Ellumin

INNOVATIONS FOR TRAFFIC SAFETY



Https://www.ellumin.com

STARS PLASTIC SAFETY DEVICE

National High-Tech Enterprise

VERSION 2026

Company Profile

About ELLUMIN

A Brand of Zhejiang Stars Plastic Safety Device Co., Ltd.

With 31 years in traffic safety, we launched **ELLUMIN** in 2017 to advance intelligent road warning solutions.

ELLUMIN designs and manufactures **smart, lightweight, and highly visible traffic safety products**—from solar-powered message signs to real-time hazard alert systems—making hidden risks clearly seen and effectively mitigated.

Ellumin traffic currently has 150 employees, our 15,000 m² facility in Hangzhou houses a dedicated R&D team and precision production lines. As a high-tech enterprise with full independent IP, we've developed **7 core technologies**, secured **29 patents**, and registered **8 software copyrights**.

Guided by **"Early Warning = Accident Prevention,"** we empower safer roads for drivers, workers, and pedestrians worldwide.

31 YEARS
INDUSTRY EXPERIENCE

15000m²
COMPANY'S LAND AREA

150+
Company Employees

07
CORE TECHNOLOGIES

29
DESIGN PATENT

08
SOFTWARE COPYRIGHTS





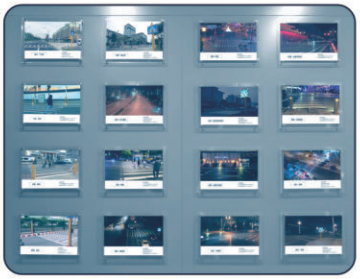
Factory Overview



Office Building



History of Stars Plastic



ELLUMIN Projects



ELLUMIN Public Benefit Activities

Ellumin
STARS PLASTIC SAFETY DEVICE

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Global Impact & Vision

ELLUMIN's Early Warning Systems are now deployed in **42 cities across China**, with **over 800 projects implemented**. Our intelligent transportation solutions are widely used nationwide and exported to **more than 50 countries**, including **the United States, United Kingdom, Japan, Russia, and the United Arab Emirates.**

To promote public understanding of smart traffic safety, ELLUMIN has established **exclusive Traffic Warning Experience Showrooms** in **Hangzhoui, Hefei, and Taizhou,** offering immersive insights into the future of smart cities.

Guided by our core values—**Innovation, Quality, and Service**—we earn market trust through advanced technology, reliable performance, and professional support.

As a key enabler of intelligent transportation, ELLUMIN remains committed to **strengthening our foundation, advancing technology, and driving innovation**—to build safer, smarter roads for the world.



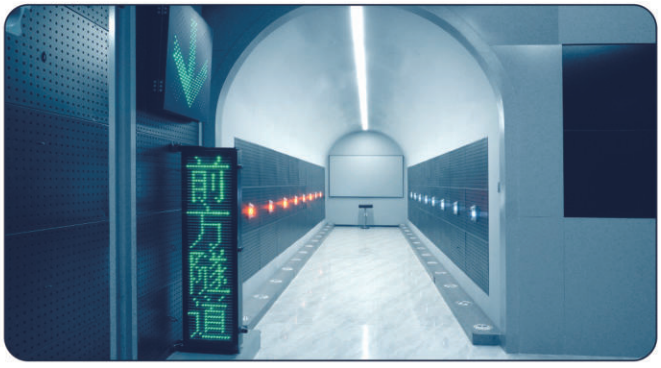
Taizhou - Ellumin light control & non-light control area safety improvement solutions



Taizhou - Ellumin cloud warning system



Taizhou - ELLUMIN innovative traffic safety solutions



Taizhou - Ellumin intelligent tunnel safety enhancement solution



Taizhou - Ellumin early warning systems experience showroom



Hangzhou - Ellumin early warning systems experience showroom



Hefei - Ellumin early warning systems experience showroom

Ellumin

STARS PLASTIC SAFETY DEVICE

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Contents

Ellumin Work Zone Innovations	**4**
E-LITE Portable Message Signs	5-6
Portable Traffic Trolley / Foldable Tripod	7
LED Modules	8
Variable Message Signs	9
LED Reflective Roll-up Traffic Sign	10
Mobile Traffic Light	11
Ellumin Stop Go	12
EN 12352 Cone Light	13
Anti-Intrusion Warning System-For Construction	14
Ellumin EN 12352 Warning Lights	15-16
Ecocell 6V Rechargeable Lantern Battery / Portable 8 In 1 Charging Station	17
Vehicle Mounted Arrow Board With EN 12352 Lamps	18
Truck Mounted Arrow Board With EN 12352 Lamps	19
Ellumin Warning Systems	**20**
Ellumin Cloud Warning System	21
Ellumin Multi Functional Control Module	22-23
Intelligent Pedestrian System	**24-27**
Ellumin LED Signs Collection	28-32
Embedded LED Road Studs	33
Intelligent Pedestrian Crossing LED Bricks	34
Solar Temporary Pedestrian Crossing Signal System	35
Illuminated Traffic Bollards	36
Post Beacons	37
Ellumin Your Speed Sign	**38-45**
Guardrail Anti-collision Warning System	46
Intelligent Guardrail Light	47
Accessories	**48-50**
Ellumin Wireless Update & Maintenance Box	51
Warning Light - EN12352 Certificated Series	52
Radar Detector / Wind Speed Sensor	53
Laser Ultra-high Detector / Ultrasonic Level Meter	54
Ellumin Smart Solar Power Station & Control Box	55
Ellumin Solar Power Battery-Solar Panel+Bracket / Ellumin Solar Power Battery-Electrical box+Independent battery	56
Pedestrian Sensor / Push Button	57
RRFB(Rectangular Rapid Flashing Beacon) / Stop Bar Light	58
Power Line Communication Control Module / 433MHz Road Stud Controlled Wireless Module	59

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Work Zone Innovations

Intelligent work zones enhance traffic safety efficiency.



·**ELLUMIN WORK ZONE INNOVATIONS** include warning devices for workmen and drivers.

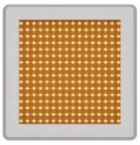
·Monitors real-time conditions (e.g., queues, speed) and communicates directly with drivers via dynamic signs.

Area	No.	Picture	Item Name	Item Code	Specification
Pre-Warning Area	①		Mobile VMS	E-LITE PMS-64*64	Mobile variable message sign
Monitor Area	②		Mobile Intelligent Camera	SG-JKXT-1	Solar powered and mobility, Ellumin Cloud System available to monitor online
Control Area	④		Mobile Traffic Light	MTL-001	2 sets each pair, 1 remote controller for shuttle mode
Construction Area	③		Solar Cone Lamp	AB-SU185F-PRO-IR-2	Sequential flash standby, if been crashed down,send signal to shoulder light & traffic baton to warning workmen
	⑤		Shoulder Light	PSL-003-2	Alarming once receive signal from solar cone lamp
	⑥		Traffic Baton	ST-397-2	

+86-576-80230333
sales@ellumin.com
www.ellumin.com

E-LITE Portable Message Signs

• Super light weight message signs made by high-strength & anti-uv plastic.



32*32cm





32*64cm

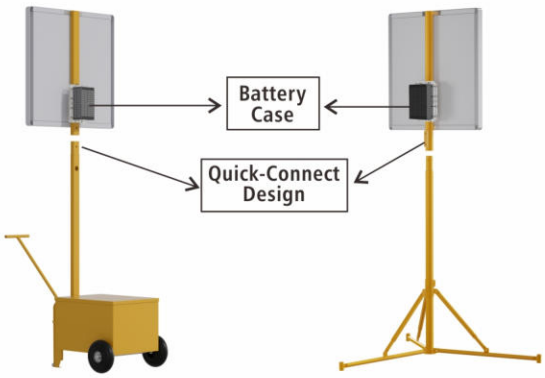




64*64cm

- ·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 ofdisplay content on the cloud, remote control of devices
- ·Wireless networking can realize multi-directional collaborative early warning
- ·Working more than 15days without Sunshine
- ·Ellumin control system on app & web
- ·Multiple warning,outstanding warning effect
- ·Customization support and flexible applicatior

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



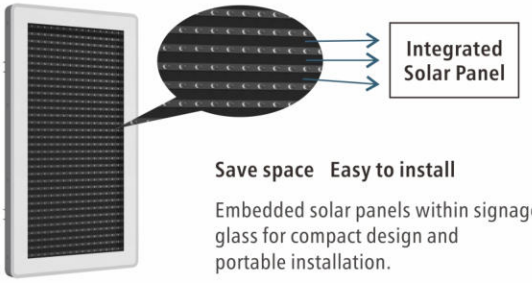
Tool-free installation — just plug in.
Effortless to set up and remove in seconds



With Portable Traffic Trolley



With Foldable Tripod



Save space Easy to install

Embedded solar panels within signage glass for compact design and portable installation.

ACCESSORIES LIST		ITEM CODE
	E-LITE PMS 32*32cm	E-LITE PMS-32*32
	E-LITE PMS 32*64cm	E-LITE PMS-32*64
	E-LITE PMS 64*64cm	E-LITE PMS-64*64
	Integrated Solar Panel (40W)	ISP-64*64
	Portable Traffic Trolley	PTT-S/M
	Trolley Solar Panel 40W	PTT-SP40
	12V40Ah Lead-Acid Battery	LA-3
	Foldable Tripod	TP-02
	12V 23Ah LiFePO4 battery	BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

SENSOR LIST	ITEM CODE
Radar Detector	ERD-01L
Laser Sensor	EID-001
Water Level Sensor	WLS-001
Three-cup Anemometer Sensor	CA-100

+86-576-80230333
sales@ellumin.com
www.ellumin.com

E-LITE Portable Message Signs

As Image Sign



·High-Capacity Storage
Locally store up to 100 images and create 20 independent playlists for complex looping needs.

·Bluetooth Wireless Control
Wireless Bluetooth connection and control via Android phone for operation.

·On-the-Fly Flexibility
Instantly switch displayed images or playlists by leveraging stored content and wireless control to handle unexpected changes.



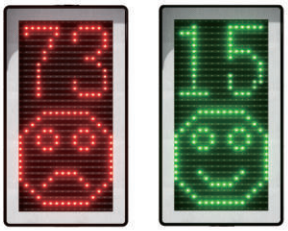
Bluetooth Operation Interface

As Speed Radar Sign

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.



E-LITE Radar SID-020 32*32



E-LITE Radar SID-020 32*64



E-LITE Radar SID-020 64*64

Item Code	Material	Display Mode	Intensity	Frame Size	Display Size	Power Supply	Pixel Pinth	Working Voltage	Working Current	Neasurement Range From	Led Color	Led Quantity
E-LITE Radar SID-020 32*32	ASA (Plastic)	2-digit LED display (1-99km/h)	16*16	(W)400mm (H)400mm	(W)310mm (H)310mm	Solar Power	P20 (E-LITE style)	DC12V	<0.5A	1-99kph/mph	Red,Green Red,White (Bi-color) or Others	256 pcs
E-LITE Radar SID-020 32*64			16*32	(W)400mm (H)730mm	(W)310mm (H)630mm							512 pcs
E-LITE Radar SID-020 64*64			32*32	(W)730mm (H)730mm	(W)640mm (H)640mm							1024 pcs

As Editable Message Sign

Type text directly into the Android phone app and send it to the screen instantly.

·Edit and update freely **·Wireless control, real-time updates** **·React immediately, update in seconds**





Bluetooth Operation Interface

***Integrate any detector for flexible warning solutions.**



ERD-01L

Radar Detector
*Wrong way warning system
*Curve Warning System
*Work Zone Innovations



WLS-001

Water Level Sensor
*Flood alert system features



EID-001

Laser Sensor
*over height warning system



CA-100

Three-cup anemometer Sensor
*crosswinds warning system

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Portable Traffic Trolley

Portable & Effortless.

A portable trolley designed for traffic control, construction warnings, or event guidance, featuring a foldable screen and mobile base for rapid deployment and flexible adjustment.

Features

·Integrated portable message sign design
·Lightweight & Mobile
·Quick-folding design (for traffic light)
·Instant set-up design (for VMS and speed radar sign)









PTT-S



PTT-M

Item Code	Material	Base Overall Size	Pole Size	Total Height	Wheel	Push Stick Size	Solar Panel
PTT-S	Thickness 1.2mm durable iron sheet	500(L)*390(W)*300(H)mm	Rectangle pole 30*50mm* (H)1200mm(Base) +(H)850mm(Top)	2100mm	Swivel wheel 2pcs	(ϕ)20mm* 810mm(L)	40W
PTT-M		600(L)*500(W)*300(H)mm					

Foldable Tripod

Folds small, carries all.



TP-02



Foldable Design

Setup in seconds, stability on the go.

Features

·Rapid setup,instant readiness
·Compact & Highly portable
·Stable triangular support
·Broad compatibility



Item Code	Material	Weight	Folded Size	Expanded Size	Coating
TP-02	Thickness 2mm durable aluminum sheet	3.7kgs	14(H)*125(L)cm	142(ϕ)*125(H)cm	Yellow/ Others



Carriable bag with wheels and telescoping handle

ACCESSORIES LIST		ITEM CODE
	Trolley Size S	PTT-S
	Trolley Size M	PTT-M
	Trolley Solar Panel 40W	PTT-SP40
	12V40Ah Lead-Acid Battery	LA-3
	Foldable Tripod	TP-02
	12V 23Ah LiFePO4 battery	BX-3
	Carry Bag	MTL-CB01

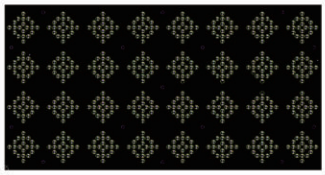
+86-576-80230333
sales@ellumin.com
www.ellumin.com

LED Modules

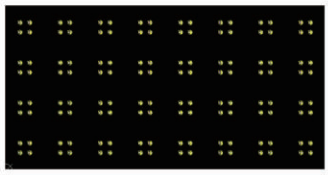
Ellumin LED modules offer unparalleled energy efficiency, exceptional longevity, and versatile design possibilities in a compact and durable lighting solution.

Features

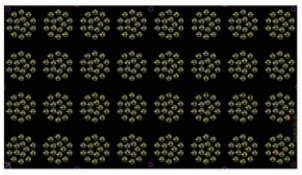
- ·Energy efficiency
- ·Durability
- ·Long lifespan
- ·Color-changing capability
- ·Design flexibility
- ·Wide availability



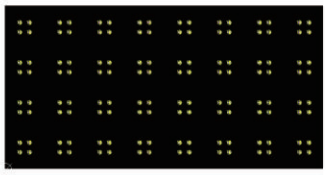
P50-4RGABW



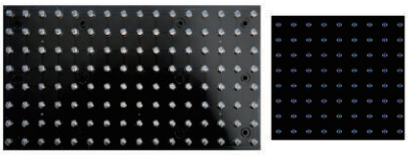
P50-4A



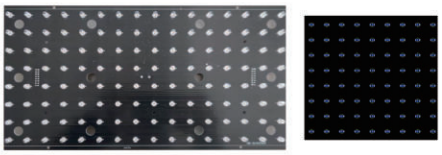
P42-3RGABW



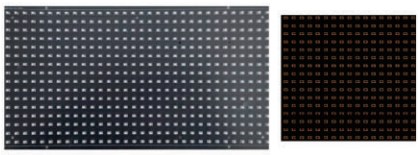
P42-4A



P20RG/P20A



E-LITE P20RG/P20A



P10RG-SMD

Item Code	Color	LED Quantity	LED Module Size	Pixel Pitch	Viewing Angel	Brightness (Maximum cd/m²)
P50-4RGABW	RGABW	128pcs/Color	400mm*200mm	P50	±15°	≈5700
						≈6400
						≈3900
P50-4A	Amber	128pcs				≈3800
						≈4500
P42-3RGABW	RGABW	96pcs/Color	336mm*168mm	P42	±15°	≈8100
						≈9000
						≈5600
P42-4A	Amber	128pcs				≈5400
						≈6500
P20RG	RG/RW/RA	128pcs/Bi-color LED	320mm*160mm	P20	±15°	≈4400
						≈1800
P20A	Amber	128pcs				≈2100
E-LITE P20RG	RG/RW/RA	128pcs/Bi-color LED	320mm*160mm	P20	±15°	≈4400
						≈1800
E-LITE P20A	Amber	128pcs				≈2100
P10RG-SMD	RG/RA	512pcs/Bi-color LED	320mm*160mm	P10	±60°	≈3500
						≈2500

Applications:

Variable Message Signs;Speed Radar Signs;Information Sign;Advertising Sign



VMS-P50-4RGABW



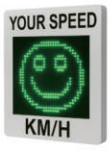
VMS-P50-4A



P20RG
Radar Series



E-LITE
Radar Series



P10RG-SMD
Radar Series

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Variable Message Signs

A rapidly deployable mobile VMS unit for dynamic, on-site traffic information and safety messaging.

Features



·Captivating Messaging
Vibrant 5-color display.impress with our solar-powered variable message signs.Vibrant 5-color display ensures attention-grabbing messages that leave an impact.

·Dynamic Messaging Capabilities
Stay flexible and engaging. Easily update messages on the go for fresh and relevant communication that captivates your audience.

·Sustainable and Efficient
Solar-powered operation.
Embrace sustainability. Our signs operate using clean and renewable solar power,reducing your carbon footprint while maintaining reliability.

·Energy-Efficient Design
Effciencyis key. Our signs maximize solar energy usage and consume power efficiently for cost-effective and eco-friendly messaging.

·User-Friendly and Versatile
Intuitive Control and Programming.
Ease ofuse is paramount. User-fiendlyinterface allows easy programming and upcates,Select colors,fonts, and animations effortlessly.



·Versatile Applications
Adaptabilty matters, from road construction to events, our slgns ensure clear messages with maximum visibiltyin various scenarios.

Full Matrix VMS

Item Code	Color	LED Module	Full Matrix	Display Size	Overall Size
VMS-P5O-4RGABW	RGABW	P50-4RGABW	48*28	2400mm*1400mm=3.36m^2	2600*1600mm=4.5m^2
VMS-P5O-4A	Amber	P50-4A			
VMS-P42-3RGABW	RGABW	P42-3RGABW	48*28	2016x1176mm=2.37m^2	2216x1376mm=3.05m^2
VMS-P42-4A	Amber	P42-4A			

Trailer

Item Code	Size	Weight (With VMS)	Tyre	Lifting	Voltage	Solar Panel	Battery	Solar Charge Controller
HL-TR-S-Trailer	3000(L)*1760(W)*2500-3600(H)mm	850KGS	165/70R13	Hydraulic	DC12V	3*180W Mono crystal	2x250Ah Lead-acid	40Ampere
HL-TR-L-Trailer	3600(L)*1640(W)*2700-4000(H)mm	1000KGS	185R14C					

Ellumin Cloud Platfrom

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.

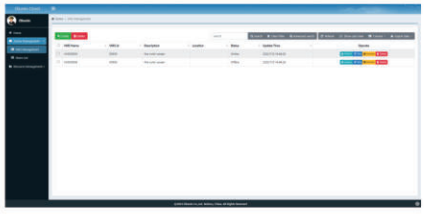
Account Management System



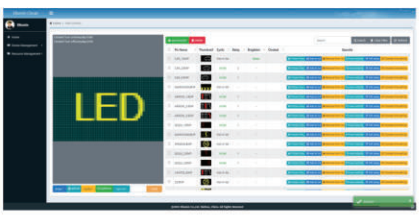
Monitoring Device



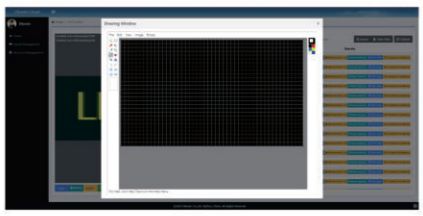
Online Control Device



Programmable Control



Programmable Control



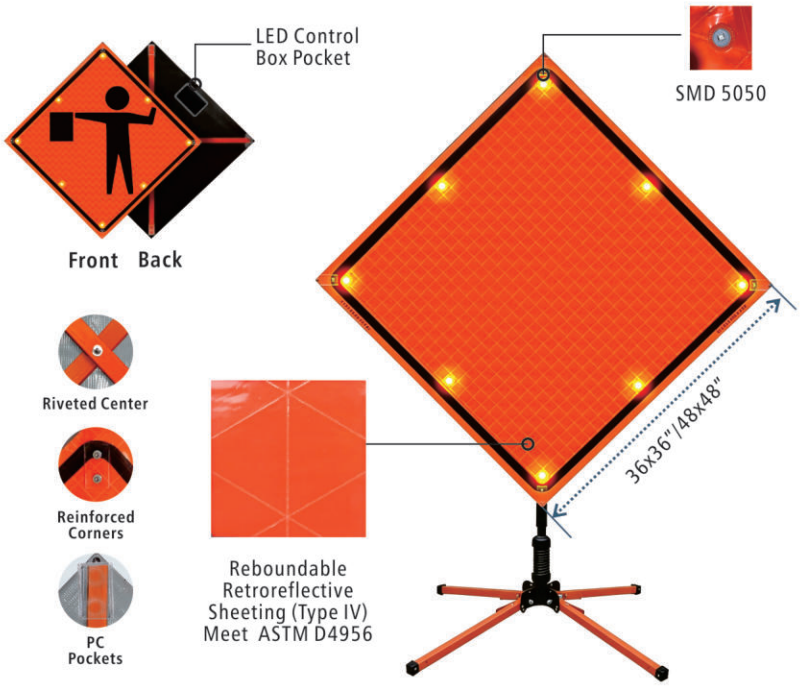
Ellumin Control System on App & Web



+86-576-80230333
sales@ellumin.com
www.ellumin.com

LED Reflective Roll-up Traffic Sign

Light up your roll-up signs.



