



# Innovative Traffic Solutions



## STARS PLASTIC SAFETY DEVICE

National High-Tech Enterprise

Specialized And Special New Enterprise In Zhejiang Province

 0086-576-80230333

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## About Us

(SP) Zhejiang Stars Plastic Safety Device Co.,LTD is a professional manufacturer and supplier of traffic warning equipment products with 31 years of experience. With years of exploration and expertise in the professional field, we founded the ELLUMIN intelligent transportation brand in 2017. Ellumin focuses on the research and development, production, and sales of intelligent transportation products, providing a series of intelligent transportation warning systems, construction and operation & maintenance services. It is a high-tech enterprise with independent intellectual property rights.



## Professional team

Ellumin Traffic currently has more than a hundred employees, the factory covers an area of 15,000 square meters, with an independent professional R & D team and precision and efficient production equipment.



More than 30 years of industry experience



Covering an area of 15,000 square meters



Professional sales and R&D team



Various research and development equipment



Obtained multiple patent certificates

## Professional support

Our company has always been based on safety, intelligence, and innovation, takes "Early Warning" as the core and "making traffic hazards visible" as the guidance. We have in-depth research and development on a series of intelligent transportation products and Early warning systems,aiming to effectively transmit each early warning signal and solve traffic problems, protecting the safety of both drivers and pedestrians. With hard work comes great rewards,in just three years, Ellumin has developed 7 core technologies, obtained 29 related patents, and 8 software copyrights."



## Intelligent Long Battery Life Message Sign

Ellumin Intelligent Long Battery Life Variable Message Sign is specifically developed from the ground up for off-grid scenarios. This includes the display module, control module, mobile control app, and cloud-based control platform, all of which are self-developed to cater to environments without access to grid power. Additionally, Ellumin integrates various application functionalities such as radar speed warning, construction zone warning, rural road safety enhancement, urban advertising display, level crossing warning, curve meeting warning, and vehicle height warning into the control system.

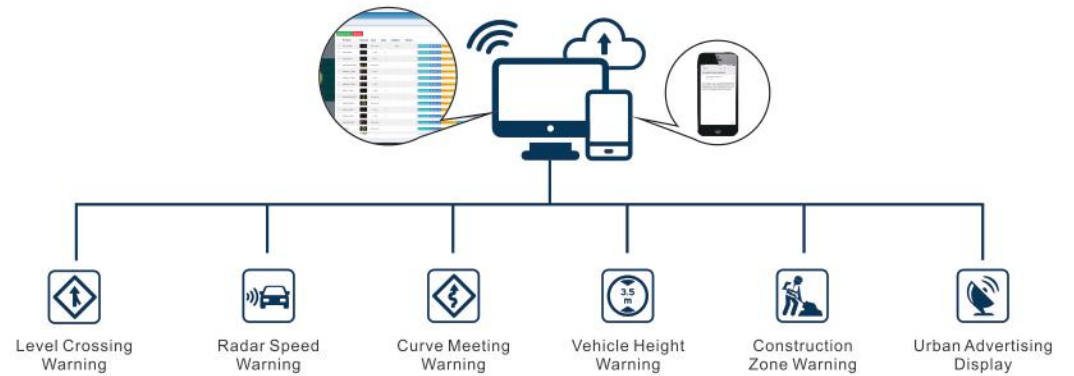


# Features

- Energy saving up to **30%-70%**.
- No city power needed, install any where.
- Build-in control system for other warning systems.
- Accurate detection and real-time activation.
- Real time modification of display content on the cloud, remote control of devices.
- Working more than 15days without Sunshine.
- Ellumin control system on app & web.
- Multiple warning, outstanding warning effect.
- Customization support and flexible application.
- Wireless networking can realize multi-directional collaborative early warning.

