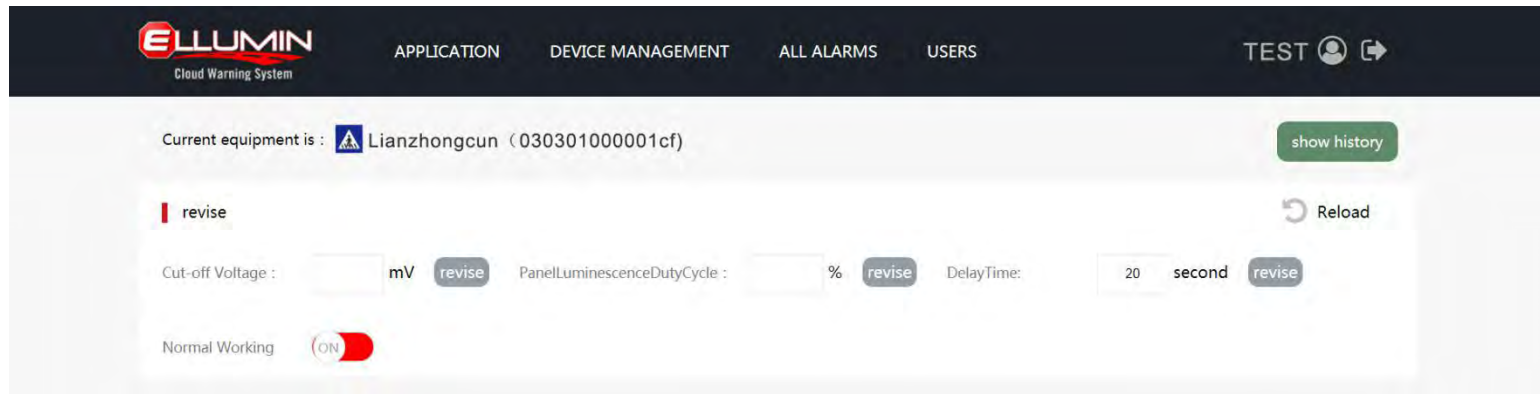
3.PROGRAMMABLE CONTROL

Customize Calendar Editor is easy to schedule Manage devices(Based on the Calendar Year with the Ability to Program in Holidays and Daylight Savings Time,Ideal for School, Business and Industrial Facility Work Schedules)