LED Reflective Roll-up Traffic Sign With Heavy-duty Stand



Roll Up

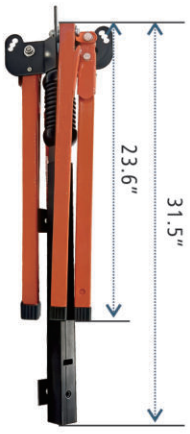
Standard Roll Up Sign and Overlay Legends



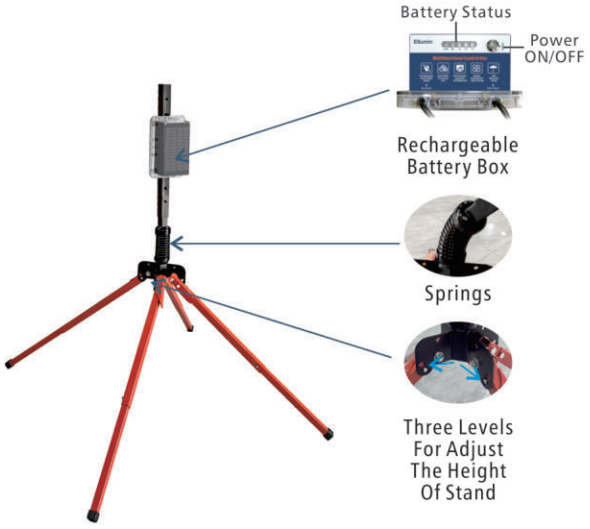
*Send us dawning for OEM design.

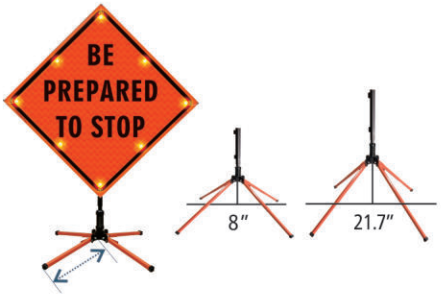
Heavy-duty Stand For LED Reflective Roll-up Traffic Sign

Foldable and extendable.



Folded
Net weight:9.8kg





Extended Leg Length 23.6" to 38"



Item Code for LED Reflective Roll-up Traffic Sign:

e.g.: LRUS-WORKER SYMBOL-36x36

PICTURE	ITEM CODE	SPECIFICATION
	LRUS-	Led reflective roll-up Traffic sign
	-NAME OF SIGN	Design of traffic sign
	-36x36	Dimension of Traffic sign
	-48x48	

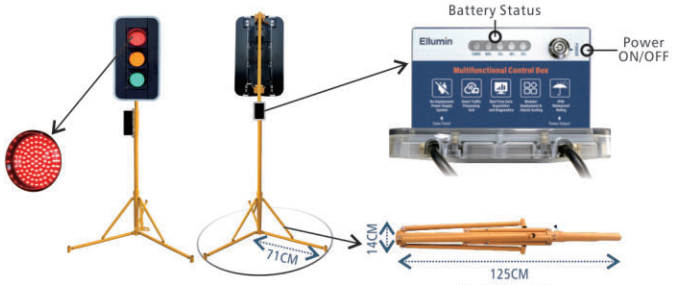
Accessory List For LED Reflective Roll-up Traffic Sign:

PICTURE	ITEM CODE	SPECIFICATION
	LRUTS-B	Heavy duty braces for roll up signs
	LRUTS-P	1set of pocket include front and back
	TP-03	Foldable heavy-duty stand
	BX-3	Rechargeable battery box12v 23ah Lifepo4 battery

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Mobile Traffic Light

Light weight design-less than 14kg without carriable bag.



MTL-001

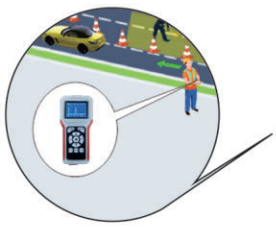


Carriable bag with wheels and telescoping handle

Light weight design-less than 14kg without carriable bag



MTL-002



Real-time display screen on controller:

Pair of traffic lights:



Operation mode selection:



Battery & lamp state visible:

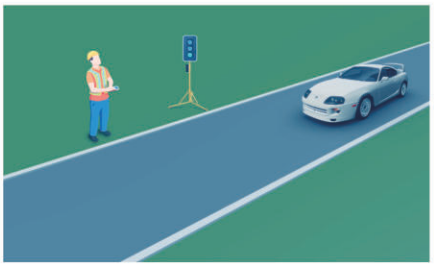


Item Name	Picture	Item Code	Specification	Item Name	Picture	Item Code	Specification
Traffic Light		MTL-001	DIA:200MM PC cover	Target Board		MTL-TB	Aluminum Unfold:1140*600mm Fold:1140*295mm
Traffic Light		MTL-002	DIA:200MM Optic lens	Rechargeable Battery For Traffic Light		BX-3	12V 23Ah LiFePO4 battery
Foldable Stand		TP-02	Height expandable	Handle Remote Controller		HRC-001	Distance over 300meters
Mobile Trolley		PTT-S	Base size: 500(L)*390(W) *300(H)mm	Carry Bag		MTL-CB01	With wheels & handle

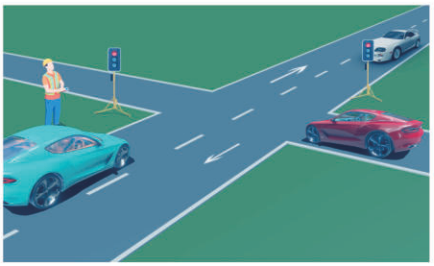
PTSU Lantern Head Specification

MTL-001							MTL-002						
●	Single LED Brightness	3000~6300mcd	Wave Length λd	625±5nm	Visual Angle	30°	●	Single LED Brightness	4000~6000mcd	Wave Length λd	625±5nm	Visual Angle	50°
●		3000~6100mcd		590±5nm		30°	●		4000~6000mcd		590±5nm		50°
●		6000~11000mcd		505±5nm		30°	●		3200~5500mcd		505±5nm		50°
●	Full Lamp	LED Quantity	Brightness		LED Quantity		●	Full Lamp	LED Quantity	Brightness		Power	
●		90 pcs	> 230cd		≤7W		●		61 pcs	> 230cd		≤6W	
●		90 pcs	> 230cd		≤7W		●		61 pcs	> 230cd		≤6W	
●		90 pcs	> 230cd		≤7W		●		61 pcs	> 300cd		≤5W	

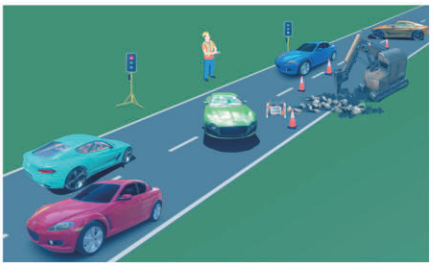
Shell Material:Plastic Working Temperature:-40℃~+80℃ IP Level:IP55 Visible Distance:≥300m



Gating Mode



Plant Crossing

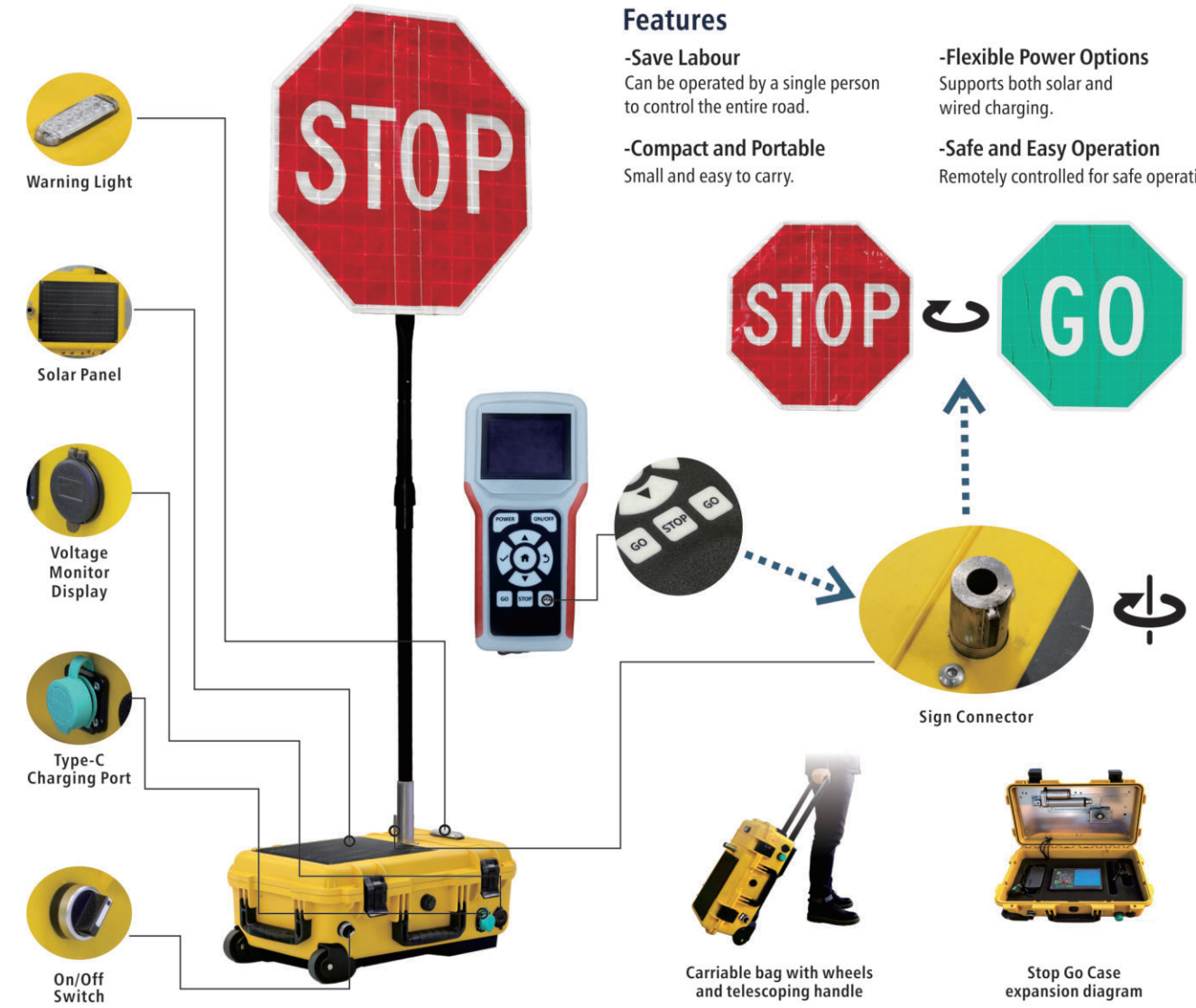


Shuttle Mode

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Stop Go

Simple and convenient for traffic management.



Features

-Save Labour
Can be operated by a single person to control the entire road.

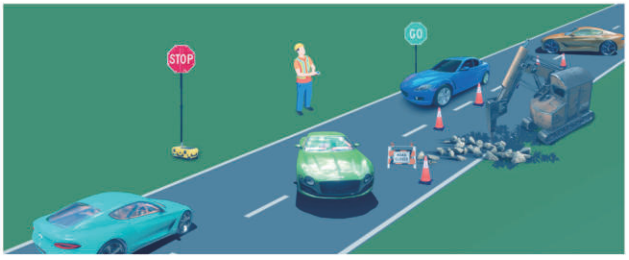
-Flexible Power Options
Supports both solar and wired charging.

-Compact and Portable
Small and easy to carry.

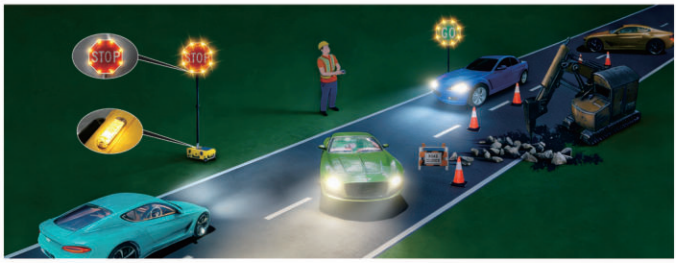
-Safe and Easy Operation
Remotely controlled for safe operation.

ITEM NAME	PICTURE	ITEM CODE	SPECIFICATION
Stop Go Case		MSG-001-RL	Dia:590*320*250mm Solar panel:20W Battery:12V,23Ah
Remote Controller		MSG-001-HRC	Distance:Over 300 meters Battery:2000mAh
Case Charger		MSG-001-CH	Input:AC90-240V Power:12V

ITEM NAME	PICTURE	ITEM CODE	SPECIFICATION
Roll-up Sign		MSG-001-RUS	Meet ASTM D4956-Type XI Material:Relective sheeting Size:24"
LED Roll-up Sign		MSG-001-LRUS	Meet ASTM D4956-Type XI Material:Relective sheeting Size:24"(Size can be customized)16pcs LEDs Function:Flash-off Battery:2000mA rechargeable Li battery
Aluminum Stop Sign		MSG-001-AS	Material:Aluminum Size:600mm



For Daytime Use



For Nighttime Use

+86-576-80230333
sales@ellumin.com
www.ellumin.com

EN 12352 Cone Light

The EN 12352 solar cone lamp is powered by solar energy, saving on labor and promoting eco-friendliness.



AB-185 Series



AB-SU185-PRO Series

Brightness	Flash	Steady	Infrared Sequential Flash
	>4CD	>2CD	>30CD

Item Code List With Different Specifications:

e.g.:AB-SU185F-PRO-IR-WOP-1W(means solar power type, flash function, wireles infrared sequential fash function, without photo-sensor,with 1W SMD)

PRODUCT		ITEM CODE
	Battery Power	AB-185
	Solar Power	AB-SU185-PRO
	Flash	-F
	Steady	-NF
	Wireless Synchronized Flash	-WIFI-SYN
	Wireless Infrared Sequential Flash	-IR
	With Photo-sensor	-WP
	Without Photo-sensor	-WOP
	Use 8mm LED	-8mm
	Use 1W SMD	-1W

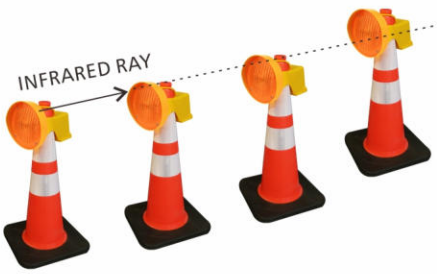
OPTIONAL BATTERIES		ITEM CODE
	Lead-acid Batteries	6V 4R25
	Single Rechargeable 4AH Li-battery	6V-4AH-RE
	Single Rechargeable 8AH Li-battery	6V-8AH-RE
	Charger For Single Li-battery	LBC-C
	Rechargeable Li-battery Box For 8pcs Batteries	RBCB-8

Wireless Synchronized Flash



AB-SU185F-PRO-SYN-WP

Wireless Infrared Sequential Type



AB-185F-INFRARED-WOP

Note: Neighbouring lamps 2-18 m distance and -10° to +10° angles.

Anti-Intrusion Warning System-For Construction

- Instant intrusion detection & evacuation alert.
- Wireless & Real-time signal transmission.



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 & Shoulder Light, and the buzzer alarm quickly reminds the constriction workers: Dangerous intrusion, pay attention to avoid.

1.Traffic Cone Light (AB-SU185F-PRO-IR-2) [wifi↑]

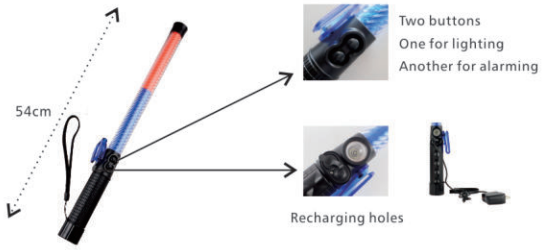


Signal from lamps to shoulder light/ led baton over 200 meters

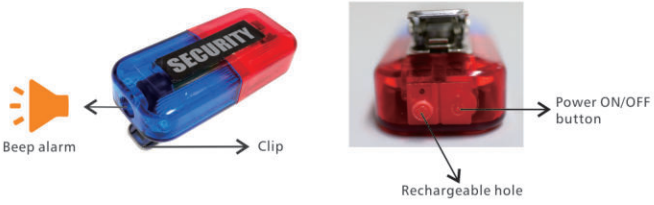
*Note: [wifi↑] This Symbol Represents the Signal Sender, [wifi↓] This Symbol Represents the Signal Receiver.

Alarm Accessories:

1.Traffic Baton(ST-397-2) [wifi↓]



2.Shoulder Light (PSL-003-2) [wifi↓]

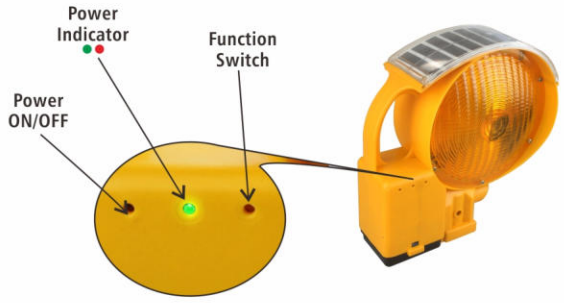


ACCESSORY LIST		ITEM CODE
Solar Cone Lamp	Solar power, Sequential flash standby, if been crashed down, send signal to shoulder light & traffic baton to warning workmen	AB-SU185F-PRO-IR-2
Shoulder Light	Red & Blue flash standby, buzzer alarm once receive signal from solar cone lamp LED color for Shoulder Light & Traffic Baton can be changed according to requirement	PSL-003-2
Traffic Baton		ST-397-2
Battery	Single Rechargeable 8AH Li-battery	6V-8AH-RE

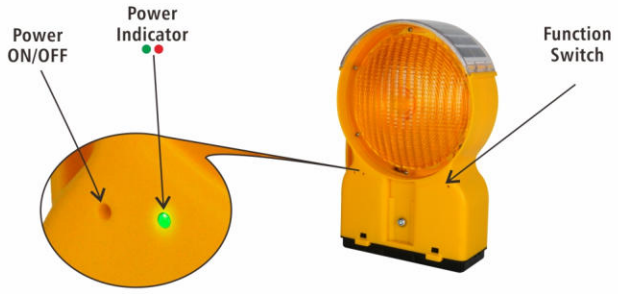
+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin EN 12352 Warning Lights

- Conguer winter nights with extended battery life.
- Lower labor costs.



1 BATTERY BASE



2 BATTERIES BASE

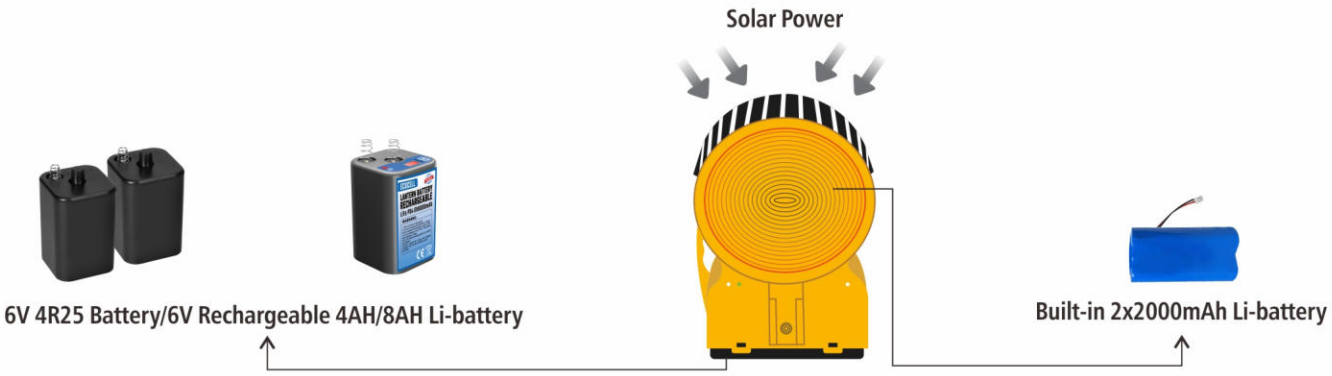
Solar Panel 8V

PC Lens

PP Frame

For solar power version, build in 2000mAh Li-battery, or rechargeable battery of 4000mAh / 8000mAh optional.

Energy-efficient: Powered by renewable solar energy	**Cost-effective:** Lower operating and maintenance costs
Eco-friendly: Reduce carbon footprint	**Low maintenance:** Longer lifespan with fewer repairs
Reliable: Work independently from the grid	**Flexible:** Easy to install in remote areas



Working Hours For Reference:

CLASS	Lens	Function	Charge 5 Hours Under Sun	Built-in 2 x 2000mAh Li-battery	Rechargeable 4AH Li-battery	Rechargeable 8AH Li-battery
L6	Two Sides	Flashing	136h	180h	360h	720h
		Steady	28h	40h	80h	160h
L7	One Side	Flashing	136h	180h	360h	720h
		Steady	28h	40h	80h	160h
L8L	One Side	Flashing	31.5h	/	45h	90h

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin EN 12352 Warning Lights

• Flexible configuration. • Different class optional.