**Now, you can install the message sign any where!**

Pixel Pitch	Color	Each Led Panel Size	Each Panel Static Current	64*64cm Sign Static Current	64*64cm Sign Static Consumption /Day	Message Edit Ability	Control Method	Brightness
P20	RG	160mm 320mm	10mA	40mA	864mA / (24 hours)	Yes	Bluetooth App & Web	Auto /Manual (0-10 Level)



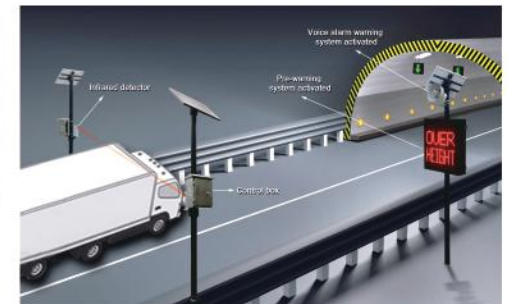
## Application with Ellumin Radar Sensor



Intersection Warning



Radar Speed Warning



Vehicle Height Warning

## Speed Radar Sign America MUTCD Type

Display real-time speeds, encourage safer driving habits, and ensure a safer road for all. Versatile and user-friendly, it suits schools, residential areas, and work zones. Built with durability and weather-resistance for reliable long-term performance. Low-power consumption means less maintenance.

Invest in this essential road safety partner now!

## American MUTCD Type

Product Display		 P20 screen with optical Lens			 P20 screen with optical Lens		 P20 screen with optical Lens
ItemNo	<b>SID-001-3C</b>	<b>SID-001-M</b>	<b>SID-001</b>	<b>SID-007</b>	<b>SID-007-VMS</b>	<b>SID-009</b>	<b>SID-009-M</b>
Frame Size	42.5" (H) 31" (W) 5.28" (D)	21.5" (H) 26" (W) 3.5" (D)	28" (H) 28" (W) 4.3" (D)	29" (H) 23" (W) 4.5" (D)	42.5" (H) 31" (W) 5" (D)	33.1" (H) 30" (W) 5" (D)	42.5" (H) 31" (W) 5" (D)
Material	Galvanized iron/aluminum (optional)	Galvanized iron/0.08"aluminum(optional)					
Weight	34lbs	28 lbs/41 lbs			26/39lbs		36/55lbs
Display Mode	3-digit LED display	2-digit(1-99mph)*Customized3 digits is available					
LED Size	Φ5mm	16*32cm P20	Φ5mm,252pcs	Φ5mm,208pcs	16*32cm P20	Φ5mm,548pcs	16*32cm P20
Speed Units	km/h / mph						
Visible Distance	Around 2624 feet						
Working Voltage	DC12V						
Standby Power Consumption	1.2W;Max Power Consumption:12W						
Waterproof Level	IP65						
Pickup Distance	Around 650 feet						
Radar Type	Doppler radar(24.150GHz±25MHz)						
Response Time	≤20ms						
Power Supply (Cable Type)	AC 110-240V/DC 12V						
Battery (Solar Type)	12V 36Ah Li battery		12V 24Ah			12V 48Ah	
Communications	GSM/GPRS(optional)						



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## Speed Radar Sign European Type

Display real-time speeds, encourage safer driving habits, and ensure a safer road for all. Versatile and user-friendly, it suits schools, residential areas, and work zones. Built with durability and weather-resistance for reliable long-term performance. Low-power consumption means less maintenance.

Invest in this essential road safety partner now!



European Type					
Product Display					
ItemNo	SID-002	SID-003	SID-005	SID-010	SID-020
Frame Size	(W)861mm (H)1310mm (T)108mm		(W)700mm (H)900mm (T)120mm	(W)509.2mm (H)612.2mm (T)160mm	(W)418mm (H)560mm (T)155mm
Material	Galvanized iron/aluminum(optional)		PC shell+ Galvanized iron/aluminum(optional)		
Weight	25kgs		23kgs	21kgs	
Display Mode	3-digit LED display		2-digit LED display		
LED Size	Φ5mm	Φ5mm,480pcs	Φ5mm		16x32cm P20
Speed Units	km/h / mph				
Visible Distance	Around 800 meters				
Working Voltage	DC12V				
Standby Power Consumption	1.2W;Max Power Consumption:11W				
Waterproof Level	IP65				
Pickup Distance	Around 150m				
Radar Type	Doppler radar(24.150GHz±25MHz)				
Response Time	≤20ms				
Power Supply (Cable Type)	AC 110-240V				
Battery (Solar Type)	12V 36Ah		12V 24Ah	12V 36Ah	
Communications	GSM/GPRS(optional)				