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4.EMERGENCY NOTIFICATION

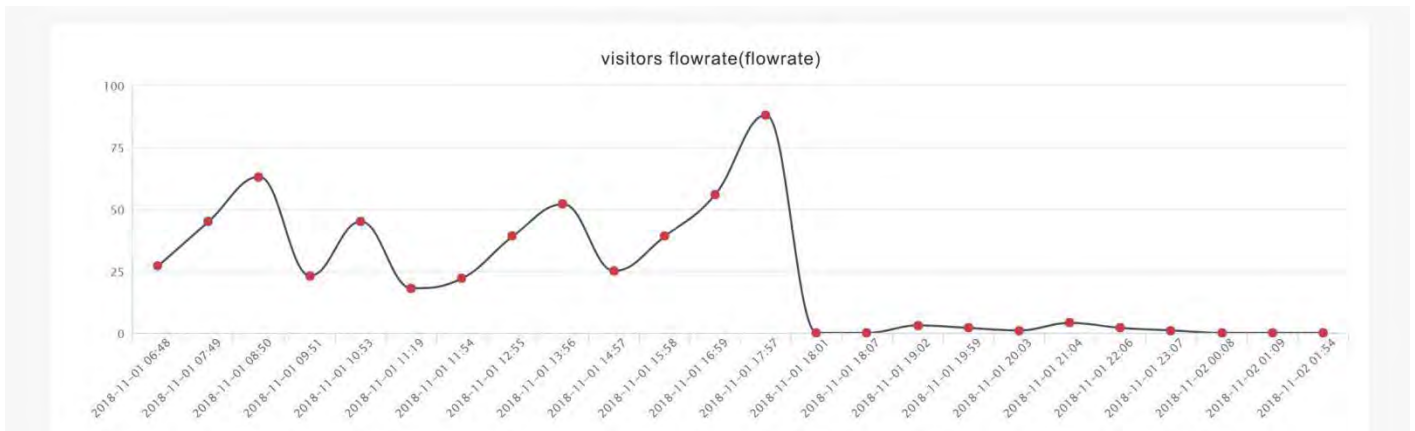When a traffic emergency occurs or there is something wrong with the device, workers will immediately receive the notifications through E-mail and web page.
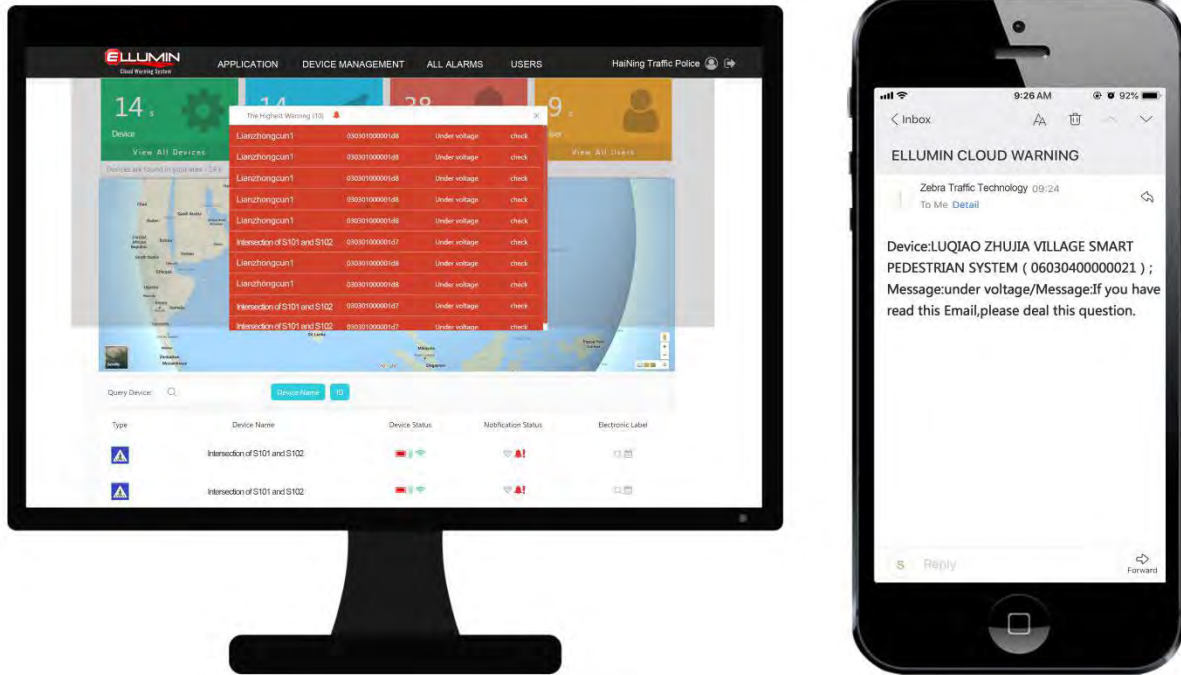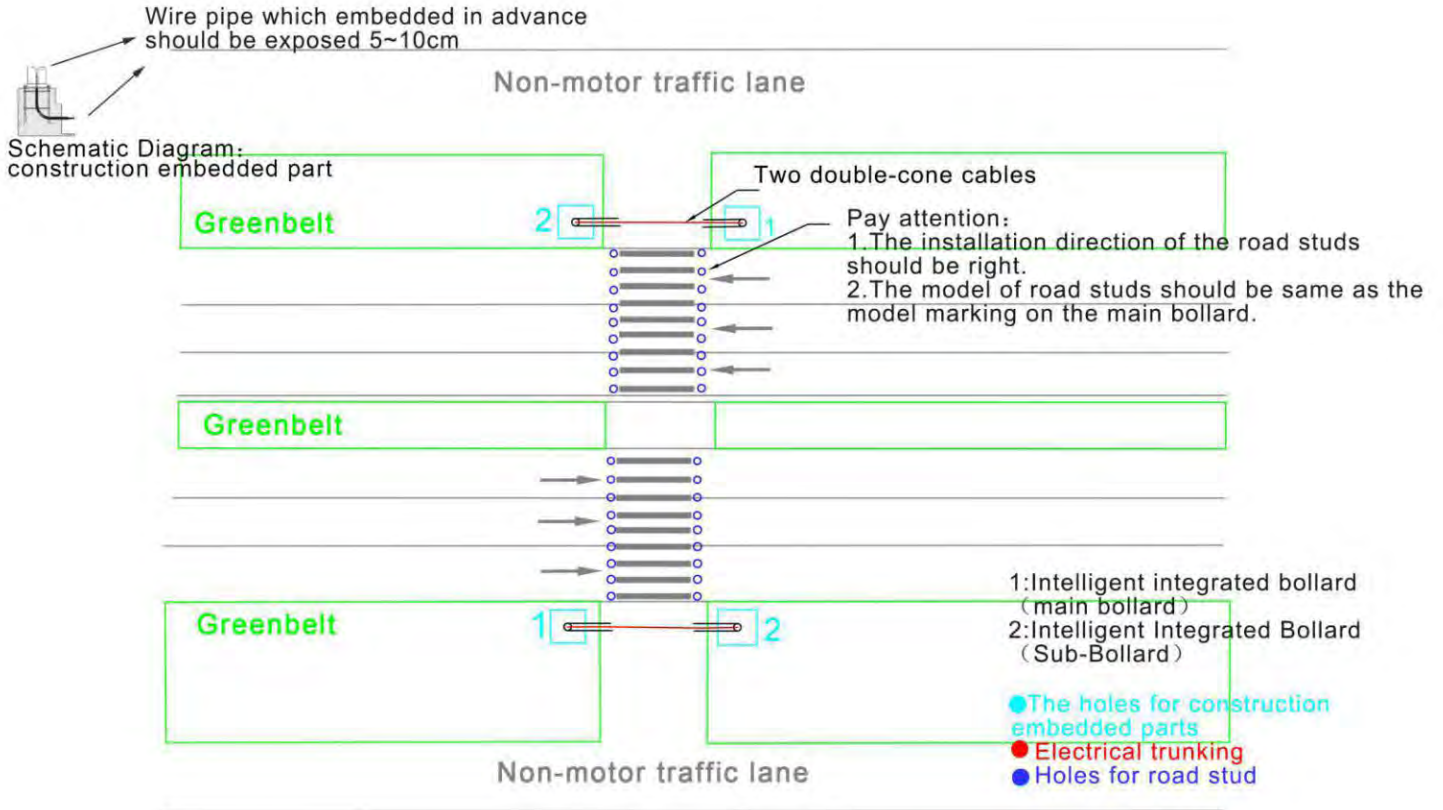