Classes Of Barricade Light According To European Standard EN 12352

CLASS	Light Emitting Surface (cm ^ 2)	Angle ranges		Luminous Intensity(cd)	
		Horizontal	Vertical	Minimal	Maximal
L6	≥2x250	+10° to -10°	+5° to -5°	10	100
L7	≥250	+10° to -10°	+5° to -5°	20	100
L8L	≥250	+7.5° to -7.5°	+5° to -5°	250	500

Item No. List With Different Specifications:

e.g.:SP-L8L-BSU-N-2-WIFI-SYN (means L8L standard, solar power type(without battery built in),2 batteries base, wireless synchronized flash)

PRODUCT		ITEM CODE
	L6 Standard (Double Lens, Flash-Steady)	SP-L6
	L7 Standard (Single Lens, Flash)	SP-L7-B
	L8L Standard (Single Lens, Flash)	SP-L8L-B
	Battery Power	-6V
 	Solar Power Type (Built-in 2 x 2000mAh Li-battery)	-SU
	Solar Power Type[Use 6V Re-battery (Battery Not Include)]	-SU-N
	2 Batteries Base	-2
	Wireless Synchronized Flash	-WIFI-SYN
	Wireless Sequential Flash	-WIFI-SEQ

OPTIONAL BATTERIES		ITEM CODE
	Lead-acid Batteries	6V 4R25
	Single Rechargeable 4AH Li-battery	6V-4AH-RE
	Single Rechargeable 8AH Li-battery	6V-8AH-RE
	Charger For Single Li-battery	LBC-C
	Rechargeable Li-battery Box For 8pcs Batteries	RBCB-8

Installation Methods:

-Designed with a base to fit specific European road sign posts, equipped with screws for easy installation.

-Metal clamp backside, also can fix on the construction area.





+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ecocell 6V Rechargeable Lantern Battery

Efficient, Eco-friendly power for your devices!





Press The Button
To Checking
Battery Status
(Auto off after 10 seconds)



Battery
Status



Type C
Charging
Terminal

Item No.: 6V-4AH-RE/6V-8AH-RE

Battery Specification	
Size	65*65*113mm
Battery	6.41V 4000/8000mAH Lithium battery
Weight	418g

Single Li-ion Battery Charger	
Input	100V ~ 240V 50-60Hz
Output	7.5V 2A
Include Indicator Light	Charging: Red, Full: Green
Charge Time	Around 6 hours for full charge

Portable 8 In 1 Charging Station

Convenient to carry, save time to charging eight batteries once.



Li-ion Battery Charger
Item No.:LBC-C



Box Charger



8pcs USB
Terminal on Box



Item No.: RBCB-8



Type C
Charging Lines
For Batteries



Box Charger Terminal
Lock Design, Press
Double Sides to Release

Rechargeable Battery Box Specification	
Inner Dimensions	390*296*160mm
Outer Dimensions	420*330*215mm
Weight	1884g
Buckle Material	Plastic

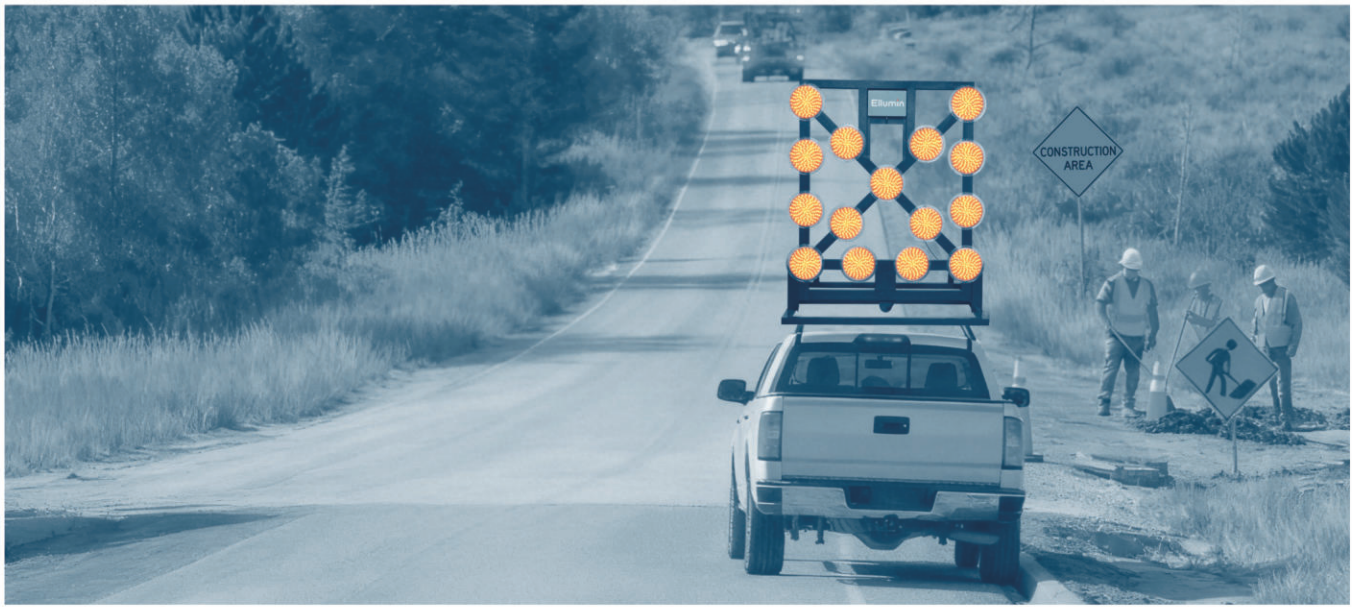
AC/DC Adapter	
Input	100-240V~50/60Hz 2.5A
Output	7.5V⎓10.0A 75.0W
Charge Time	Charge Time: Around 10 hours for full charge (8 batteries charge together)

PRODUCT		ITEM CODE
	Single Rechargeable 4AH Li-battery	6V-4AH-RE
	Single Rechargeable 8AH Li-battery	6V-8AH-RE

PRODUCT		ITEM CODE
	Charger For Single Li-battery	LBC-C
	Rechargeable Li-battery Box For 8pcs Batteries	RBCB-8

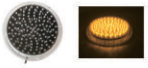
Vehicle Mounted Arrow Board With EN 12352 Lamps

90° up & down arrow board with high-visibility lamps.



Ellumin Vehicle Mounted Arrow Board including 15pcs of L8 lamps, complied with European Standard EN 12352:2006.

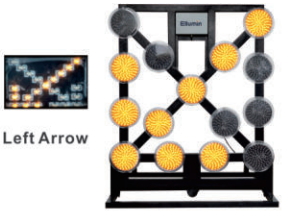
Specification			
Frame Material	Iron(Thickness:2mm)	Working Temperature	-20°C~70°C
Board Dimension	1020mm*1290mm	Flash Method	Left arrow/Right arrow/Cross
LED Quantity	15pcs of EL-L8 Lamp, each lamp include 120pcs LED	Working Voltage	DC 12V
LED Color	Yellow	LED Working Current	12V 550mA /13.2V 810mA
Waterproof	IP64	Lifter Working Current	2.6A/0.8A

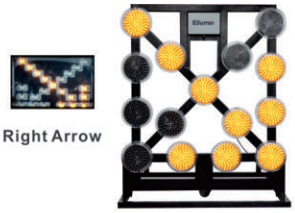
VEHICLE MOUNTED ARROW BOARD		ITEM CODE
	Complied with European Standard EN 12352:2006	EAB-EU15
	L8 Lamps	EL-L8

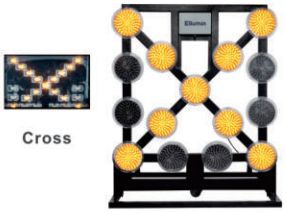
ACCESSORY LIST		ITEM CODE
	Rechargeable Wireless Arrow Lamps Controller	HRC-004
	LINAK Lifter	LF-002

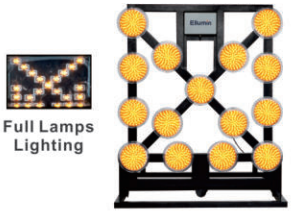
Working Condition of ARROW LAMPS And LIFTER on Controller











+86-576-80230333
sales@ellumin.com
www.ellumin.com

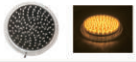
Truck Mounted Arrow Board With EN 12352 Lamps

A highly visible arrow board to guide lane changes and warn drivers of lane closures.



Ellumin Truck Mounted Arrow Board including 24pcs of L8 lamps and 2pcs of L9 lamps, complied with European Standard EN 12352:2006.

Specification		
Pictures		
Item Code	EAB-001	EAB-002
Dimension	Fold dimension:(W)2200x(H)2240x(T)500mm , Unfold dimension:(W)2200x(H)3240x(T)500mm	
Display Size	P16 RGB VMS dimension:1792(W)x1536(H)mm APP by closed WIFI for change messages	LED arrow board dimensions:1030x1030mm Include 580pcs white LED
Material	3M DG3 RED & WHITE reflective	
Power Supply	DC 24V	

ACCESSORY LIST		ITEM CODE
	Rechargeable Wireless Arrow Lamps Controller	HRC-003
	L8 Lamps	EL-L8
	L9 Lamps	EL-L9M
	Lifter	LF-001



① Function Of ARROW LAMPS

② UP/DOWN Of LIFTER
press DOWN button can pause when UPPING
Press UP button can pause when DOWNING

③ Storage battery capacity level: THREE full, ONE lack of power

④ Working condition of ARROW LAMPS(When lifter RAISING or Downing,ARROW LAMPS OFF automatically)

⑤ Controller POWER

⑥ ON/OFF for ARROW

⑦ UP/DOWN switch for lifter

⑧ Function Of ARROW LAMPS

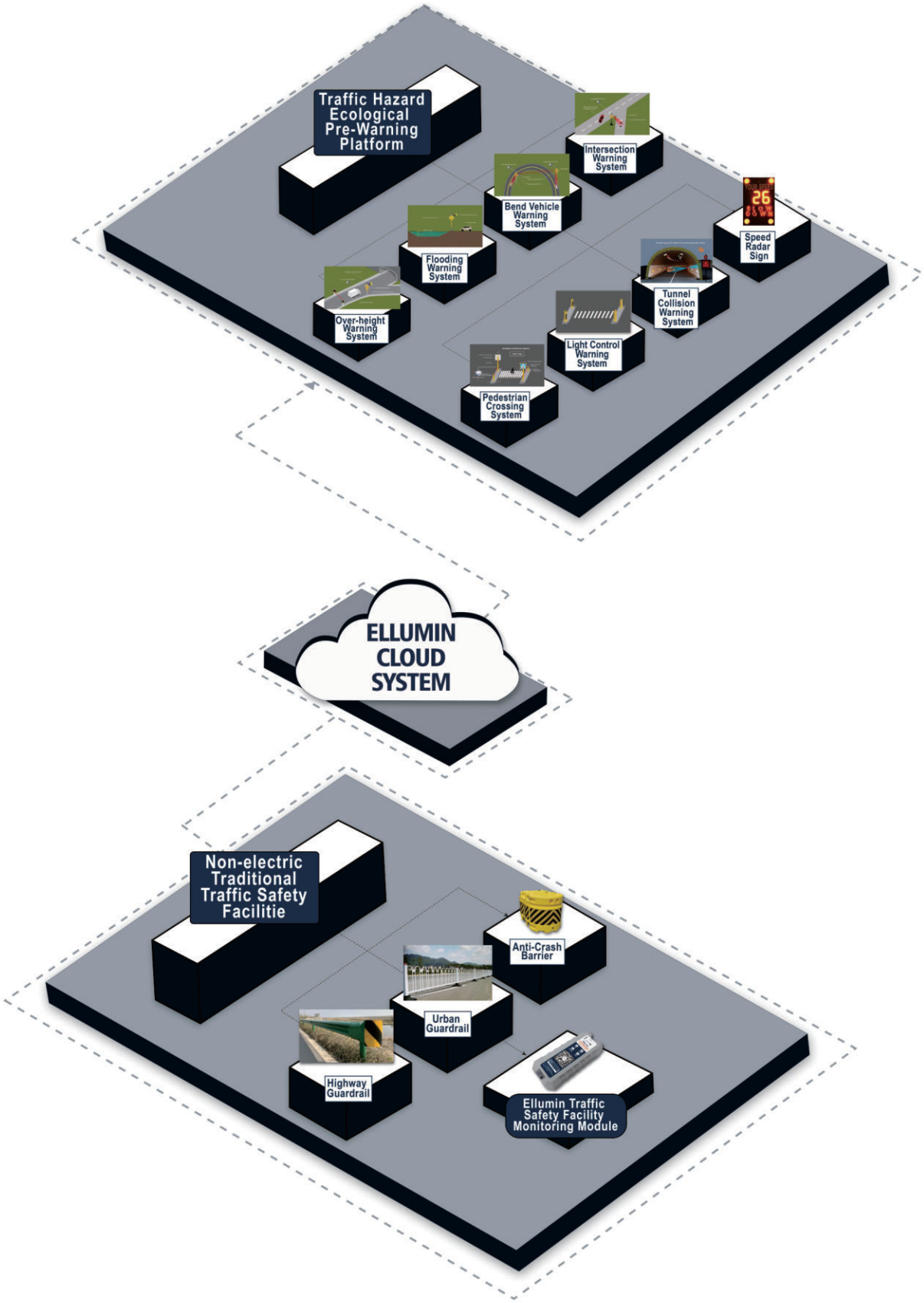
⑨ Backup button for OEM

⑩ Charging hole on the bottom of controller

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Warning Systems

Supports various traffic scenarios and is compatible with Ellumin Cloud Warning System.



+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Cloud Warning System

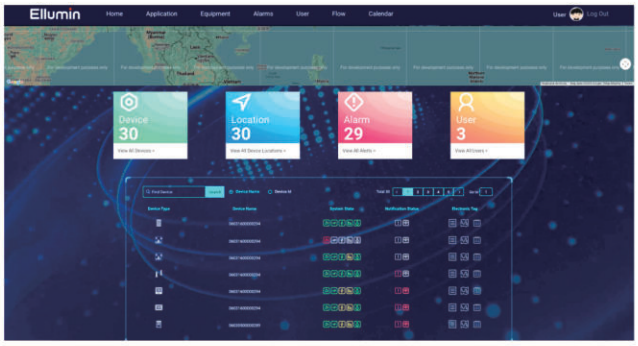
Link and operate all ellumin system on cloud.

- ·Technology-based platform
- ·Efficient traffic management
- ·All-in-one control
- ·Compatible with all Ellumin warning systems
- ·Improves traffic order

ELLUMIN CLOUD WARNING SYSTEM	PRODUCT	ITEM CODE
	Monitoring Device	ECP-01
	Online Control Device	
	Programmable Control	
	Data Collection&Reporting	
	Settable Accounts	
	Emergency Notification	

Monitoring Device

You can click device to monitor it's operation status. Supporting find device through map and key words.



Data Collection&Reporting

Generates daily data reports and exports historical data to excel for strong analysis support.



Online Control Device

You can remotely change the operating status of the device.



Settable Accounts

Main and sub-accounts can be linked via phone or email to control devices.



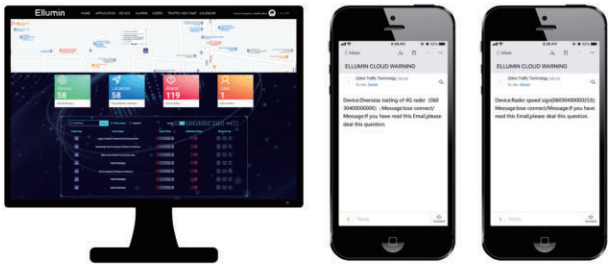
Programmable Control

Calendar editor for easy device scheduling with holidays and daylight saving.



Emergency Notification

Instant alerts via email and web for emergencies or device issues.



+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Multi Functional Control Module

Supports all Ellumin warning systems.

Features

·Low power consumption
·Simple and user-friendly to operate
·Compatible with Ellumin Bluetooth APP
·Works with Ellumin Cloud Warning System
·Various interfaces for additional funtions



Item Code	Size
EPS01B	17*12*3.5cm
Power Supply	**Power Consumption**
DC 12V	40mA

Supported Ellumin Warning Systems



Wrong Way Detection Warning System



Vehicle Intersection Warning System



Guardrail Anti-collision Warning System



EN Standard Intelligent Pedestrian System



RRFB Intelligent Pedestrian System



Crosswind Warning System



Water Level Warning System

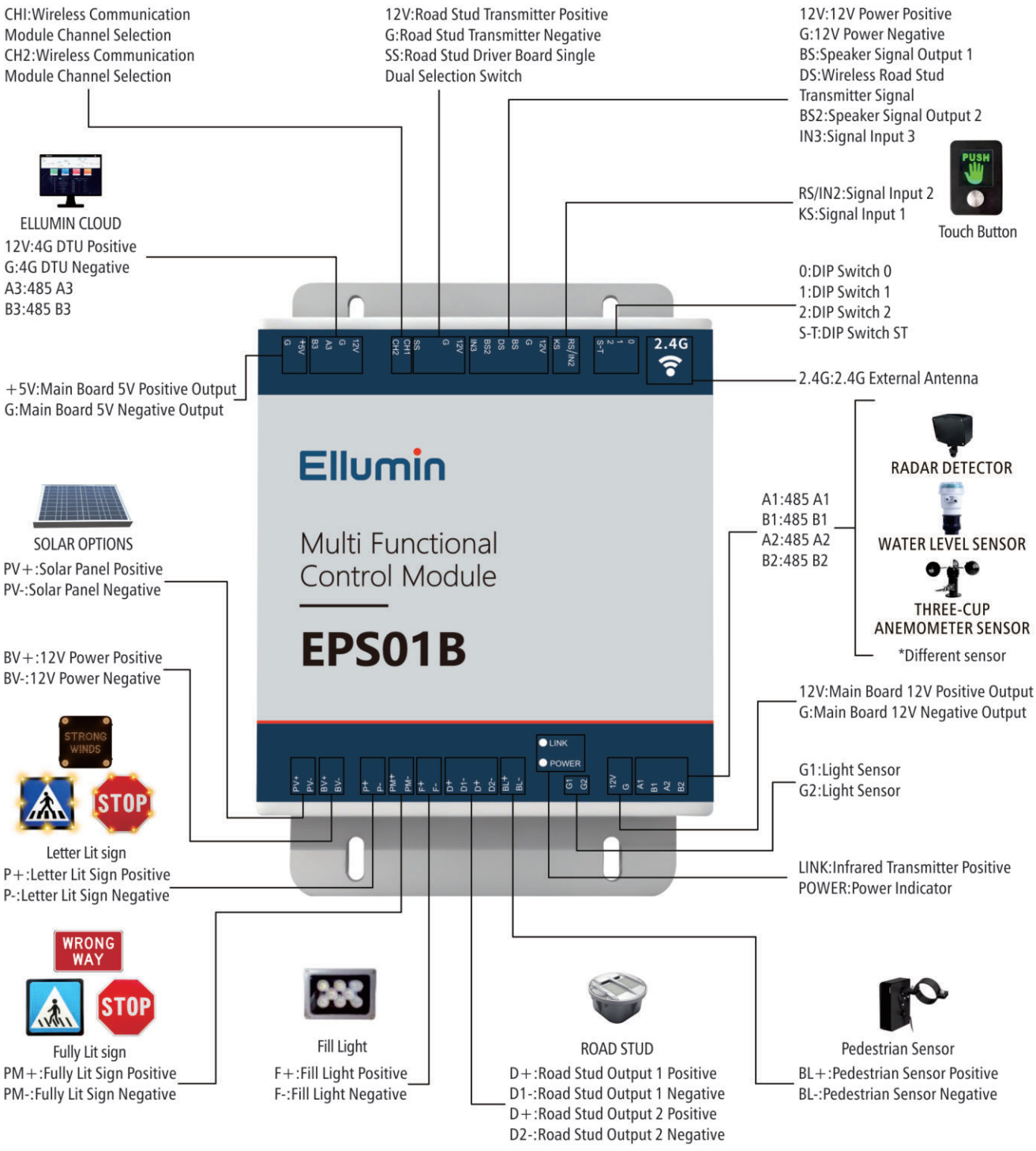


Vehicle Over Height Warning System

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Multi Functional Control Module

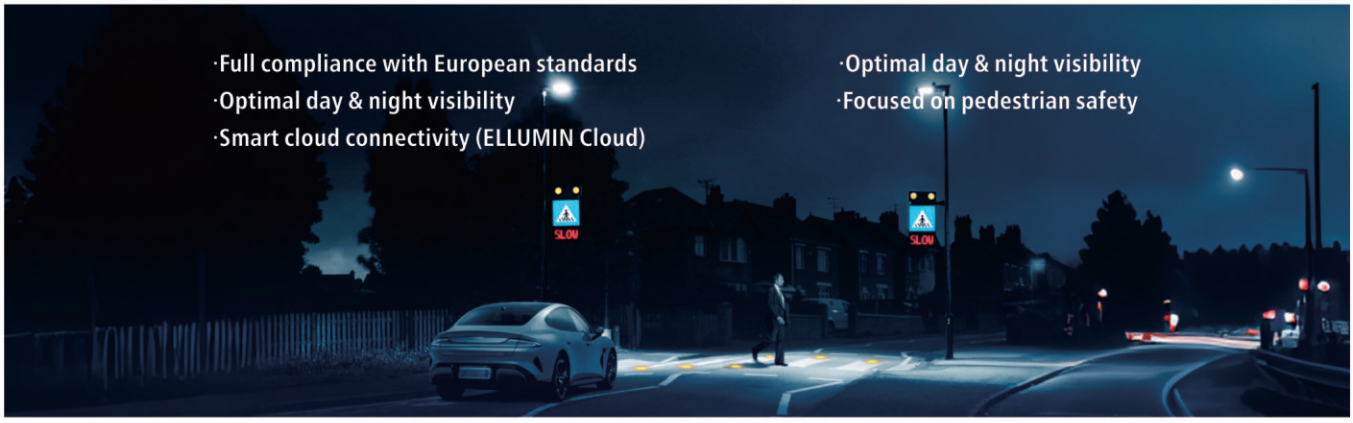
A module that can be easily customized for your Ellumin warning system.