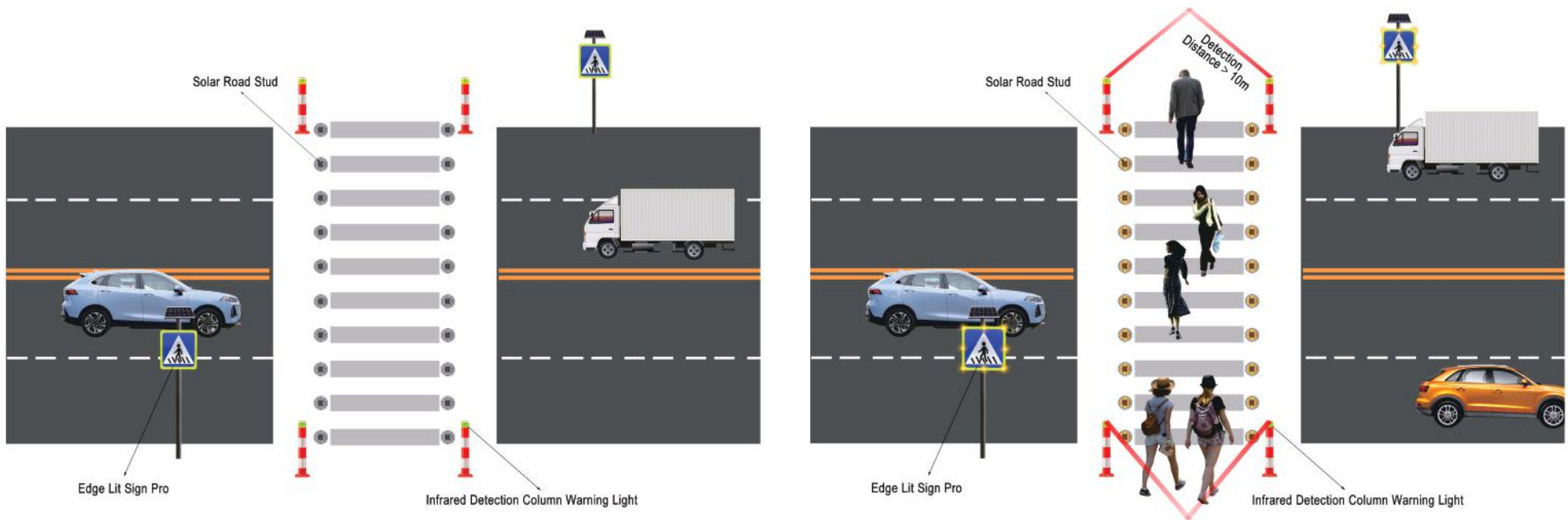




## Wireless Intelligent Pedestrian System

Article 47 of the Road Traffic Safety Law of the People's Republic of China stipulates that when motor vehicles pass through pedestrian crossings, they should slow down; when pedestrians are crossing the road, they should stop and give way. When motor vehicles pass through roads without traffic signals and encounter pedestrians crossing the road, they should give way. However, most drivers have not yet developed the habit of giving way to pedestrians, especially on Non-Traffic Light road sections. Pedestrian crossings have become a "battlefield" for motor vehicles and pedestrians to fight against each other. Collisions, scratches, and even accidents are common occurrences on pedestrian crossings.

Install infrared detection column warning lights, solar road studs, and active luminous signs in the zebra crossing area. When pedestrians pass through the detection area of the column warning lights, the warning lights, road studs, and luminous signs will flash to activate and warn drivers to slow down and give way to pedestrians.



# Features

- Accurate detection, real-time activation.
- Small detection angle, high accuracy.
- The system can be quickly installed even in areas where it is difficult to obtain power.
- Large detection distance, column cap light detection distance > 10m.
- Three-dimensional warning, strong warning effect.