5.DATE REPORTING

5.1 It can generate professional data reports by capturing, filtering, summarizing, analyzing and summarizing the data of the day.

5.2 Provide strong data support by historical data exported to EXCEL in chronological order.

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Wire pipe which embedded in advance should be exposed 5~10cm

Schematic Diagram: construction embedded part

Non-motor traffic lane

Greenbelt

2 ☐ ────── ☐ 1

Two double-cone cables

Pay attention：
1.The installation direction of the road studs should be right.
2.The model of road studs should be same as the model marking on the main bollard.

Greenbelt

Greenbelt

1 ☐ ────── ☐ 2

1:Intelligent integrated bollard （main bollard）
2:Intelligent Integrated Bollard （Sub-Bollard）

● The holes for construction embedded parts
● Electrical trunking
● Holes for road stud

Non-motor traffic lane

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Q1.What is the intelligent pedestrian system?

The intelligent pedestrian system can accurately detect the movement of pedestrian when they are crossing the crosswalk to actuate the voice alarm system and the illuminate system(The illuminate system is consist of two parts:Flash pedestrian sign and embedded road studs) .
These two useful system warn drivers to slow down for yielding pedestrians as well as pedestrian should be cautious when cross the zebra crossing.

Q2.Is the embedded road stud pressure resistant?

Our company specially develop the embedded road stud for the severe challenge that the road stud located in the central line of the road is easy to be rolled by cars.
The road stud is approximately flush with the road surface after finishing installation which the pressure resistant degree can be around 30T.

Q3.How the detection technology to work?

There are three patterns of detection systems.

3.1 Infrared radiation detection system:This system is like to install an infrared gate at the crosswalk:When the pedestrian cross the infrared the intelligent pedestrian system will be actuated.
3.2 Camera detection system:The camera can detect the pedestrian on the crosswalk:The intelligent will be actuated at once the pedestrian entered the detection area.
3.3 Infrared thermal imaging detection system:The infrared can induce the body temperature to actuate the intelligent pedestrian system.(The system will analyze the movement of the pedestrian to distinguish the pedestrian who cross the road with the other people in advance.)

Q4.How long is the construction period?

The construction period is around only 1 day for a two-way four-lane road.

Q5.How about the construction damage to the road surface?

We only drill the hole which diameter is 170MM,height is 90MM and then fill up the hole through the specialized glue for ensuring the road can be restored to their original.

Q6.How about the electrical safety?

We adopt 3M waterproof connector for the electrical safety.

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