+86-576-80230333
sales@ellumin.com
www.ellumin.com

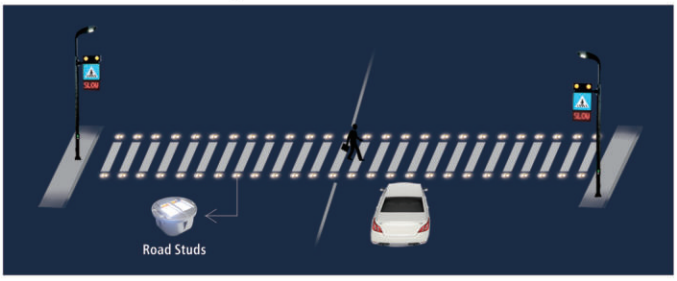
EN Standard Intelligent Pedestrian System

The bright answer to pedestrian safety.





System with LED Bricks



System with Road Studs

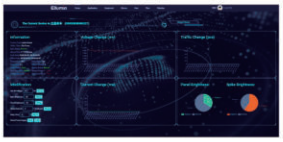
Ellumin 4G Online Control Platform

-Monitoring device
-Programmable control
-Emergency notification
-Online control device
-Data reporting









Applications:

-Pedestrian crosswalks(zebra crossings)
-School crossing patrol areas
-Intersection conflict warning systems
-Urban gateway and traffic calming projects

Recommended Available Accessories

EN 12352 LAMP		ITEM CODE
	Single Side (2 Lamps)	EL-L2S/L8S
	Double-side (4 Lamps)	EL-L2D/L8D
SIGN		
	Fully Lit Sign	ILS Series
	Double-side Sign	ILS-D Series
	Edge Lit Sign	ELS Series
	Fully+Edge Lit Sign	IELS Series
PUSH BUTTON		
	With LED Indicator	PB-002
	Wireless Type	PB-003
SOLAR OPTIONS		
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3

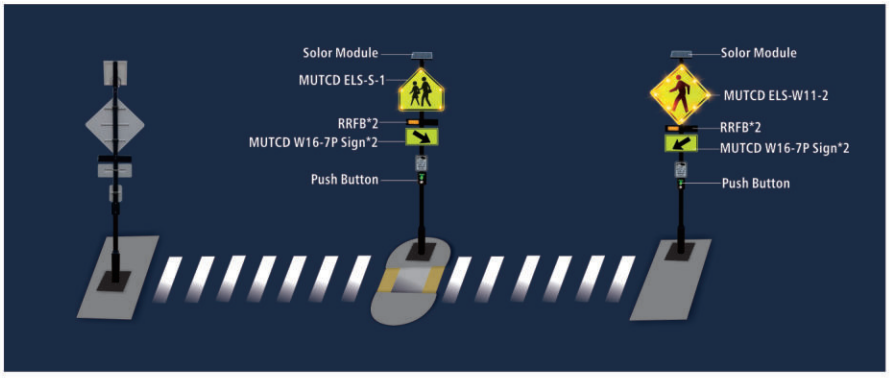
ROAD STUD		ITEM CODE
	Cable One Aspect	BL-004CA
	White Panel Version	BL-004CA-P
	Solar One Aspect	BL-004SU
	Cable Two-aspect	BL-005CA
LED BRICK		
	LED+Case Iron	LB-01-4020
	Rectangle 48*14cm	LB-02-4814
STREET LIGHT		
	150W 6000K	SL-150W
MESSAGE SIGN		
	P20RG 64*32cm	LPVMS-64*32
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

+86-576-80230333
sales@ellumin.com
www.ellumin.com

RRFB Intelligent Pedestrian System

Press to claim your right of way.





Applications:

-School zone flashers
-Pedestrian & Crosswalk warning systems
-Work zone & temporary traffic control
-Intersection curve warning systems
-Railroad crossings
-Low-cost, high-impact traffic calming projects

Recommended available accessories

RECTANGULAR RAPID FLASHING BEACON		ITEM CODE
		RRFB
PUSH BUTTON		
	With LED Indicator	PB-002
	Wireless Type	PB-003
SOLAR OPTIONS		
	20W+12Ah	SU-1+BX-1
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

ROAD STUD		ITEM CODE
	Solar One Aspect	BL-004SU

SIGN	ITEM CODE
Edge Lit Pedestrian Sign	ELS-W11-2
Edge Lit School Sign	ELS-S-1
Aluminum Sign	W11-2
Arrow Sign	W16-7
Instruction Sign	R10-25

OPTIONAL ACCESSORIES		ITEM CODE
	Alternate Flashing Beacon	SWL-D30S



The Regular Crosswalk



The Schoolzone Area

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Belisha Beacon Pedestrian Crossing System

The designs for daytime visible.

The Belisha Beacon system is a classic, effective, and elegantly simple solution for marking pedestrian crossings. Its enduring design leverages high-contrast visuals and flashing lights to save lives by clearly communicating the presence of a pedestrian priority zone to drivers.

Features

·Iconic appearance
·High visibility and conspicuity
·Historical and cultural recognition
·Promotes pedestrian safety
·Simplicity and intuitive understanding
·Cost-effectiveness



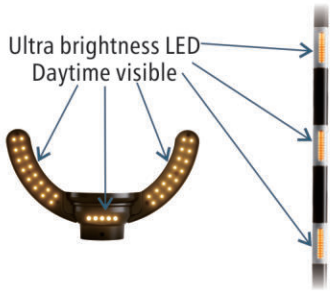


Nighttime effect

Belisha Beacon
ZBB-D30



Belisha Beacon With
Swing LED ZBB-D30-S



Material	Size	Style	Weight	Color	LED Qty	Brightness	Function
Beacon: PMMA	Ø300mm	Beacon only	2kgs	Yellow	12pcs White SMD	≈8CD	Flashing Steady
Swing: Aluminum		Beacon+Swing			12+64pcs 5mm LED	≈55CD	



Day Mode

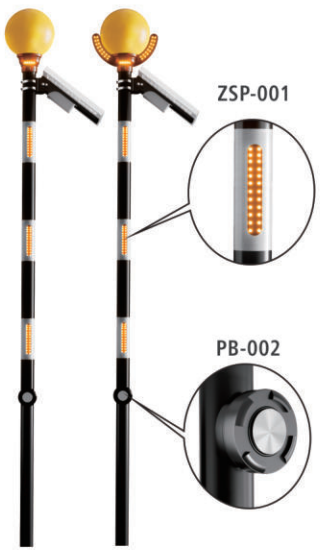
The high-intensity daytime LED fashes when triggered, alerting drivers to give way.



Night Mode

At night, the Bolisha boacon also flashes regularty to provide additional warning.

RECOMMEND AVAILABLE ACCESSORIES		ITEM CODE
	Belisha Beacon	ZBB-D30
	Belisha Beacon With Swing LED	ZBB-D30-S
	Zebra Safe LED Pole	ZSP-001
	Wireless Push Button	PB-002
SOLAR OPTIONS		
	20W+12Ah	SU-1+BX-1
	40W+23Ah	SU-2+BX-3
ELLUMIN CLOUD		
	4G Online Control Platfrom	ECP-01



ZSP-001

Pole Material:Iron
Pole Size:(H)3000*(ϕ)76mm
Weight:24 kgs
LED:24*6=144pcs/pole

PB-002

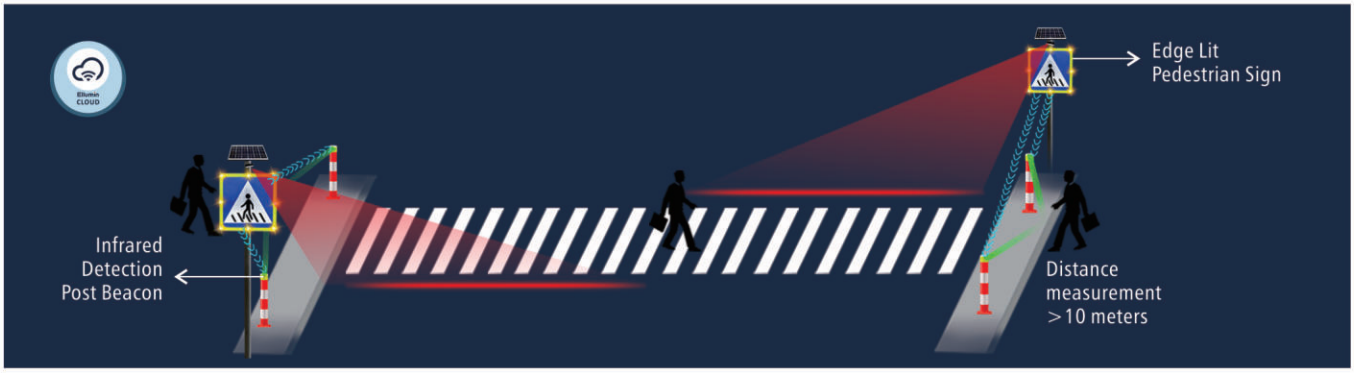
Material: Stainless steel
Wireless Design
(Self-powered/battery)
Size:(ϕ)92*55mm

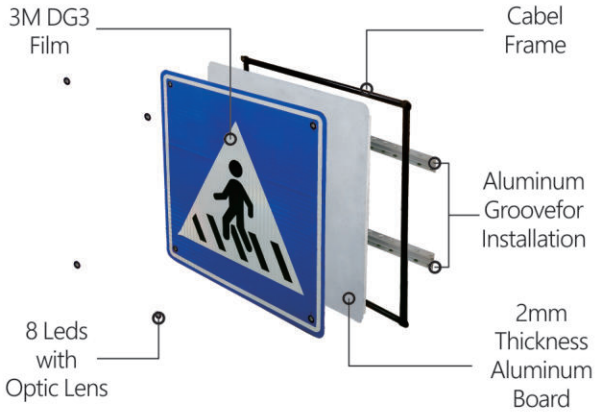
+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Wireless Intelligent Pedestrian Crossing System

• Deploy freely. • Protect automatically. • The next-gen crosswalk system.

·The whole system wireless connection, screws only for installation for all items
·Quick installation and easy for maintenance
·Accurate detection, real-time activation
·Double warning devices, Double warning effect

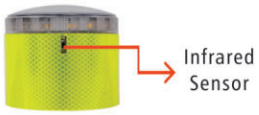




Edge Lit Sign Pro

Item Code	Material	LED	Visual Recognition Distance	LED Brightness	Function
ELS-80	Aluminum Plate+3M DG3 Film+Optical Lens	8pcs 1W LED with optic lens	1000mtrs (Day Time)	80CD/Piece	Flashing Steady

Solar powered beacon light, with Infrared sensor, Led strobe flashing and send the signal to the Edge Lit Sign Pro in the meanwhile.



·Standby time:Over 30days
·Detecting distance: > 10 meters



Item Code	Dimension	Battery	Flash Frequency	Lighting Degree
AB-SU1116-IR	Ø126mm H113mm	3.7V 2000mAh Li-battery	135times/min	360°

Stop Bar Light



Item Code	Material	Power Supply	Power	LED
SBL-001	LED beads+ aluminum alloy housing+acrylic curved lens	DV12-80V	36W	12PCS Red Color



Item Code	Height	Base Size	Post Diameter	Weight
DH-FP-D12-H80	80cm	22.5*16.7cm	12cm	2kg

ACCESSORIES LIST		ITEM CODE
	Edge Lit Sign Pro	ELS Series
	Infrared Sensor Beacon	AB-SU1116-IR
	Stop Bar Light	SBL-001
	TPU Warning Post	DH-FP-D12-H80
	Solar Road Stud	BL-004SU-CTRL
SOLAR OPTIONS		
	20W+12Ah	SU-1+BX-1
	40W+23Ah	SU-2+BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01
ALL STYLES OF SIGNS ARE AVAILABLE		

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin LED Signs Collection

This series integrates six core LED lighting technologies, engineered to enhance traffic safety by improving sign visibility, guiding driver attention, and ensuring clear communication of road information under all conditions.

Types of Ellumin LED signs.



Fully Lit Sign



Edge Lit Sign



Letter Lit Sign



Double-side Fully Lit Sign



Fully + Edge Lit Sign



Letter+Edge Lit Sign

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Fully Lit Sign

- The art of even light.
- No glare ,no light pollution, make your city beautiful.

Fully Lit sign uses a panel of evenly distributed LEDs to create uniform illumination.

Features

- **EN 12899 Standard**
- Superior visibility and legibility
- Enhanced safety
- Modern aesthetic and urban integration
- Energy efficiency
- Reduced light pollution





GENERAL FUNCTION	
Switch 1	Flashing / Steady
Switch 2	Photocell On/Off
Switch 3	Auto-dimming On/Off

Material	Led Color	Reflective Film	Visual Distance	Power Supply	Waterproof Level	Working Temperature
PC sheet+Acrylic plate+ Aluminum panel	White	Avery 6600T	⩾1000 meters (at night)	DC12V	IP65	-20°C~+60°C

Double-side Fully Lit Sign

Your clear path, illuminated.



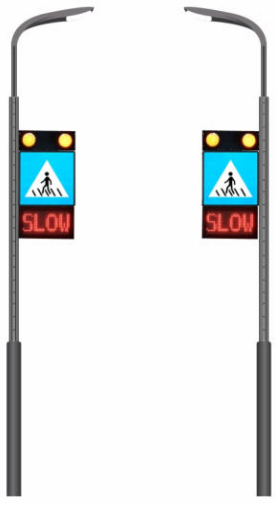
Double-side Fully Lit Signs offer 360° visibility at night or in low-light conditions through their dual-face lighting design, significantly enhancing pedestrian warning effectiveness and road safety

Features

- **Double-sided panel**
- **Full-range visibility**
- **Durability and low maintenance**
- **Modular design**
- **Smart traffic integration**

Applications:

-Urban city centers & pedestrian zones
-Tunnels and underpasses
-Public transportation hubs
-Parks and recreational areas





60x60CM



80x80CM

FULLY LIT SIGNS		ITEM CODE
	60*60cm	ILS-S60
	80*80cm	ILS-S80
	Double-side 60*60cm	ILS-D-S60
	Double-side 80*80cm	ILS-D-S80
ALL STYLES OF SIGNS ARE AVAILABLE		

EN 12352 FLASHING LAMPS		ITEM CODE
	Single Side (2 lamps)	EL-L2S
	Double-side (4 lamps)	EL-L2D
	Single Side (2 lamps)	EL-L8S
	Double-side (4 lamps)	EL-L8D

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Edge Lit Sign Pro

When visibility matters most.

- ·MUTCD Compliant
- ·Daytime visible light design
- ·3M DG3 reflective sheeting
- ·Anti-graffiti coating
- ·1W LED with optic lens
- ·Energy efficiency
- ·Energy independence (Solar)
- ·Easy installation
- ·Low maintenance

Features

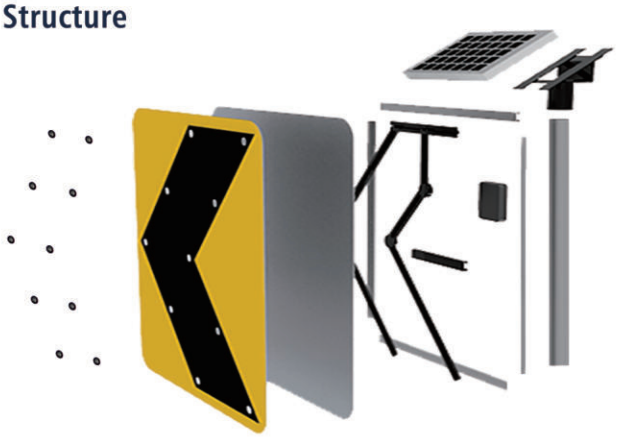
- ·High visibility
- ·24/7 visibility & awareness
- ·Improved safety & navigation
- ·Durability & Longevity
- ·Customizable design

This sign utilizes 8 ultra-bright 1W LEDs around its edge, ensuring 24/7 360° exceptional all-weather visibility.



Material	Led Color	Reflective Film	Visual Distance	Power Supply	Function	Photocell	Auto Dimming	Working Temperature
2mm Aluminum Panel	Yellow White Red	3M DG3	1000mtrs (Day Time)	Solar Power (DC12V)	Flashing Steady	Yes	Yes	-20℃~60℃

Sign Structure



EDGE LIT SIGN PRO		ITEM CODE
	Pedestrian Sign 24"	ELS-W11-2-24
	Pedestrian Sign 30"	ELS-W11-2-30
	Pedestrian Sign 36"	ELS-W11-2-36
	Stop Sign 24"	ELS-R1-1-2-24
	Stop Sign 30"	ELS-R1-1-2-30
	Stop Sign 36"	ELS-R1-1-2-36
	Chevron Sign 18*24"	ELS-W1-8-18*24
	Chevron Sign 24*30"	ELS-W1-8-24*30
	Chevron Sign 36*48"	ELS-W1-8-36*48
ALL STYLES OF SIGNS ARE AVAILABLE		



1W LED with Optic Lens



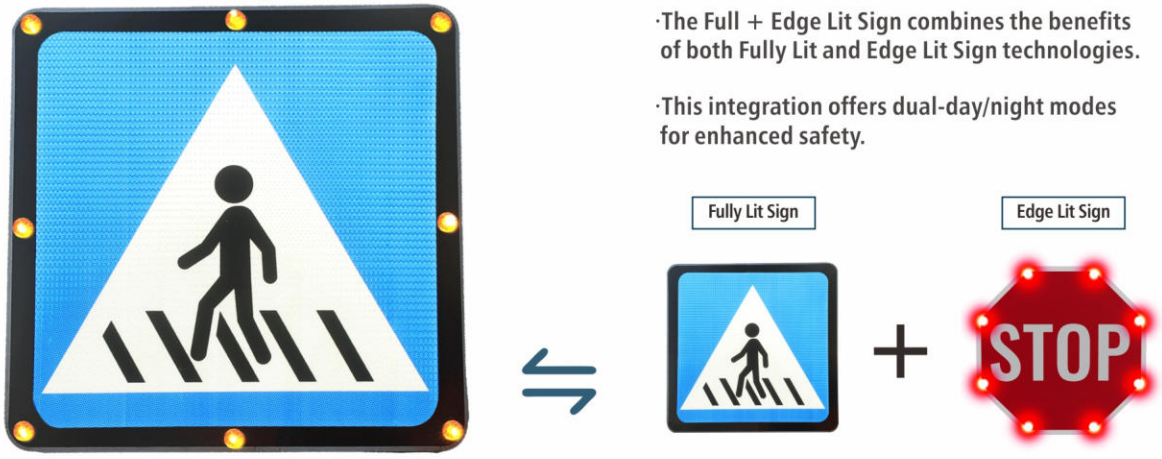
Integrated Solar Set



+86-576-80230333
sales@ellumin.com
www.ellumin.com

Fully + Edge Lit Sign

24/7 Warning System. Visual LED alerts for daylight, illuminate sign protection after dark.



·The Full + Edge Lit Sign combines the benefits of both Fully Lit and Edge Lit Sign technologies.

·This integration offers dual-day/night modes for enhanced safety.

Features

·24/7 visibility & awareness
·Improved safety & navigation
·Reduced light pollution
·Superior legibility
·Energy efficiency
·Modern aesthetic and urban integration
·Durability and low maintenance
·Reduced light pollution

Material	Led Color	Reflective Film	Visual Distance	Power Supply	Waterproof Level	Working Temperature
PC sheet+ Acrylic plate+ Aluminum panel+ PC optical lens	White(Inner) Yellow(Edge) or others	Avery 6600T	⩾1000 meters (Day and night)	DC12V	IP65	-20°C~+60°C

Function:

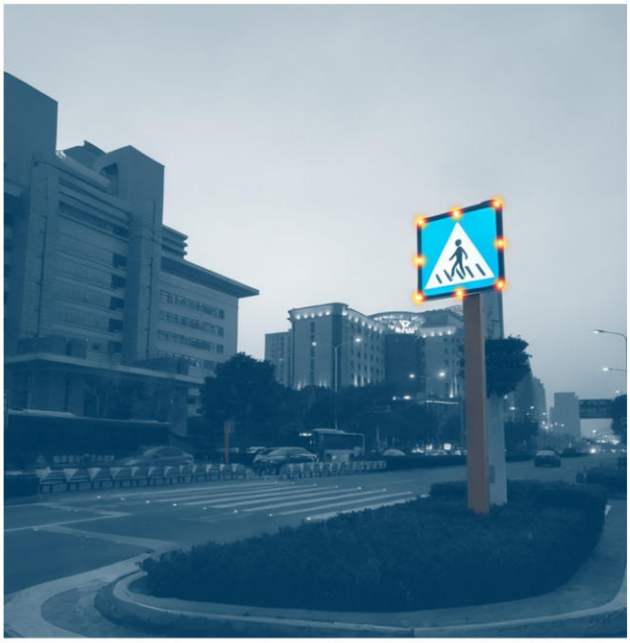
Day Mode:Edge lit - 8pcs 1W LEDs flash simultaneously
Night Mode:Fully lit- Uniform back-lighting across the entire sign

Activation Mode (Pedestrian-Triggered):



Day Mode:Activates Edge Lit (8*1W LEDs flashing)
Night Mode:Activates Fully Lit with Edge Lit to deliver an enhanced warning effect.