Flexible Warning Post Material	Flexible Warning Post Size	Solar Road Stud Material	Solar Road Stud Size	Solar Road Stud Operating Mode	Control Box	Control Box Signal Input Method
New TPU High-performance Material + 3M HIP Film	200*100*800mm	PC+Aluminum	Ø130mm H48.39mm	Steady On, Flashing, Flowing Flash/Synchronous Flash (Customizable)	Dedicated Controller, including MW Power Module, Signal Receiving Control Module, Heat Dissipation Module	IO, Support PWM Control, Control Board, DTU, 4G Module Communication Module

## Infrared Detection Column Warning Light

Product Material	Product Size	Power Supply	Battery Parameters	Maximum Power Consumption	Standby Time When Fully Charged	Trigger Mode	Sensing Element	Detection Distance	Working Frequency
PC+Diamond-grade Reflective Film	Ø126mm H113mm	5V 150mA Solar Module	3.7V 2000mAh Lithium Battery	4W	20 hours	Wire-breaking Alarm	Infrared Thermal Sensor	Over 10m outdoors	135 times/minute

## Edge Lit Sign Pro

Product Material	LED Lamp Color	LED Lamp Life	Visual Recognition Distance	LED Brightness	Flashing Frequency	Power Supply Mode	Endurance Capacity
Aluminum Plate + HIP Film + Optical Lens	Yellow (Color Index meets GB/T 23828 requirements)	≥100000h	Static Visual Recognition Distance >250m; Dynamic Visual Recognition Distance >210m	80CD/Piece	30±5 times/minute (Customizable)	14VDC 6W Solar Module or 110-220V AC Power (Optional)	About 130 hours of continuous use on a single full charge (Endurance capacity varies depending on the number of led)



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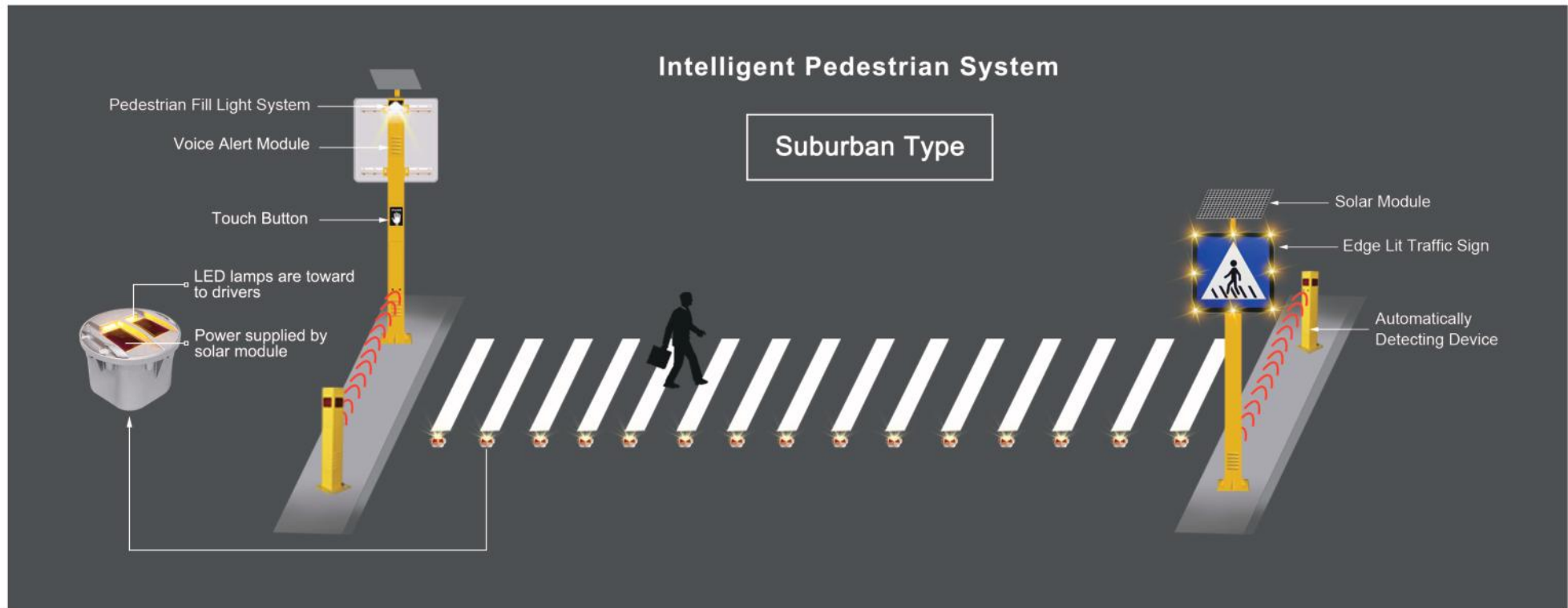
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## Solar - Intelligent Pedestrian Systems

Solar-intelligent pedestrian systems comprehensively monitor the pedestrians are crossing or will cross crosswalks for alerting drivers there ahead will be pedestrians, please slow down and give way; alerting pedestrians you will pass crosswalks, please be careful, ensuring the safety of both driver and pedestrian.

-Use solar module and solar road stud for installing without wiring.

-Use edge lit traffic sign, one-way warning road stud, and conditional pedestrian fill light system (The pedestrian fill light system only operates when the intelligent pedestrian system is activated) for ensuring effective warning and energy saving.



# Intelligent Pedestrian Crossing System(European Version)

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 fully lit sign + EN 12352 L8 Lamps + Street Light +variable message signs + back-lit push button. Pedestrian pressing the back-lit push button for actuating warning system & illuminated system.

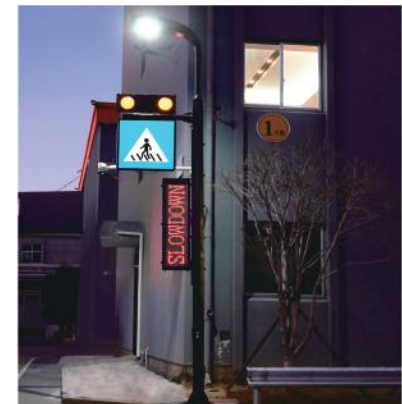
Through this set of equipment, users can build a centralized, networked, professional and intelligent information release platform, and at the same time, it can be linked with other intelligent transportation equipment of our company to provide powerful traffic hazard warning function, information transmission, release and management services.

At the same time, it can be applied to traffic safety education, information release, anti-fraud propaganda, etc. In combination with the characteristics of rural areas to realize automatic voice broadcasting.

At daytime: VMS in green words, other devices standby; when push the push button, L8 lamps flashing, VMS change to red words to warning the coming vehicles.



At night: Led street light and fully light sign steady lighting, VMS in green words; when push the push button, L8 lamps flashing, VMS change to red words to warning the coming vehicles.



# Ellumin Cloud Platform

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.

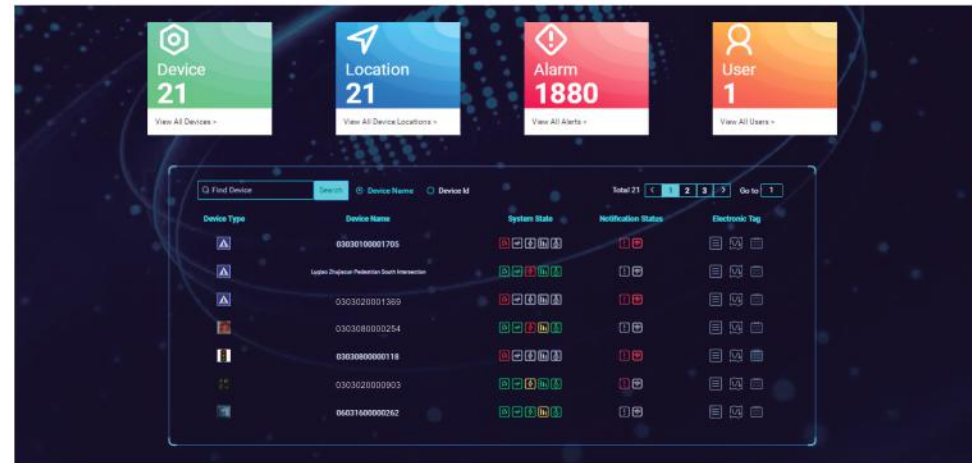
## Date Reporting

- ① It can generate professional data reports by capturing, filtering, summarizing, analyzing and summarizing the data of the day.
- ② Provide strong data support by historical data exported to EXCEL in chronological order.