FULLY LIT SIGNS	ITEM CODE
Fully+Edge Lit Sign	IELS-S80
Push Button-Wireless type	PB-003
Pedestrian Sensor	PS-001
ALL STYLES OF SIGNS ARE AVAILABLE	



+86-576-80230333
sales@ellumin.com
www.ellumin.com

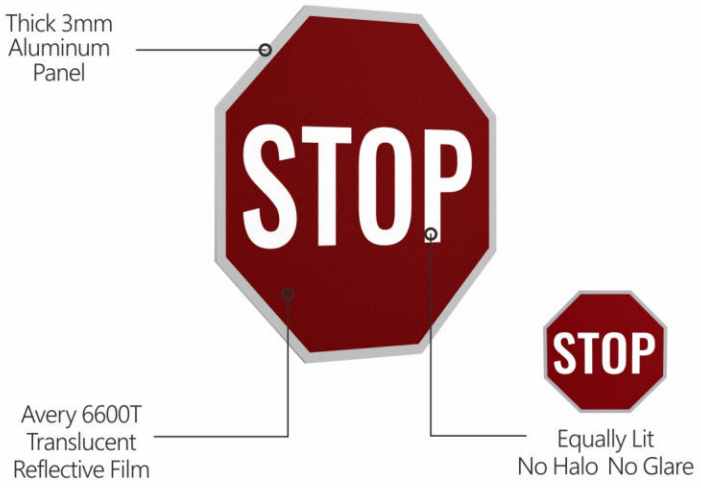
Letter Lit Sign

The even light only for the letter area, make it avaiable for solar solution.

Letter Lit Sign is a premium sign with illumination selectively confined to its characters or graphics.

·Automatic nighttime operation

·Daytime visible edge leds with optic lens



LETTER LIT SIGN	SKU
Stop sign 24"	LLS-SU-R1-1-24
Stop sign 30"	LLS-SU-R1-1-30
Stop sign 36"	LLS-SU-R1-1-36
Wrong Way 12*24"	LLS-R5-1A-12*24
Wrong Way 12*30"	LLS-R5-1A-18*30
Wrong Way 24*36"	LLS-R5-1A-24*36
ALL STYLES OF SIGNS ARE AVAILABLE	



Material	Led Color	Reflective Film	Size	Power Supply	Function	Photocell	Current	Power
3mm Aluminum Panel	White 14000K	Avery 6600T	24"*30"*36"	Solar Power (DC12V)	Steady	Yes	160mA	<2W

Letter+Edge Lit Sign

Day & night, guide right.

The Letter + Edge Lit sign is an integrated version of both Letter Lit and Edge Lit signs. The dual-mode warning enhances safety and can be combined with a radar detector to become a vehicle-activated sign.



LETTER+EDGE LIT SIGN	ITEM CODE
Stop Sign 24"	LELS-SU-R1-1-24
Stop Sign 30"	LELS-SU-R1-1-30
Stop Sign 36"	LELS-SU-R1-1-36
Radar Detector	ERD-01L
ALL STYLES OF SIGNS ARE AVAILABLE	

Vehicle Activated Sign
(Work with Radar Detector)



Item Code	Type of Antenna	Working Frequency	Operating Current	Beam Widths
ERD-01L	Flat array antenna	24.150GHz	70mA	Horizontal:20° Vertical:16°
Operating Humidity	**Pickup Distance**	**Measuring Range**	**Internal Measurement Error**	**Operating Temperature**
+95%	0-200m	(1~400)km/h	±0.1km/h	-40°C~+65°C



+86-576-80230333
sales@ellumin.com
www.ellumin.com

Embedded LED Road Studs

Patented design for Dual-sided warning:Driver see the amber light, Pedestrian see the white light.

Features

- ·Robust construction
- ·Active illumination
- ·Waterproof
- ·Enhanced safety and visibility
- ·Accident reduction
- ·Intelligent control
- ·Energy efficiency and sustainability
- ·Durability and low maintenance



Tube Base Optional
(For cable type)



BL-004CA-P

ROAD STUD	ITEM CODE
Cable One Aspect	BL-004CA
Cable One Aspect+White Led Panel	BL-004CA-P
Solar One Aspect	BL-004SU
Cable Two-aspect	BL-005CA
PLC Control System	RS-PLCS01



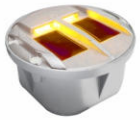
BL-004CA



BL-004SU



BL-005CA

WIRELESS SYNCHRONIZED TECH FOR SOLAR TYPE		ITEM CODE
	Synchronized Flashing(Automatically)	BL-004SU-WIFI
	Synchronized Flashing (Activated version)	BL-004SU-CTRL

Applications:

-Smart pedestrian crossing system
-Highways and expressways
-Urban roads and intersections
-Tunnels and underpasses
-Airport aprons and runways
-Parking lots and private roads

Wireless Synchronized Flashing - Activated Version



Signal Controller



Once activated, it sends a wireless synchronization command to the road studs, triggering synchronized flashing.

This function is only effective after receiving a trigger signal.



Smart Pedestrian Crossing System



Highways and Expressways



Urban Roads and Intersections



Tunnels and Underpasses

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Intelligent Pedestrian Crossing LED Bricks

• Let the road speak. • Visible, safe, intelligent.

Features

·Enhanced safety and wayfinding
·Customizable lighting
·Aesthetic appeal and ambiance
·Energy efficiency
·Weatherproof and slip-resistant
·Public engagement and interaction
·Durability and high load-bearing



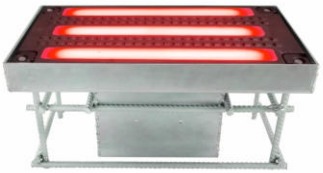
LB-02-4525



LB-02-4814



LB-02-3030

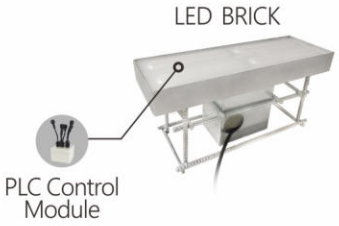


LB-01-4020

Material	Lighting Color	Material of Bracket	Standby Power Consumption	Voltage	Load Capacity	Led Brick Dimension
Polymer composite material +single layer quartz pebble	White/Yellow/ Red/Green color	Galvanized steel	≤10W	DC12V/24V	≥40Tons	480*140*50mm 450*250*50mm 300*300*50mm 300*100*50mm

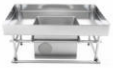
POWER LINE COMMUNICATION CONTROL SYSTEM (PLC) - FOR SMART PEDESTRIAN SYSTEM (BLUETOOTH)





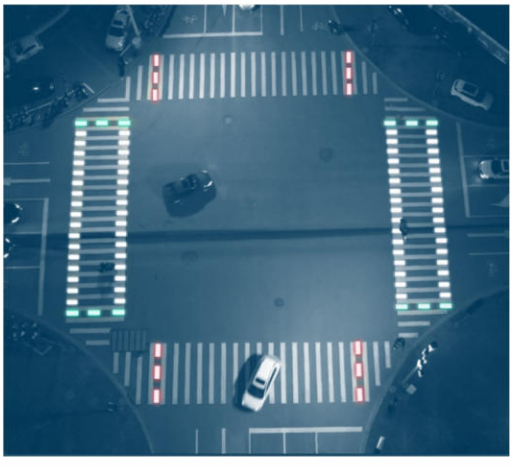
Features

·Easy for installation-Work for cable road studs / Led bricks
·Real-time faulty alarm
·Multiple function programming-brightness / flash pattern
·Bluetooth control App + Ellumin 4G platform

RECOMMEND AVAILABLE ACCESSORIES		ITEM CODE
	LED+Case Iron	LB-01-4020
	Rectangle 45*25cm	LB-02-4525
	Rectangle 48*14cm	LB-02-4814
	Rectangle 30*10cm	LB-02-3010
	Square 30*30cm	LB-02-3030
	Heavy-Duty Metal Ground Cage	LB-01-GC LB-02-GC Series
	PLC Control System (Bluetooth)	RS-PLCS01

Applications:

-Crosswalks and Pedestrian
-Urban Landscapes and Smart Cities



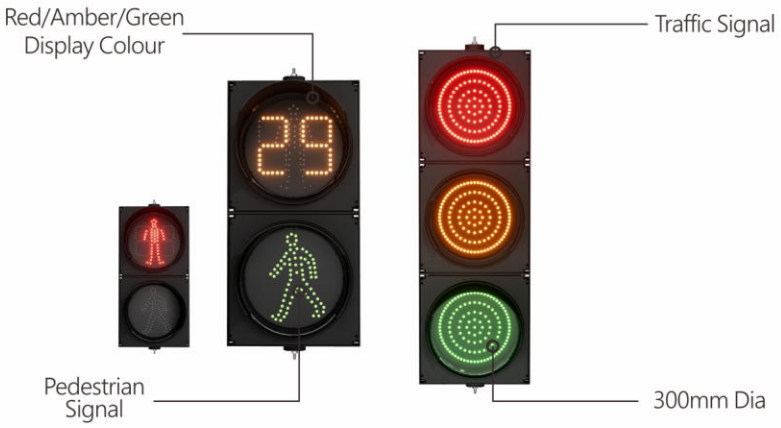
+86-576-80230333
sales@ellumin.com
www.ellumin.com

Solar Temporary Pedestrian Crossing Signal System

The solution for a quick installation pedestrian system.

The Solar Traffic Light System improves pedestrian safety by controlling vehicle traffic at crossings, operating similarly to standard systems but is entirely powered by a high-quality solar bank and is wireless, eliminating the need for wiring or trenching for power. All components are standalone. Push button activation initiates a programmable sequence: the traffic light changes to red, and the pedestrian symbol changes to a green walking figure, advising safe crossing. Timing is fully customizable.

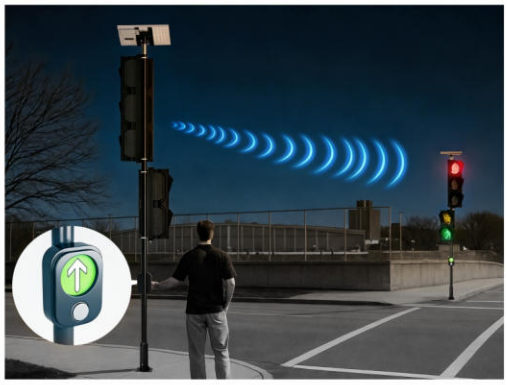
- ·Pedestrian and traffic signals time and mode of operations are programmable
- ·Dramatically increase the crossings visibility and improve the safety of pedestrians
- ·All component modules are solar powered and wirelessly connected
- ·＞96 hours autonomy
- ·IP67 Waterproof design
- ·Impact resistant signal case and faces
- ·Portable or fixed versions available
- ·Simple plug and play installation
- ·Efficient and effective visual enforcement





Specification			
Signal Faces	300mm Dia	Autonomy	5 night,setting dependent
Signal Faces Material	High impact polycarbonate	Light Source	SMD LED
Display Colour	Red/Amber/Green	Recharge	6 hours(interaction dependant)
Solar Panel Wattage	160W(Std Version)	Mounting Height	2.1-3m
Led Output	Variable	Standard Mounting	Galvanised steel column(STD)
Lumen Output	Variable	Finish	Various
Battery Type	Lithium-Ion	Warranty Period	2 Years
Battery Specs	100Ah 12V(Std Version)	SKU	SOLPED/TRAF

ACTIVATION BUTTON		ITEM CODE
	Power : <50W Working current:<0.5A Waterproof level:IP65 Material:aluminum+stainless steel	PB-001
ACTIVATION BUTTON ELECTRICAL(SOLAR TYPE)		
	Power supply: Solar module Solar module type:DC14V 160W Solar module size:660*416*35mm Battery:12V 100AH lithium battery Charge time:4.5 hours under strong sunlight Working time : Around 50 hours after a fully charge	HRC-001



+86-576-80230333
sales@ellumin.com
www.ellumin.com

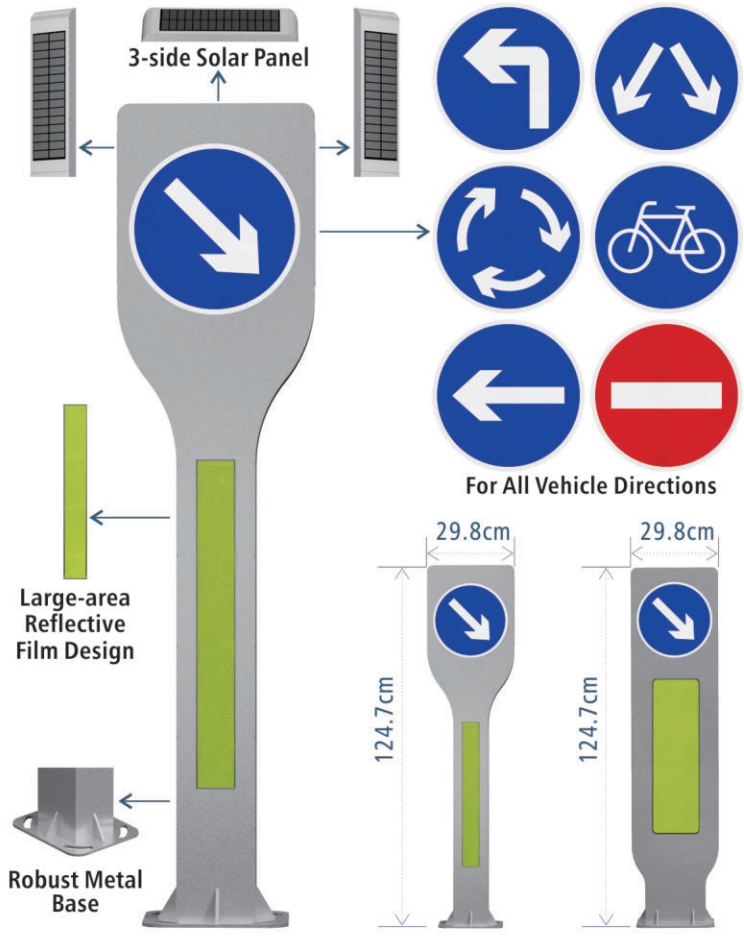
Illuminated Traffic Bollards

This bollard provides advance lane guidance for approaching traffic.

Features

- ·Proactive placement
- ·Dynamic traffic guidance
- ·Improved traffic flow
- ·Graphical & Symbol-based
- ·Lane use cControl
- ·Better driver anticipation
- ·Standardized design
- ·Enhanced safety
- ·Optimized traffic management

A robust internal iron frame combined with spray painting offers both strength and refined aesthetics.
Featuring an innovative 3-side solar panel design, captures sunlight from multiple angles.
Custom reflective films for all vehicle directions or graphics.
Its photocell sensor enables automatic daytime charging and nighttime operation for ultimate efficiency.
The large-area reflective film design adds a crucial passive safety layer to the traffic bollard.
Robust metal fixtures secure it to locations such as safety islands and in front of lane-divider barriers.



ITB-01

ITB-01 ITB-02



ITB-01



ITB-02

Picture	Item Code	Material	Size	Illuminate Area	Solar Panel Size	Solar Panel Capacity	Battery	Base Size
	ITB-01	Iron bollard with spray painting + PC lens	124.7*29.8cm	(Dia)255mm	83*228mm*3	5V 600mA*3 Approx 9W	3.7V 8Ah Lithium	18.5*22cm
	ITB-02		124.7*29.8cm		83*228mm*1	5V 600mA*3 Approx 3W		26*27cm

Picture	Item Code	Function	LED Color	Working Temperature	Reflective Film Size	Current	Weight	Waterproof
	ITB-01	Flashing 60 times/M	White	-20°C-+70°C	495*55mm	Maximum 160mA 3.85V	≈10KG	IP65
	ITB-02				450*230mm		≈14KG	

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Post Beacons

Crown your warning posts with light. Minimalist design, enduring glow.

Features

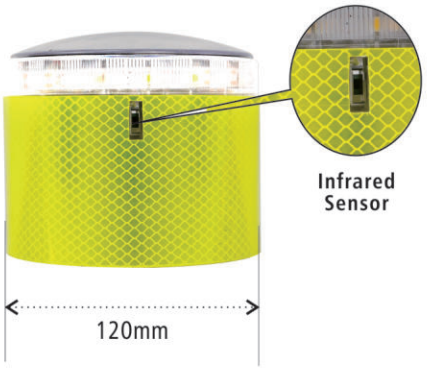
·**Solar Power Supply:**High-efficiency solar panels store electricity during the day and automatically light up at night,energy saving

·**Durable Material:**PC material, water-resistant and rust-proof, can work stably in extreme weather conditions ranging from -20°C to 70°C

·**Intelligent Photocell:**Light sensor. Work from dusk to dawn

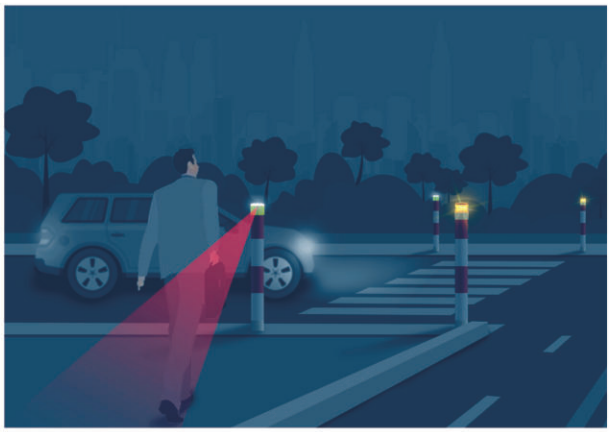
·**Multiple Size Options:**Designed specifically for 70mm/80mm/100mm/120mm warning posts

AB-SU1116-IR

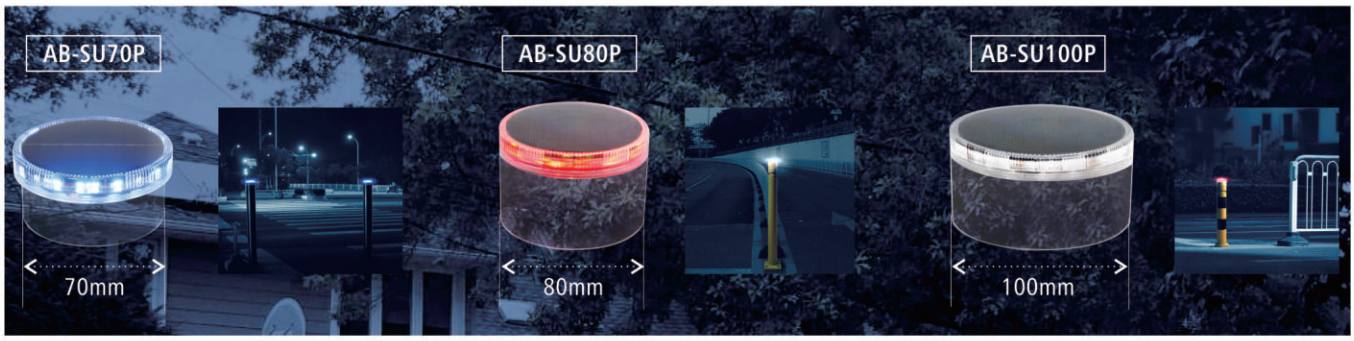


Sensor Version

It features an added detection function that identifies pedestrians and activates a strobe warning to prompt drivers to slow down and yield.