## Monitoring Device

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



## Online Control Device

Remotely change the operating status of the device online.



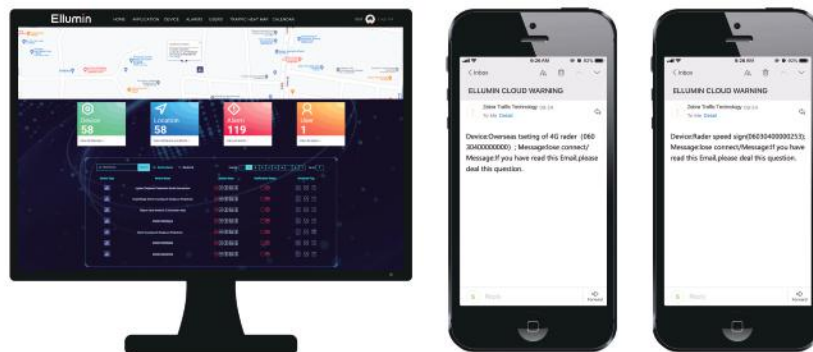
## Programmable Control

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).



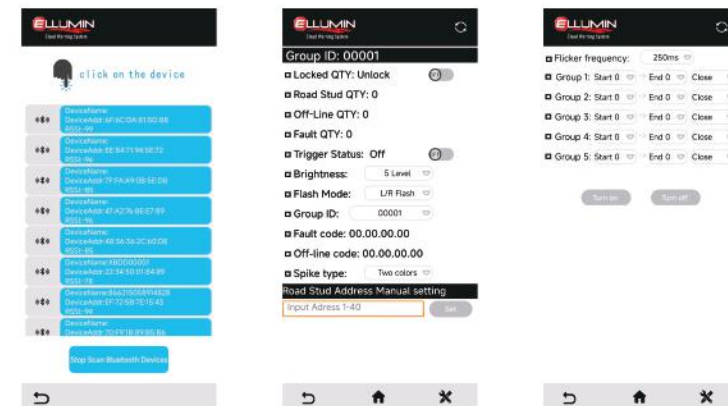
## Emergency Notification

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.



## Bluetooth APP

ELLUMIN products can be connected with the Bluetooth APP independently developed by our company. By enabling the Bluetooth connection of the mobile phone to connect the device, the mobile APP can monitor and control the running status of the device online; the device can be controlled through the mobile APP; at the same time, the APP supports auxiliary installation of equipment, statistics and feedback data, in order to better solve traffic problems and manage traffic order.



## Tunnel Collision Warning System

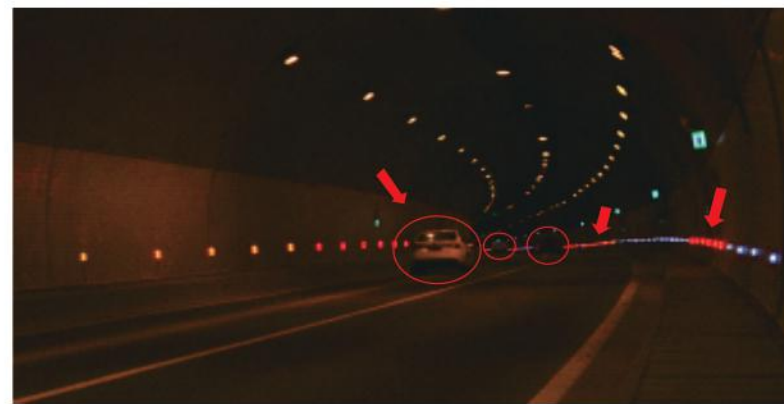
Tutoring vehicle lights: In the tunnel, when the front rear lights are faulty, dust is accumulated, and the brightness in the tunnel is low, the left and right sides of the guiding signs installed in the tunnel are in a white and white light state, which can assist the driver to turn on the lights and improve the brightness in the tunnel.