Item Code	Material	Size	Weight	Function	LED Color	Battery	Solar Panel	Working Time
AB-SU70P	PC	70*39mm	95g	Flashing	White (or others)	1.2V 600mAh	3V 90mA	≈90H
AB-SU80P		80*57mm	114g				3V 100mA	≈100H
AB-SU100P		100*58mm	155g				3V 150mA	≈100H
AB-SU1116-2		120*160mm	433g			3.7V 2000mAh	5V 170mA	≈80H
AB-SU1116-IR		126*113mm	333g	Flashing+Activated			5V 190mA	≈60H



AB-SU1116-2



Features

·**For warning posts up to 115mm in diameter**

·**Larger optical lens for enhanced safety**

·**Large reflective film to improve nighttime visibility**

·**Dual-color red and blue LEDs available for customization**



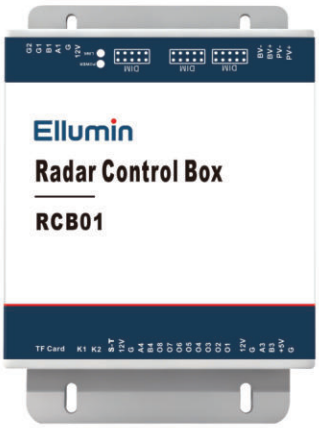
+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Radar Control Box

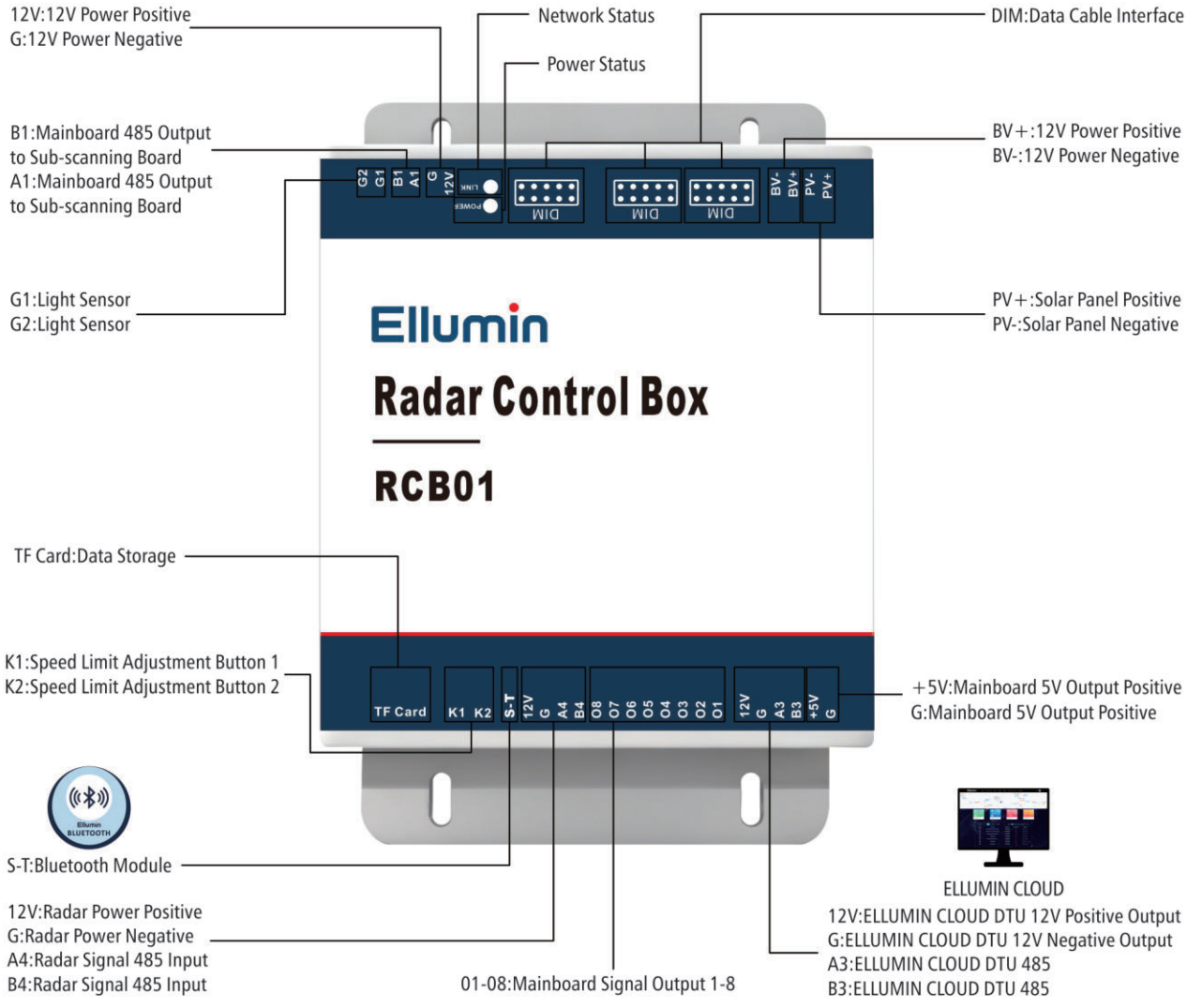
Supports all Ellumin Speed Radar Signs.

Features

- ·Low power consumption
- ·Simple and user-friendly to operate
- ·Compatible with Ellumin Bluetooth APP
- ·Works with Ellumin Cloud Warning System
- ·Various interfaces for additional funtions

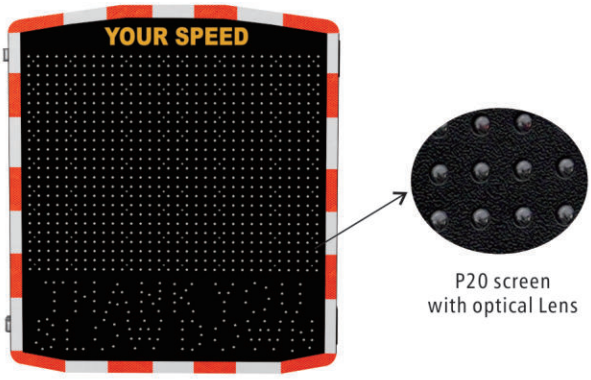


Item Code	Size
RCB01	17*12*3.5cm
Power Supply	**Power Consumption**
DC 12v	40mA



Speed Radar Sign European Type

Enhance road safety with our Speed Radar Sign!



- Durable cabinet with black paint offers anti-oxidation, weatherproof protection, and a longer service life.
- Tests repeatedly show that driver compliance with the speed radar results in 30-60% average speed reductions.
- When alerted, speeders slow down up to 80% of the time.
- The bright, dynamic digital display and emoji face easily attract attention for effective warning.collection, and cloud compatibility.

23kgs | Bluetooth | 2-digit LED Display | IP65 | APP

Cloud (4G optional) | Analysis Software | Brightness Regulation | Data Collection | Multi-target Radar



Safe Speed



Over Speed

Item Code	Material	Display Mode	Frame Size	Operating Temperatures F(C)	Speed Units	Working Voltage	Standby Power Consumption	Protection Level	Visible Distance
SID-005 Pro	Galvanized iron/ Aluminum (optional)	2-digit LED display (1-99km/h)	(W)704.7mm (H)800mm (T)120mm	-20°C to +80°C	km/h	DC12V	1.2W;Max Power Consumption:11W	IP65	Around 800 meters

SOLAR OPTIONS		ITEM CODE
	40W+24Ah	SS-01
	60W+36Ah	SS-02
	80W+48Ah	SS-03

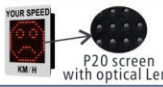
ELLUMIN CLOUD		ITEM CODE
	4G Online Control Platform	ECP-01

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Speed Radar Sign European Type

Real-time speed display for safer driving everywhere.



European Standard					
Product Display	 P20 screen with optical Lens				
Item Code	SID-020	SID-020 EU	SID-010 EU	SID-005 EU	SID-001-M EU
Frame Size	(W)418mm (H)560mm (T)155mm	(W)418mm (H)560mm (T)155mm	(W)509.2mm (H)612.2mm (T)160mm	(W)700mm (H)900mm (T)120mm	(W)720mm (H)720mm (T)120mm
Material	Galvanized iron/Aluminum(optional)		PC Shell + Galvanized Iron/Aluminum(optional)		Galvanized Iron/Aluminum(optional)
Weight	21kgs			23kgs	12.7/18.6kgs
Led Color	Red,Green		Red,Green,Yellow		Red,Green,White
LED Size	16x32cm P20		Φ5mm		16x32cm P20
Speed Units	km/h / mph				
Visible Distance	Around 800 meters				
Standby Power Consumption	1.2W;Max Power Consumption:11W				1.2W;Max Power Consumption:12W
Waterproof Level	IP65				
Pickup Distance	Around 150m				
Radar Type	Doppler Radar(24.150GHz±25MHz)				
Response Time	⩽20ms				
Power Supply (Cable Type /Solar Type	AC 110-240V				AC 110-240V/DC 12V
Battery (Solar Type)	12V 36Ah			12V 24Ah	12V 36Ah
Communications	GSM/GPRS(optional)				

SOLAR OPTIONS		ITEM CODE
	40W+24Ah	SS-01
	60W+36Ah	SS-02
	80W+48Ah	SS-03

ELLUMIN CLOUD		ITEM CODE
	4G Online Control Platform	ECP-01

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Speed Radar Sign America MUTCD Standard

MUTCD lens delivers superior, compliant speed safety.



American MUTCD Standard						
Product Display			 P20 screen with optical Lens	 P20 screen with optical Lens		 P20 screen with optical Lens
Item Code	SID-007-2D11 US	SID-001-2D12 US	SID-007-VMS-2D15 US	SID-001-M-2D15 US	SID-009-2D18 US	SID-009-M-2D15 US
Frame Size	29" (H) 23" (W) 4.5" (D)	28" (H) 28" (W) 4.5" (D)	42.5" (H) 31" (W) 5" (D)	28" (H) 28" (W) 5" (D)	41" (H) 33" (W) 5" (D)	42.5" (H) 31" (W) 5" (D)
Digits	11"(h) x 5.6"(w) 98 LEDs per digit	12"(h) x 6.4"(w) 112 LEDs per digit	15"(h) x 8"(w) 112 LEDs per digit	15"(h) x 8"(w) 744 LEDS	18"(h) x 10"(w) 112 LEDs per digit	18"(h) x 10"(w) 768 LEDS
Text	Letters 6.0" (h) spell "YOUR SPEED" fixed message,2 lines	Letters 4.0" (h) spell "YOUR SPEED" fixed message, 1 line	12.5"(h)x24"(W) 512 LEDS1 graphic or 2 lines of 6.0" (h) text	Letters 4.0" (h) spell "YOUR SPEED" fixed message, 1 line	Letters 6.0" (h) spell "YOUR SPEED" fixed message, 1 line	12.5"(h)x 24"(w) 512 LEDS1 graphic or 2 lines of 6.0" (h) text
Material	Galvanized iron/aluminum(optional)		Galvanized iron/0.08"aluminum(optional)			
Weight	26/39lbs	28/41lbs	26/39lbs	28/41lbs	36/55lbs	
Led Color	Yellow,White		Red,Yellow	Red,Green,White	Red,Yellow,White	Red,Green,White
LED Size	Φ 5mm,208pcs	Φ 5mm,252pcs	16*32cm P20		Φ 5mm,548pcs	16*32cm P20
Speed Units	km/h / mph					
Visible Distance	Around 2624 feet					
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 /Solar Type)	AC 110-240V/DC 12V					
Battery (Solar Type)	12V 24Ah		12V 36Ah Li Battery			/
Communications	GSM/GPRS(optional)					

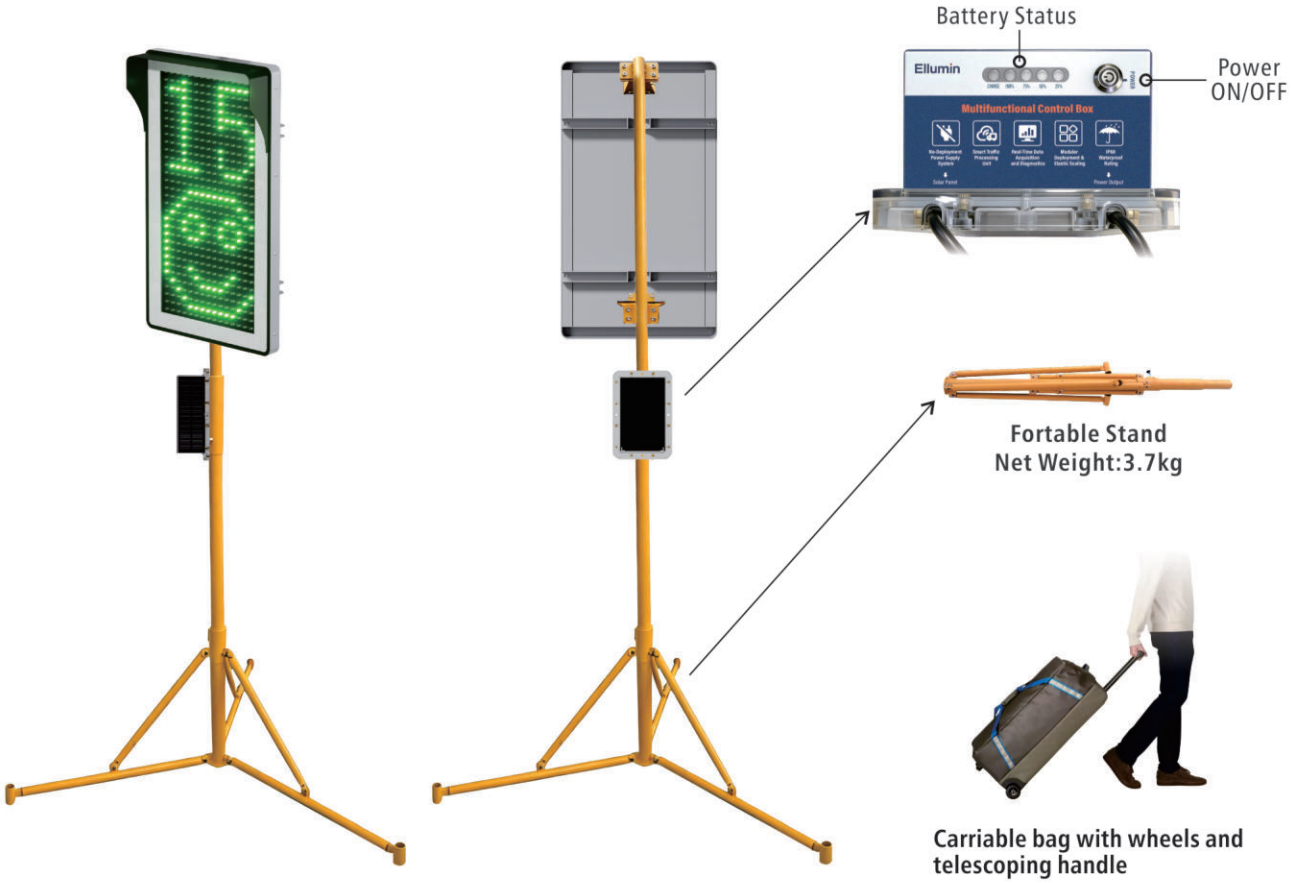
SOLAR OPTIONS		ITEM CODE
	40W+24Ah	SS-01
	60W+36Ah	SS-02
	80W+48Ah	SS-03

ELLUMIN CLOUD		ITEM CODE
	4G Online Control Platform	ECP-01

+86-576-80230333
sales@ellumin.com
www.ellumin.com

E-LITE Portable Speed Indicator Device

Lightweight, solar, portable radar for instant road safety.



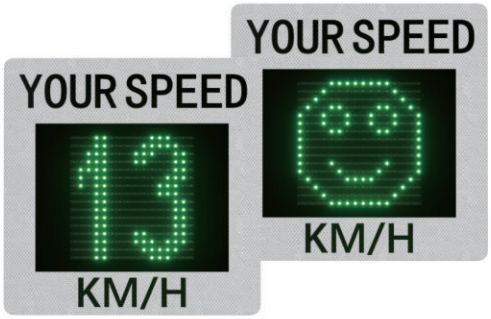
Item Code	Product	Material	Digits	Pixel Resolution	Frame Size	Display Size	Pixel Pitch	Neasurement Range	Led Quantity
SID-020-16X16	E-LITE Radar	ASA(plastic)	2-digit LED display (1-99km/h)	16*16	(W)400mm *(H)400mm	(W)310mm *(H)310mm	P20 (E-LITE style)	9-99kph/mph	256 pcs
SID-020-16X32	E-LITE Radar	ASA(plastic)	2-digit LED display (1-99km/h)	16*32	(W)400mm *(H)730mm	(W)310mm *(H)630mm	P20 (E-LITE style)	9-99kph/mph	512 pcs

Item Name	Picture	Item Code	Specification	Item Name	Picture	Item Code	Specification
Foldable Tripod		TP-02	Folded Size: 14(H)*125(L)cm Expanded Size: 142(Φ)*125(H)cm	Rechargeable Battery		BX-3	12V 23Ah LiFePO4 Battery
4G Online Control Platform		ECP-01	Emergency Notify	Carry Bag		MTL-CB01	With Wheels & Handle

+86-576-80230333
sales@ellumin.com
www.ellumin.com

E-LITE Portable Speed Indicator Device

Lightweight, solar, portable radar for instant road safety.



SID-020 P20

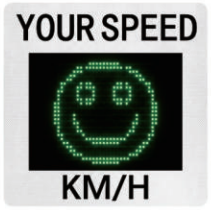
Item Code	Product	Material	Display Mode	Frame Size
SID-020 P20	European Standard	ASA(Plastic)	2-digit LED display (1-99km/h)	(W)620mm *(H)620mm
Weight	**Speed Units**	**Operating Temperatures**	**Working Voltage**	**Waterproof Level**
5.2kgs	km/h	-20°C to+80°C	DC12V	IP65



With Foldable Tripod



SID-020 P20



P10RG-SMD Radar Series



E-LITE Radar SID-020 64*64



With Portable Traffic Trolley

-Portable Message Signs High-Capacity Storage

Locally store up to 100 images and create 20 in dependent playlists for complex looping needs.

-Bluetooth Wireless Control

Wireless Bluetooth connection and control via Android phone for operation.

-On-the-Fly Flexibility

Instantly switch displayed images or playlists by leveraging stored content and wireless control to handle unexpected changes.

-Speed Radar Sign

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.

Item Name	Picture	Item Code	Specification	Item Name	Picture	Item Code	Specification
Portable Traffic Trolley		PTT-S/M	500*390*300mm 600*500*300mm	E-LITE PMS		E-LITE PMS-32*32	32*32cm
						E-LITE PMS-32*64	32*64cm
						E-LITE PMS-64*64	64*64cm
Lead-Acid Battery		LA-3	12V40Ah	Embedded Solar Panel		ESP-64*64	40W
Foldable Tripod		TP-02	Folded Size: 14(H)*125(L)cm Expanded Size: 142(Φ)*125(H)cm	4G Online Control Platform		ECP-01	Emergency Notify

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Tunnel Collision Warning System

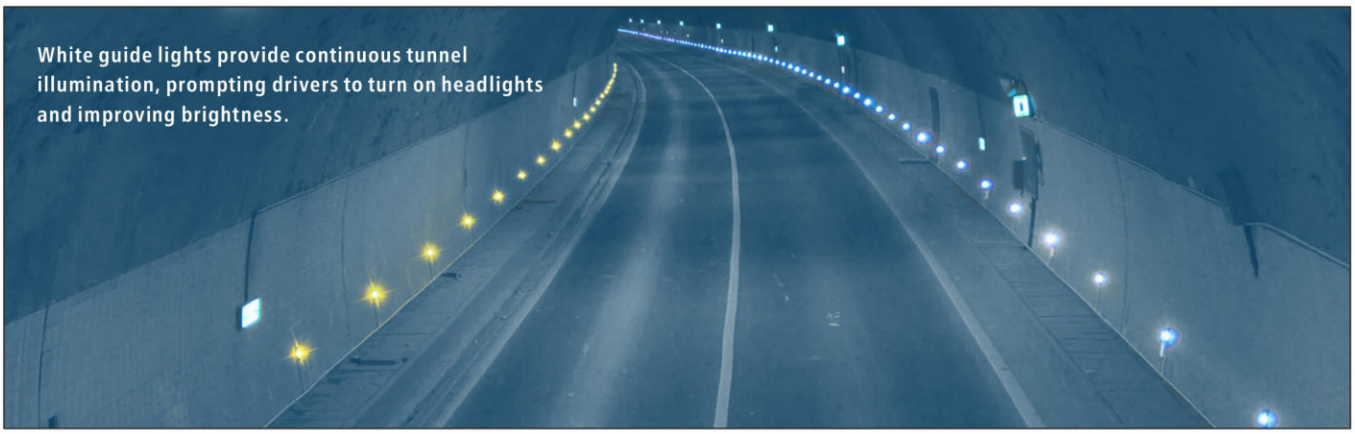
The solution for reduce the accident in the tunnel.



Precise detection, real-time activation Sound and light stereo warning, strong warning effect

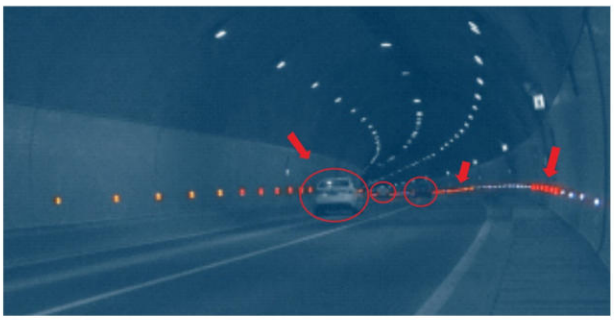
1.Always lighting for guaiding
2.Led changes to Red when vehicles passed by
3.Signal to led display board

Item Code	Product	Led Qty	Power Supply
TCWS-002 TCWS-003	Tunnel Warning Light	12pcs	DC 24V
Shooting Distance	**Visible Distance**	**Installation Distance**	**Communication Method**
<15m	>200m	≥5M	Rs485





Assist In Locating Tunnel Entrance Vehicles



Assist In Locating Vehicles In Tunnels

Track Guiding Version(Standard Type)		Occupying the Road Alarm Version(Upgrade Type)	
Constant yellow/white LED lighting to enhance tunnel edge conspicuity.	Real-time red light trajectory, helps rear vehicles gauge distance and maintain safe distance.	·Stop over 15s, triggers Level1 alarm. ·Lights turn red; external LED displays warning to alert Abnormal condition ahead.	·Stop for over 30s, triggers Level 2 alarm. ·Tunnel lights stay red , LED displays warning with voice. ·Alert vehicles to abnormalities existing in the tunnel.
			

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Tunnel Collision Warning System

Monitoring Device

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





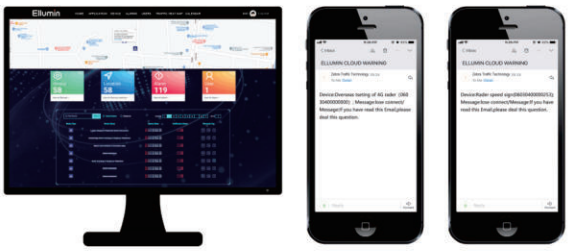
Date Reporting

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



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.