Vehicle visual positioning: When a vehicle is about to enter the tunnel or drive in the tunnel, it is very likely to cause rear-end collisions due to temporary blindness and blocked vision. At this time, the red wake generated after the sign turns into a red light can assist the driver to locate the vehicle, maintain a safe distance, improve driving safety, and avoid accidents.



Assist in locating tunnel entrance vehicles



Assist in locating vehicles in tunnels

## Track Guiding Version(Standard Type)

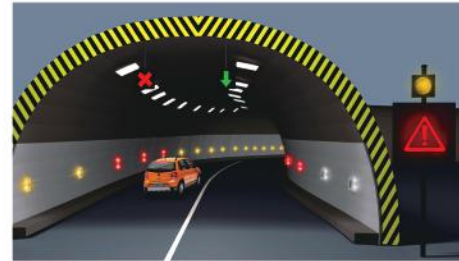
1. Yellow/White led constant lighting, improve the brightness inside the tunnel.

2. The lights turn into a red light in real time and produce a red trail, assisting the rear vehicle to determine the position of the preceding vehicle and maintaining a safe driving distance.



## Occupying the Road Alarm Version(Upgrade Type)

3. If a vehicle stays for more than a specified time (for example, 15s), the first-level alarm will be activated in real time, the lights will turn to a red light, and the Led Display Board outside the tunnel will display Warning Triangle to warn the car coming from behind. The road ahead is abnormal, please drive carefully.



4. If a vehicle stays for more than a specified period of time (for example, 30s), the secondary alarm will be activated in real time, the lights in the tunnel area will turn to a steady red light to warn the vehicles behind, the Led Display Board outside the tunnel will display Warning Triangle to warn the car coming from behind, and the voice alarm will prompt "Vehicles in the tunnel occupy the road, please pass slowly". Early warning vehicles are about to enter the tunnel, there are abnormal conditions in the tunnel.



## Other Working Mode

Application: Road marker, Guarding light, Gateway, Foggy area, etc.



Foggy Area Flash Mode



Gateway Area Constant Lighting Mode



Anti-collision Warning Mode



Tunnel Outline Enhancement Constant Lighting Mode



Tunnel Active Induction Flashing Mode



Accident/Construction Flash Mode



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## Anti-Intrusion Warning System- For Construction

This system is a warning product set specially designed by our company for road construction personnel, which can effectively protect the personal safety of construction personnel on site.

When a vehicle breaks into the work area and knocks down the Traffic Cone Light, the system be activated, the hazard signal is synchronized to Traffic Baton & Police Shoulder Light, and the buzzer alarm quickly reminds the construction workers: Dangerous intrusion, pay attention to avoid.

# Features

- The wireless synchronous Traffic Cone Light flashes once put on the PVC cone.
- It is to warn the drivers that "construction ahead, please slow down and detour".

## 1. Barricade Light (SWL-D006-IR)

Mount in the front of the construction, AMBER synchronized flash as standby.  
If vehicles enter in the construction area, change to RED constant lighting and send signal to warning device.



## 2. Barricade Light (SWL-D006-WIFI-2)

Mount in the front of the construction, AMBER synchronized flash as standby.  
If vehicles crash down the light, send signal to warning device.



## 3. PVC Special Flexible Traffic Cone

PVC special flexible traffic cone is set around the construction area to form a road block, reminding the driver to construct ahead, slow down and detour.



\*Note:  This Symbol Represents the Signal Sender,  This Symbol Represents the Signal Receiver.

## ALARM ACCESSORIES:

### 1. Traffic Baton (ST-395RB-2)



### 2. Shoulder Light (PSL-003-2)



## Accessories Lists

Barricade Light  
SWL-D006-IR  
SWL-D006-WIFI-2

Traffic Baton  
(ST-395RB-2)

Shoulder Light  
PSL-003-2



## Anti-Intrusion Warning System- For Construction

This system is a warning product set specially designed by our company for road construction personnel, which can effectively protect the personal safety of construction personnel on site.