Other Working Mode

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



Foggy Area Flash Mode



Gateway AreaConstant Lighting Mode



Anti-collision Warning Mode



Tunnel Outline Enhancement Constant Lighting Mode



Tunnel Active Induction Flashing Mode



Accident/Construction Flash Mode

TUNNEL COLLISION WARNING LIGHT	ITEM CODE
	TCWS-002 TCWS-003
PRO LED SIGN	
	LPVMS-P20-64*64
	LPVMS-P20-128*32

ELLUMIN CLOUD		ITEM CODE
	4G Online Control Platform	ECP-01
ELLUMIN RADAR DETECTOR		
		ERD-01L
MULTI FUNCTIONAL CONTROL MODULE		
		EPS01B

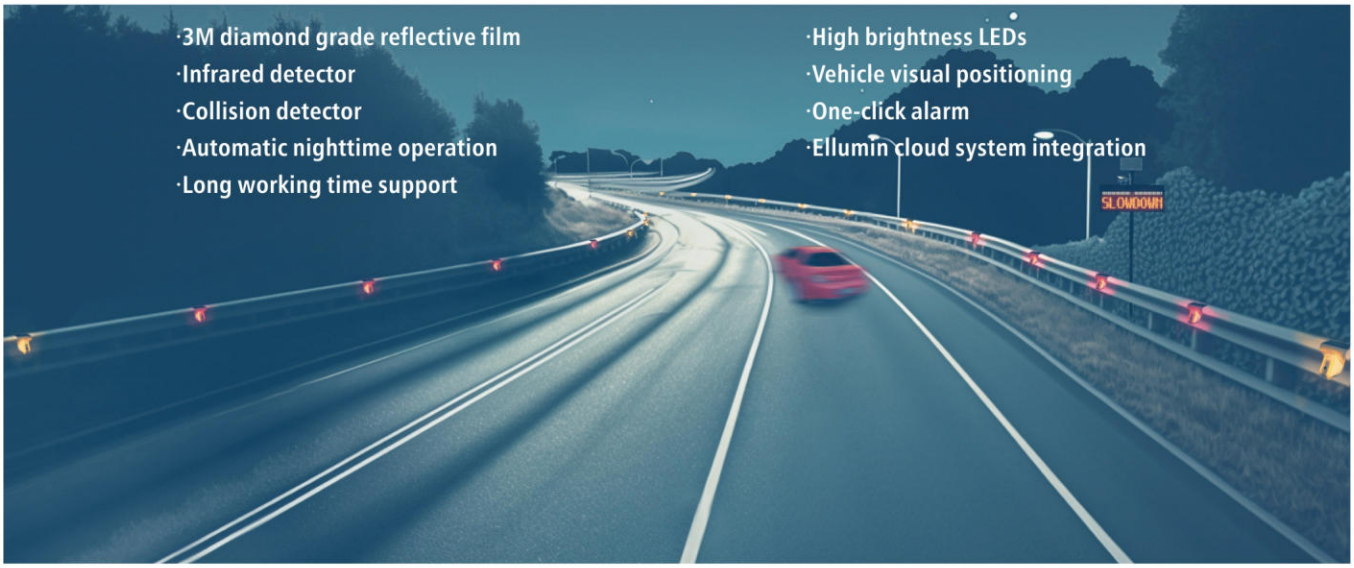
Ellumin
4G Online Control Platform

-Monitoring device
-Online control device
-Programmable control
-Data reporting
-Emergency notification



Guardrail Anti-collision Warning System-Highway Guardrail

Support for intelligent traffic on highway guardrails.



INTELLIGENT GUARDRAIL LIGHT	ITEM CODE
	SGL-003-IR
VARIABLE MESSAGE SIGN	
	SL-128*32

SOLAR OPTIONS		ITEM CODE
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

MULTI FUNCTIONAL CONTROL MODULE	ITEM CODE
	EPS01B

Guardrail Anti-collision Warning System-Bridge Guardrail

Support for intelligent traffic on bridge guardrails.



INTELLIGENT GUARDRAIL LIGHT	ITEM CODE
	SWL-D006-IR
	SWL-2D006-IR
VARIABLE MESSAGE SIGN	
	SL-128*32

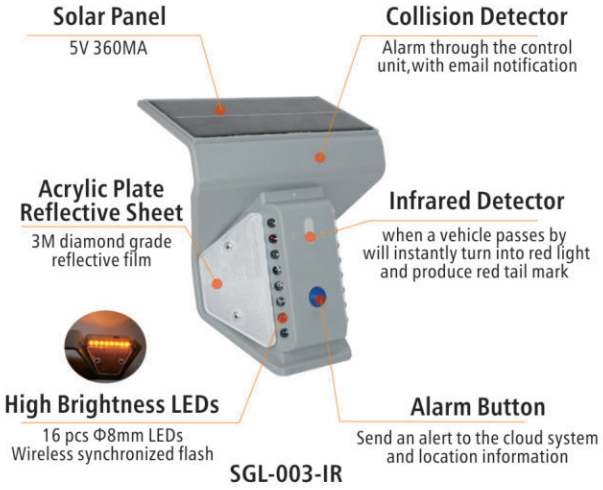
SOLAR OPTIONS		ITEM CODE
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

MULTI FUNCTIONAL CONTROL MODULE	ITEM CODE
	EPS01B

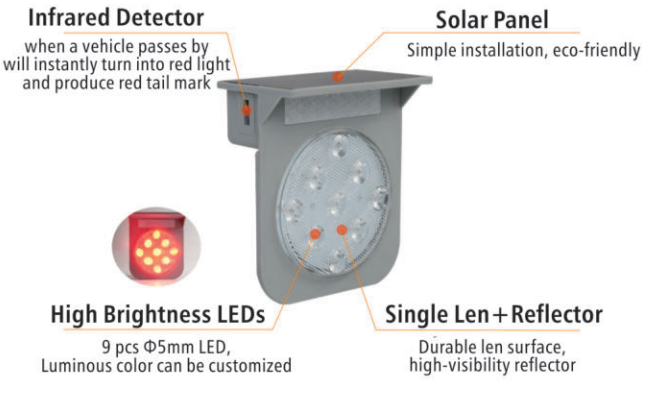
+86-576-80230333
sales@ellumin.com
www.ellumin.com

Intelligent Guardrail Light

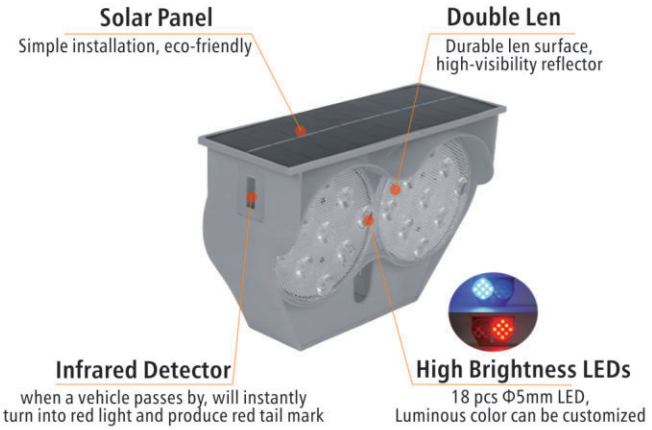
The guardrial light with the detector and the wireless system.



SGL-003-IR



SWL-D006-IR



SWL-2D006-IR

INTELLIGENT GUARDRAIL LIGHT		ITEM CODE
	Flashing+8 LEDs	SGL-001
	Synchronized/Seqential Flashing+8 LEDs	SGL-001-WIFI
	Flashing+8 LEDs+Luminous Powde	SGL-002
	Synchronized/Seqential Flashing+8 LEDs +Luminous Powde	SGL-002-WIFI
	Vehicle Visual Positioning+Alarm Button +Infrared Detector+16 LEDs	SGL-003-IR
	Flashing+9 LEDs+Single Len	SWL-D006
	Synchronized/Seqential Flashing +9 LEDs+Single Len	SWL-D006-WIFI
	Flashing+18 LEDs+Double Len	SWL-2D006
	Synchronized/Seqential Flashing +18 LEDs+Double Len	SWL-2D006-WIFI
	Vehicle Visual Positioning+Infrared Detector +9 LEDs+Single	SWL-D006-IR
	Vehicle Visual Positioning+Infrared Detector +18 LEDs+Double Len	SWL-2D006-IR



SGL Series Application for Highway Guardrails



SWL Series Application for Bridge Guardrails

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Wrong Way Detection Warning System

Bright, anti-glare sign detects and warns wrong-way drivers.



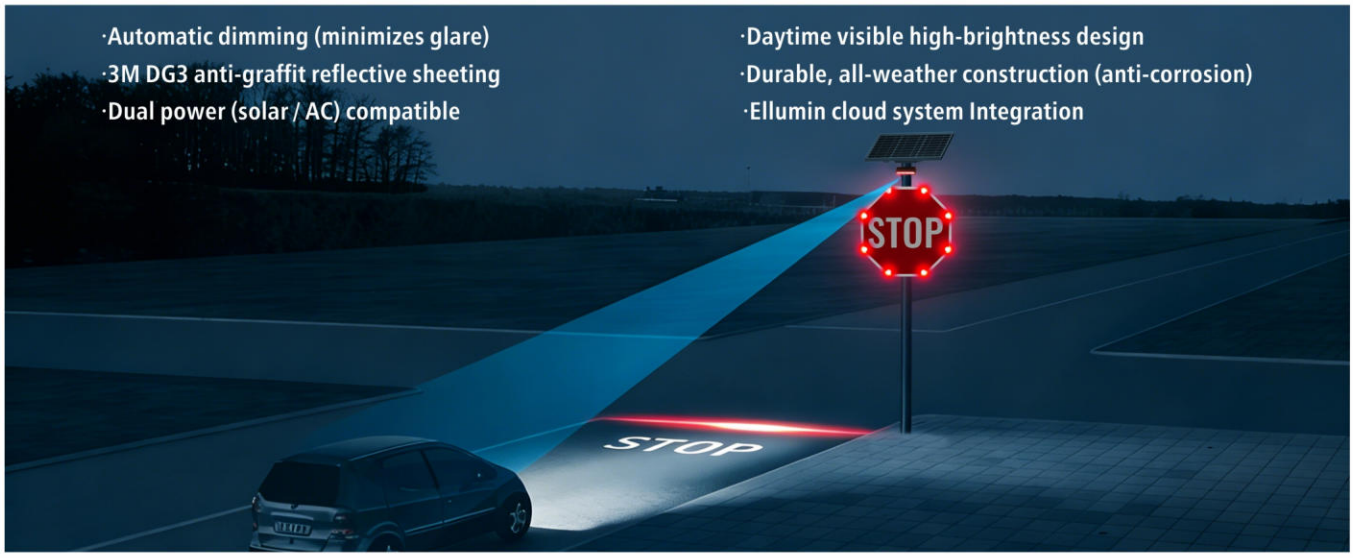
PRO LED SIGN	ITEM CODE
	LELS-SU-R5-1A-12"*24"
	Letter Lit Sign R5-1A
	PLS-R18x30-E
ELLUMIN RADAR DETECTOR	
	ERD-01L

SOLAR OPTIONS		ITEM CODE
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

MULTI FUNCTIONAL CONTROL MODULE	ITEM CODE
	EPS01B

Stop Flashing LED Warning System

Flashing sign and light bar force drivers to stop.



PRO LED SIGN	ITEM CODE
	R1-1 (Stop)
ELLUMIN RADAR DETECTOR	
	ERD-01L
STOP BAR LIGHT	
	SBL-001

SOLAR OPTIONS		ITEM CODE
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

MULTI FUNCTIONAL CONTROL MODULE	ITEM CODE
	EPS01B

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Vehicle Over Height Warning System

·Wireless, solar-powered system stops over-height vehicles safely.

• Solar-powered system stops over-height vehicles safely.



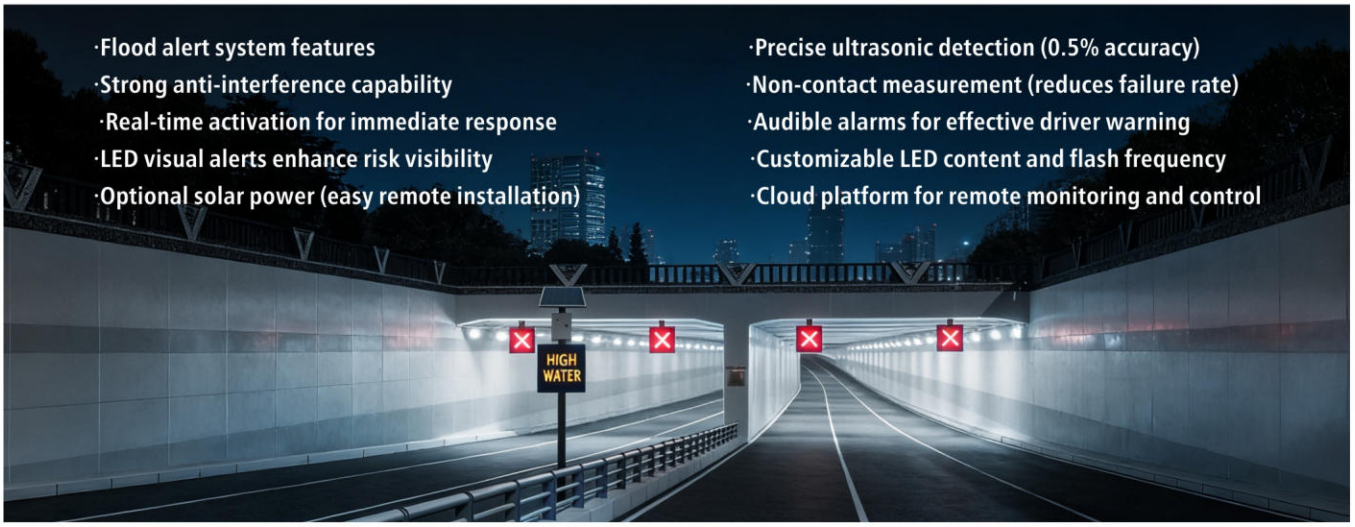
BLANK OUT SIGN	ITEM CODE
	BOS-OHVS-80
LASER SENSOR	
	EID-001

SOLAR OPTIONS		ITEM CODE
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

MULTI FUNCTIONAL CONTROL MODULE	ITEM CODE
	EPS01B

High Water Level Warning System

Precise, real-time ultrasonic monitoring for effective flood warnings.



BLANK OUT SIGN	ITEM CODE
	BOS-HW-60
WATER LEVEL SENSOR	
	WLS-001

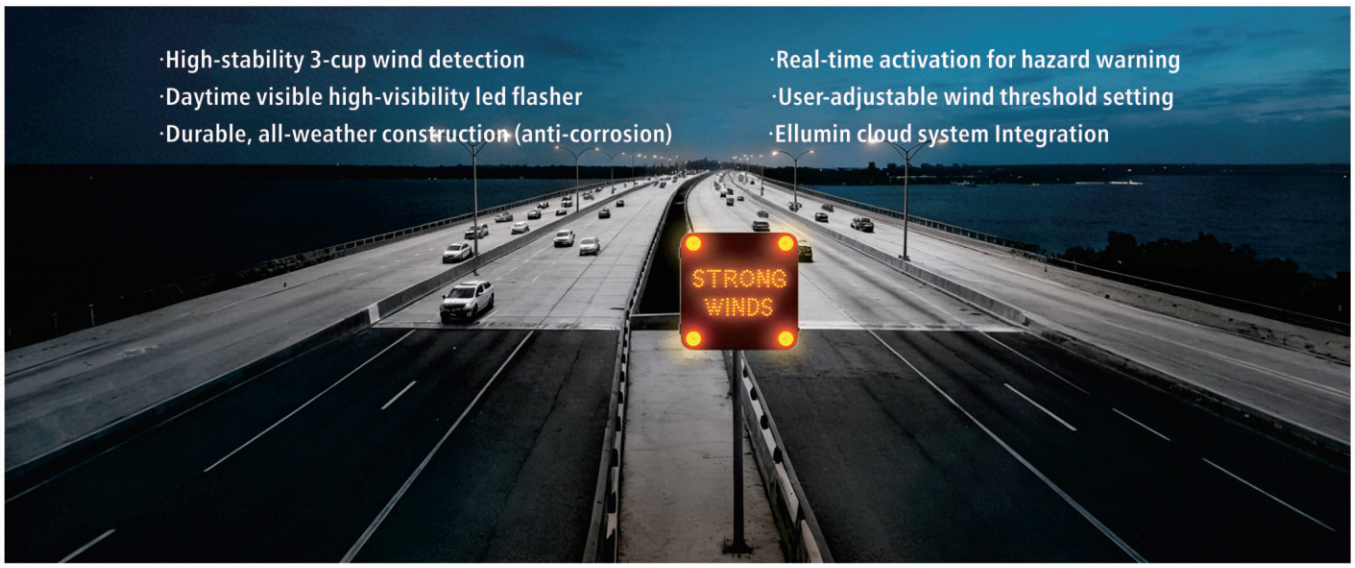
SOLAR OPTIONS		ITEM CODE
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

MULTI FUNCTIONAL CONTROL MODULE	ITEM CODE
	EPS01B

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Crosswinds Warning System

Smart sign warns drivers of strong winds in real time.



SIGN	ITEM CODE
	EL-L2-WIND
THREE-CUP ANEMOMETER SENSOR	
	CA-100

SOLAR OPTIONS		ITEM CODE
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

MULTI FUNCTIONAL CONTROL MODULE	ITEM CODE
	EPS01B

Vehicle Actived Curve Warning System

Real-time, MUTCD-compliant curve warnings for safer driving.

·MUTCD compliant (section 2A.07 & 2A.08)
·Automatic dimming (minimizes glare)
·Durable double-layer aluminum-plastic panel (wind resistant)
·Adjustable flash frequency (simultaneous/sequential flash)
·Daytime visible high-brightness design
·3M DG3 anti-graffiti reflective sheeting
·Flash mode adjusted via back switch



Sequential Flash



Simultaneous Flash

PRO LED SIGN	ITEM CODE
	PLS-W1-8-24x30INCH-WIFI
ELLUMIN RADAR DETECTOR	
	ERD-01L

SOLAR OPTIONS		ITEM CODE
	40W+23Ah	SU-2+BX-3
	60W+46Ah	SU-3+2*BX-3
ELLUMIN CLOUD		
	4G Online Control Platform	ECP-01

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Wireless Update & Maintenance Box

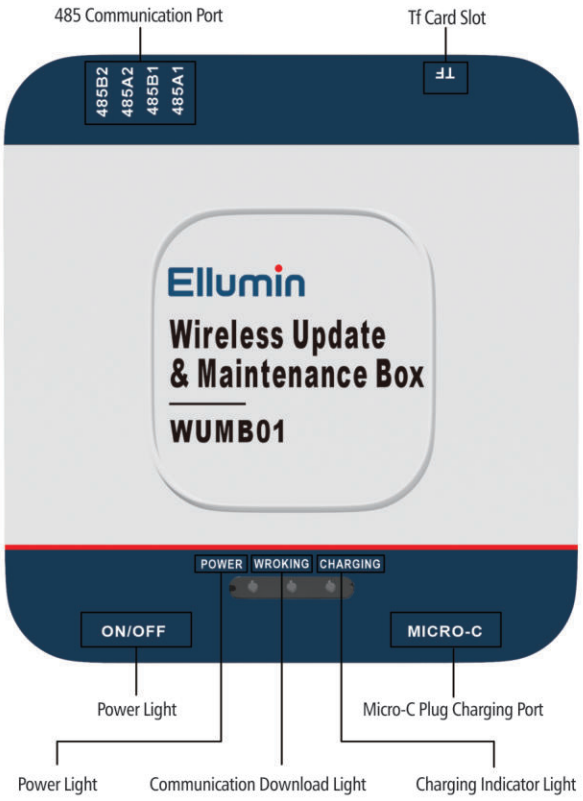
Easy update and repair for Ellumin devices.

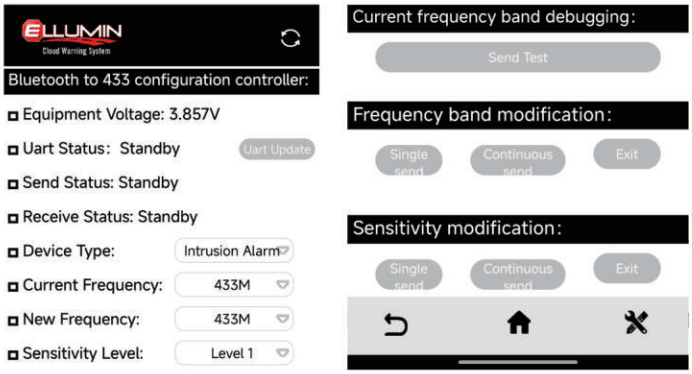
Features

- ·Works with devices without Bluetooth or wireless connectivity
- ·Program downloaded to TF card, no network required
- ·Upgrade and repair via mobile app
- ·Indicator lights show power, operating, and charging status



Item Code	Size
WUMB01	110*110*40mm
Power Supply	**Power Consumption**
3.7v	50mA





Ellumin Bluetooth APP Interface

After the device is connected via the box's port, connect box by Ellumin Bluetooth App.You can check device status, perform UART updates for upgrading or repair using file prepared on the TF card, also supports adjusting frequency and sensitivity.

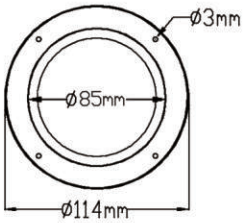
+86-576-80230333
sales@ellumin.com
www.ellumin.com

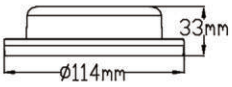
Warning Light - EN12352 Certificated Series

Robust, waterproof, high-visibility warning lights with solar options.