When a vehicle breaks into the work area and knocks down the Traffic Cone Light, the system be activated, the hazard signal is synchronized to Traffic Baton & Police Shoulder Light, and the buzzer alarm quickly reminds the construction workers: Dangerous intrusion, pay attention to avoid.

# Features

- The wireless synchronous Traffic Cone Light flashes once put on the PVC cone.
- It is to warn the drivers that "construction ahead, please slow down and detour".

## 1. Traffic Cone Light (AB-185-2)



## 2. PE Special Flexible Traffic Cone

PE special flexible traffic cone is set around the construction area to form a road block, reminding the driver to construct ahead, slow down and detour.



\*Note:  This Symbol Represents the Signal Sender,  This Symbol Represents the Signal Receiver.

### Accessories Lists

Traffic Cone Light  
AB-185-2

Traffic Baton  
(ST-397-2)

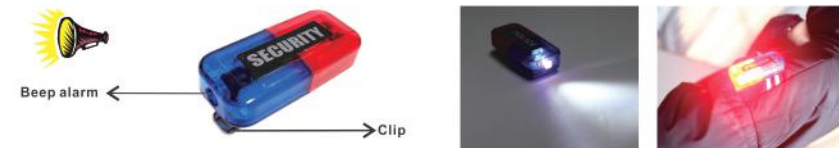
Shoulder Light  
PSL-003-2

## ALARM ACCESSORIES:

### 1. Traffic Baton (ST-397-2)



### 2. Shoulder Light (PSL-003-2)





## Led Stop Paddle

ELLUMIN handheld led stop paddle, different words optional, and customized available.

# Features

- Charging indicator LED included.
- Reflective film: 3M EDP Level(3M HIP/DG optional).

- Micro terminal for Li-battery recharge; USB terminal for other equipment emergency recharge.
- Tilted sensor built in, when power on, raise light up, tilt off. 2.2.4 Easy replaceable battery case design.



LPS-SL18



LPS-PA18



LPS-SA18



Extension pole optional

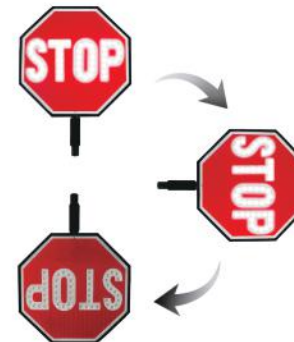
Item No.	Size	Text Letter Height	Led Qty of Stop/Slow Paddle	Overall Paddle Size	LED Color	Function	Battery
LPS-SL12	12" *12"	4.4"	52 SMD/ 59 SMD	12"W * 18"H	White	Blink - Constant On - Close	1pc 3.7v 2000mAh Li-battery
LPS-SL18	18" *18"	6.6"	52 SMD/ 59 SMD	18"W * 24"H			
LPS-SL24	24" *24"	8.7"	52 SMD/ 59 SMD	24"W * 30"H			



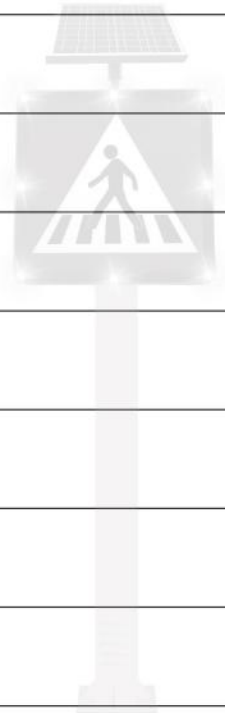
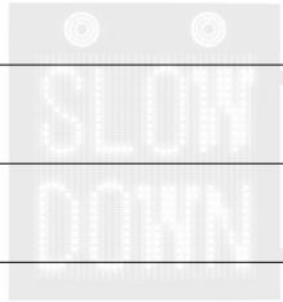
USB terminal for emergency power bank



Plug in design battery case



# NOTE



**Make Every Warning Signal Valuable**



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