·Robust construction, waterproof IP64, can use in rainy
·It can also be used with activation system
·Outstanding visibility during the day and at night
·Possibility of using with multiple products

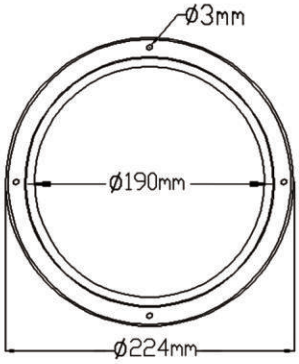


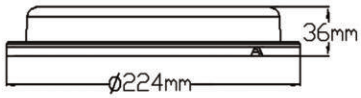




EL-L2

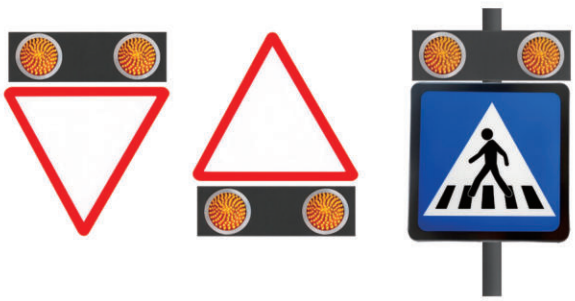




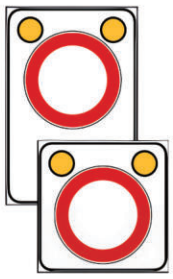


EL-L8

Item No	Product Size	Product Weight	LED Qty	Product Luminous Intensity
EL-L2	85x85x33mm	135g	60pcs	900CD
EL-L8	190x190x36mm	535g	120pcs	1900CD



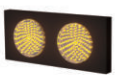
Pedestrian Crossing Flash



Alert & Warning Sign



Obstacle Marking Flash

EN 12352 FLASHING LAMPS		ITEM CODE
	Single Side (2 lamps)	EL-L2S
	Double-side (4 lamps)	EL-L2D
	Single Side (2 lamps)	EL-L8S
	Double-side (4 lamps)	EL-L8D

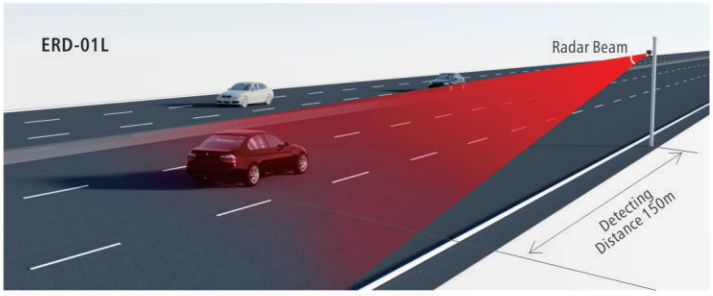
SOLAR OPTIONS	SPECIFICATIONS	ITEM CODE
	40W+24Ah	SS-01
	60W+36Ah	SS-02
RADAR DETECTOR	**PICK UP DISTANCE**	**ITEM CODE**
	250m	ERD-01L

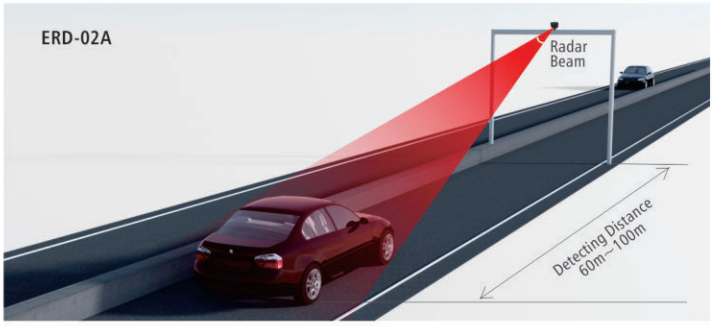
+86-576-80230333
sales@ellumin.com
www.ellumin.com

Radar Detector

Suggestion use for multiple-line road.







Specification			
Item Code	ERD-01L	Speed Measurement Error	±1km/h (speed s100km/h) ±2km/h (speed >100km/h)
Frequency Range	24.00~24.25GHz	Voltage	DC 9~36V
Modulation	FM	Current	≤150mA@12V
Detection Distance	Truck >150m,Car >100m	Output Power	≤20dBm
Support Interface	RS485,RS232	Antenna Angle	Azimuth 28°, Pitch 28°
Speed Range	0~250km/h	Sensor size	125mmx95mmx45mm

Wind Speed Sensor

Three-cup anemometer for professional weather monitoring.

- ·Multiple output types
- ·Wide voltage input
- ·Low power consumption
- ·Wireless communication ready



Specification			
Item Code	CA-001	Load Capacity	0ther<5000>2kΩ
Power Supply	DC 12-24V	Starting Wind Speed	0.4-0.8 m/s
Resolution	0.2 m/s	Weight	≤0.5kg
Measurement Range Options	•0-30 m/s •0-30 m/s •0-50 m/s •0-100 m/s •0-70 m/s	Wireless Communication Range	≤1000m
Output Types	•Pulse Type: NPN output, PNP output, NPN withinternal pull-up (4.7k0),RS485 communication •Voltage Output: 0-5VDC •Current Output: 4-20mA	Maximum Power Consumption	•Pulse Type: MAX ≤0.2W @ DC24V •Voltage Type: MAX≤0.3W @ DC24V •Current Type: MAX ≤0.7W @ DC24V

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Laser Detector

Long-range beam detection system.

·Detection range up to 100m
·IP67 protection
·Fast response 25ms
·Wide temperature range
·Class I safe laser source
·High reliability MTBF >120,000h





Specification			
Item Code	EID-001	Power Supply	DC 10-30V (wide voltage input)
Size	60mm (L)x 80mm (W) x 260.5mm(H)	Alarm Output	1 relay contact (NO/NC)
Weight	Transmitter 1.1kg, Receiver 1.0kg	Contact Capacity	AC125V/0.5A,DC24V/2A
Protection Rating	IP67	MTBF	>120,000 hours

Laser Specifications	
Laser Class	Classl (Safe)
Wavelength	650nm
Optical Axis Adjustment	±15° (Horizontal & Vertical)

Detection Performance	
Detection Distance	0~ 100m
Alarm Response Time	≥25ms (default)
Alarm Duration	<100ms
Alarm Method	Beam interruption alarm

Ultrasonic Level Meter

Non-contact liquid level detection solution.

·Compact design with LED display
·Multiple output options
·High accuracy ±0.5%
·Non-contact detection
·Wide measuring range
·Easy installation



Specification			
Item Code	WSL-001	Response Time	≤2s
Detection Method	Ultrasonic	Output Signal	4-20mA (two-wire) RS485 (Modbus protocol)
Measuring Range	0.3m~15m	Power Supply	DC 24V (4-20mA output) DC12-24V (RS485 output)
Blind Zone	0.3m	Power Consumption	≤1W
Accuracy	±0.5% (Full Scale)	Display	4-digit LED display
Resolution	1mm	Protection Rating	IP65

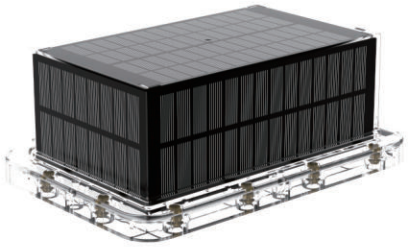
Ellumin Smart Solar Power Station & Control Box

IP68 power station avaiable for multiple battery package & control pcb size.

Features

- ·Portable and easy to deploy
- ·IP68-rated for harsh outdoor environments
- ·Supports multiple sensor integrations
- ·Real-time 4G data transmission
- ·Multiple battery capacity options
- ·Battery level monitoring
- ·Compatible with various Ellumin devices





Appplications

- ·Road safety and traffic control
- ·Smart city monitoring devices
- ·Construction and infrastructure sites
- ·Remote or off-grid locations





Specification	BX-MINI	BX-PRO
Size	138*69*32mm	241*164*93mm
Material	PC	PC
Waterproof	Ip68	Ip68
Weight	214.2g	2340g
Battery	3.7V/600mA Lithium battery	12V 12Ah/15Ah/23Ah lithium battery
Power Supply	Solar power	Solar power
Solar Panel Size	107.43*48.50mm	198*118mm
Operating Temperature Range	-20°C~60°C	-20°C~60°C
Real-time Monitoring Function	NO	YES
Battery Level Indicator	NO	YES
Positioning Module	GPS module, automatically locates after powering on	GPS module, automatically locates after powering on

MULTI FUNCTIONAL CONTROL BOX	ITEM CODE
600mA Lithium Battery	BX-MINI
12Ah Lithium Battery	BX-PRO-1
15Ah Lithium Battery	BX-PRO-2
23Ah Lithium Battery	BX-PRO-3
Ellumin 4G Online Control Platform	ECP-01



BX-MINI



BX-PRO

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Ellumin Solar Power Battery-Solar Panel+Bracket

Expandable, High-power, Intelligent-compatible.

Features

·IP68-rated, weatherproof battery box
·Easy installation with solar panel and bracket
·No complex power setup required
·Multiple battery capacities available

Applications

·LED traffic sign, speed radar sign
·Smart city monitoring devices
·Construction and temporary sites







SOLAR PANEL+BRACKET	ITEM CODE
One 20W Solar Panel+One 12Ah $LiFePO_4$ Battery	SU-1+BX-1
One 40W Solar Panel+One 15Ah $LiFePO_4$ Battery	SU-2+BX-2
One 60W Solar Panel+ Two 23Ah $LiFePo_4$,Battery	SU-3+2*BX-3

Ellumin Solar Power Battery-Electrical Box+Independent Battery

More power and module customization support.

Features

·Supports larger $LiFePO_4$/lead-acid batteries
·Powers high-power devices & Ellumin systems
·Enables expanded power and control module options

Applications

·Ellumin warning systems and other intelligent systems
·High-power control devices
·For suburban or off-grid sites



Electrical Box



$LiFePO_4$ battery



Lead-acid Battery

ELECTRICAL BOX+INDEPENDENT BATTERY	ITEM CODE
Non-Top-Mounted Electrical Box +Solar Controller + Circuit Breaker + Cables	EB-1
Top-Mounted Electrical Box Not Top-Mounted+Solar Controller + Circuit Breaker + Cables	EB-2
12v 12ah $LiFePO_4$ Battery	LFP-1
12v 15ah $LiFePO_4$ Battery	LFP-2
12v 24ah $LiFePO_4$ Battery	LFP-2
12v 36ah $LiFePO_4$ Battery	LFP-2
12v 12ah Lead-acid Battery	LA-1
12v 24ah Lead-acid Battery	LA-2
12v 40ah Lead-acid Battery	LA-3

+86-576-80230333
sales@ellumin.com
www.ellumin.com

Pedestrian Sensor

Pedestrian device activates smart, interactive solar safety crosswalks.

·Outdoor IP protection rating
·Durable metal housing
·Non-contact optical detection
·Wide operating temperature range





Specification			
Item Code	PS-001	Range	12m
Dimensions	242x237x143 mm (brackets not included)	Power Supply	12 V
Material	Aluminum	Average Power Consumption	>1.5 W
Weight	0.9kg	Light Signaling	Green ON (Power supply); Red ON (Detection); Red/Green Flashing (Auto diagnostics)
Insulation Class	Class III	Activation System	Infrared

Push Button

Activate warning for crosswalk safety.

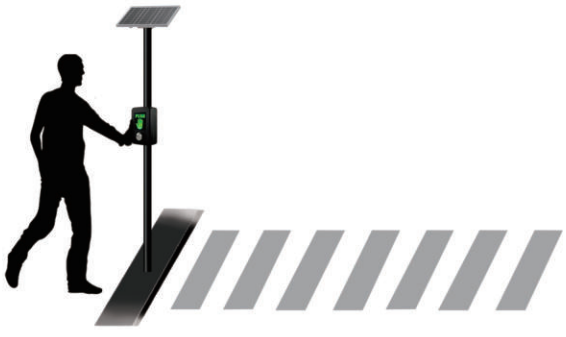
·Activate warning for crosswalk safety
·Durable aluminum, seamless pole fit
·IP65 high weatherproof protection
·Intuitive light feedback and PUSH button



LED Push Button
PB-002



Wireless Push Button
PB-003



Item Code	Material	Size	Weight	Color	Switch Type	Operating Temperature	Protection Level
PB-002	Aluminum	150*220*80.5mm	1900g	Black	Magnetic Switch	-20°C to +80°C	IP65
PB-003		92*55.5mm	1000g				

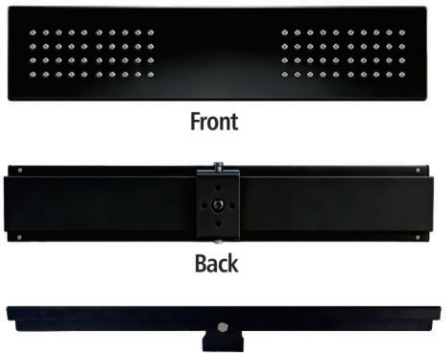
+86-576-80230333
sales@ellumin.com
www.ellumin.com

RRFB(Rectangular Rapid Flashing Beacon)

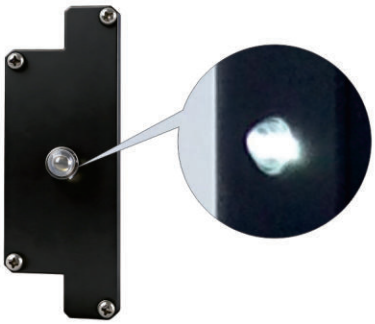
RRFB improves crosswalk safety and driver yielding rates.

Once the pre-warning system starts, the RRFB light bars toward to drivers flash for warning drivers there ahead pedestrians will cross the crosswalk, please slow down and give way.

- ·Warns drivers of crossing pedestrians
- ·Highly visible day and night
- ·Meets MUTCD IA-21 standard
- ·Automatically dims to reduce glare



Top
(with adjustable fastener)



Side
(with pedestrian Indicator light)



Item Code	Material	Size	Weight	Color	LED Qty	Frequency	Operating Temperature	Protection Level
RRFB	Aluminum	604*120*42.4mm	1750g	Black	2 arrays of 40 LEDs	75 times per min	-20°C to +80°C	IP55

Stop Bar Light

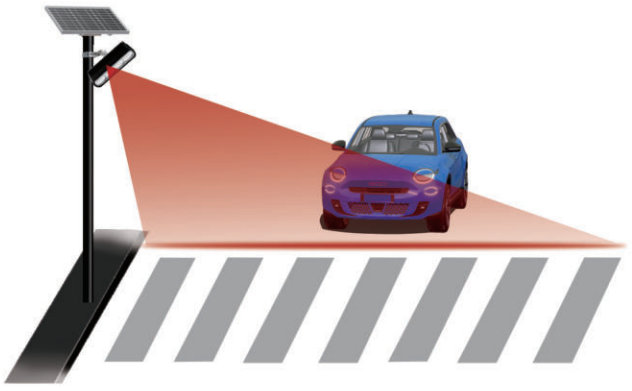
Stop bar light warns drivers; covers up to 4 meters.

Once the pre-warning system starts, the stop bar light glows for warning drivers there ahead pedestrians will cross the crosswalk, please slow down and give way.

- ·Improves crosswalk safety/yielding
- ·Ultra-focusing light
- ·High-brightness
- ·Wide voltage







Item Code	Material	Size	Voltage	Color	LED Qty	Power	Operating Temperature	Protection Level
SBL-001	Aluminum	198*48*69mm	12V	Red/Yellow/ white	12	36W	-20°C to +80°C	IP55

+86-576-80230333
sales@ellumin.com
www.ellumin.com

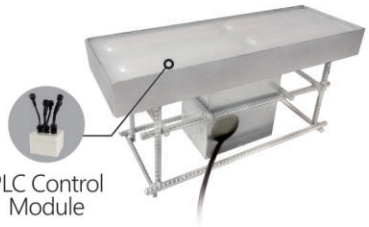
Power Line Communication Control Module

Supports for Ellumin led brick / road stud.

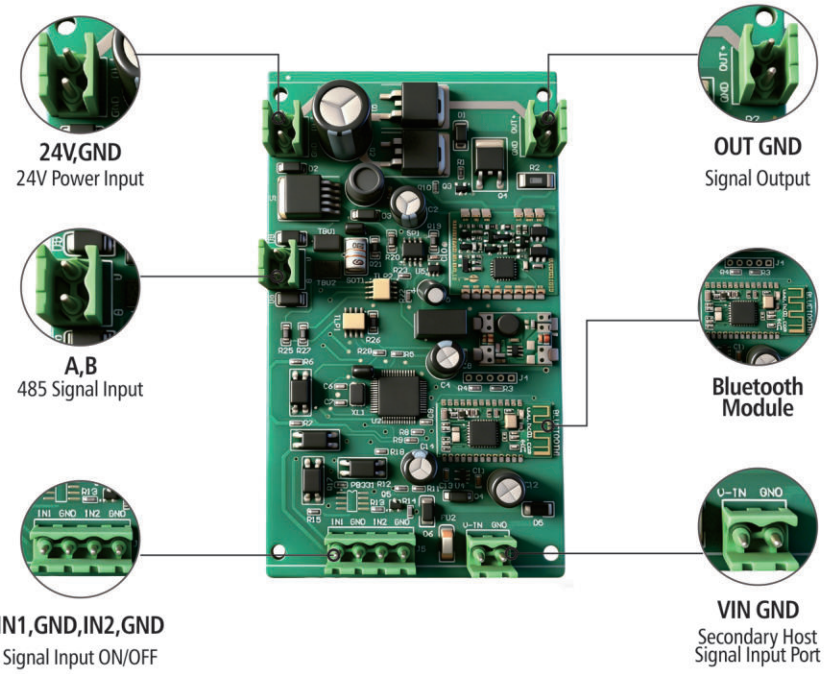
·Easy for installation-work for cable led brick / road stud
·Multiple function programming-brightness / flash pattern
·Low power consumption
·Bluetooth control APP



LED BRICK



PLC Control Module



433MHz Road Stud Controlled Wireless Module

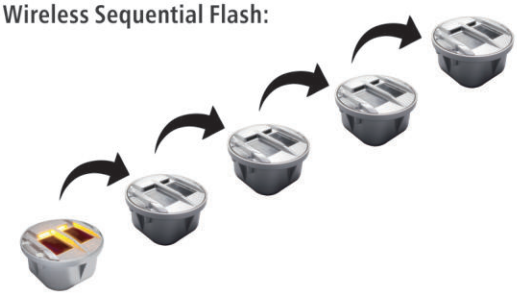
Supports for Ellumin road stud.

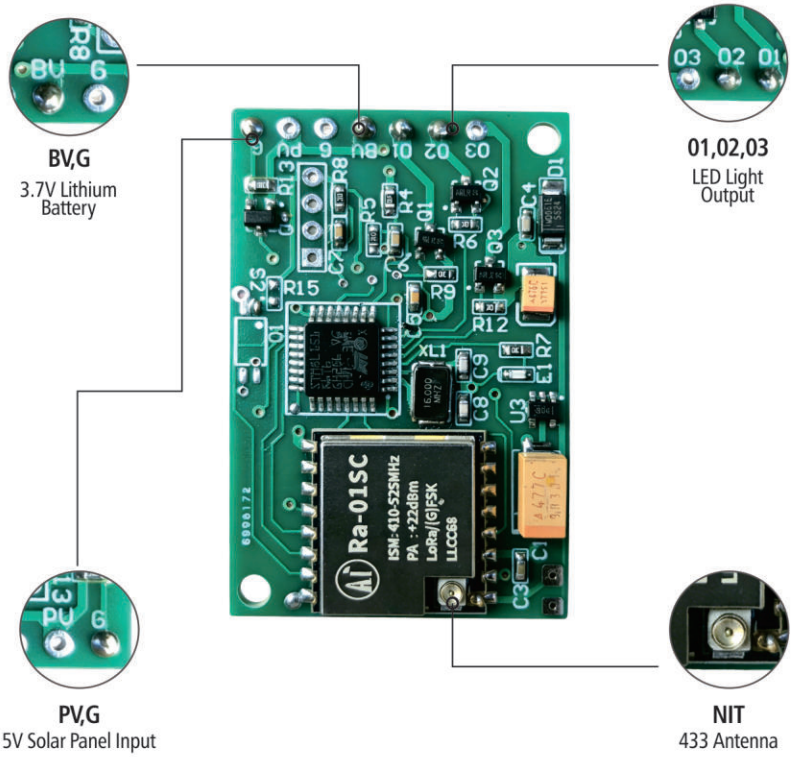
·Easy for installation-work for road stud
·Low power consumption
·Enables road studs to flash synchronously or sequentially
·Brightness can be tuned to suit different visibility conditions

Wireless Synchronized Flash:



Wireless Sequential Flash:





+86-576-80230333
sales@ellumin.com
www.ellumin.com

Note

+86-576-80230333
sales@ellumin.com
www.ellumin.com

MAKE EVERY WARNING SIGNAL VALUABLE



+86 576 8023 0333

Info@ellumin.com

www.ellumin.com

Hangzhou Headquarter Base:
Floor 5, Building 14, No. 500 Changming Road, Xinjie Street, Xiaoshan District, Hangzhou

Taizhou Sales Office:
Room 502, Building 1, No. 618, West Section of Shifu Avenue, Jiaojiang District, Taizhou City, Zhejiang Province, China

Factory Address:
NO.118 Binfu Road JIJU Zone,Taizhou City, Zhejiang Province ,China