

Product brochure



www.sztrismart.com



Company profile

Shenzhen Trismart Lighting Technology Co., Ltd., located in Guangming district Shenzhen city, is a research and development, design, production and sales of private high-tech enterprises. Company's management and technical team has more than 20 years' experience in the development and design of industrial lightings, professional lightings and lighting engineering systems. The chairman of the company, Dr. Chen Zhong, is the member of China Lighting Society, the Deputy Secretary General of the Shenzhen Lighting Appliance Association and a senior expert of Shenzhen Lighting Society. Trismart Lighting is a cooperative supplier of European Union led street lamps, a network supplier of Royal Shell and a network supplier of large enterprises such as Sinopec, PetroChina, State Grid and Datang Electric Power Group.

Trismart Lighting provides customers with the most reliable products as the basis of management and provides customers with intelligent and high-efficiency products to help customers reduce operating costs and management costs as a source of power for enterprise development, focusing on R & D, production and sales of smart, intelligent, high efficient, environmentally friendly led industrial lights, led high bay lights, led floodlights, led street lights and solar led street lights, and wireless remote lighting control systems based on the latest Internet of things technology, video surveillance and safety management systems, off-grid energy storage systems.

The company strictly according to the ISO 9001: 2015 quality management system for product quality control. The products have passed ATEX/IECEX international explosion-proof certification, CE and RoHS certification. The products are exported to the European Union, Australia, Middle East, South America, Southeast Asia and other countries and regions.

Advantages of Trismart Lighting's products:

1. Adopting ultra brightness 3030 led chips, the lights have high luminous efficacy which are more energy saving and longer lifespan.

- 1) Luminaire efficacy for solar led street light: 220 lm/W
- 2) Luminaire efficacy for led street light: 200 lm/W
- 3) Luminaire efficacy for led high bay light: 200 lm/W
- 4) Luminaire efficacy for led explosion-proof light: 200 lm/W
- 5) Luminaire efficacy for led floodlight: 200 lm/W

2. Adopting the latest Internet of things technology and other wireless communication technologies to meet the wireless remote intelligent lighting control needs of various places.

- 1) 2.4G mesh wireless remote intelligent lighting control system
- 2) PLC wireless remote intelligent lighting control system
- 3) LoRaWAN/NB-IoT wireless remote intelligent lighting control system
- 4) ZigBee wireless solar led street lamp lighting control system

3. The solar lamp adopts low-temperature lithium iron phosphate battery, which can discharge reliably at -30°C and the lifespan can reach more than 3000 cycles and eight years.

4. The unique hexagonal vertical solar panel technology can directly transform the original ordinary city circuit lamp into a solar street lamp, which is resistant to wind and sand, typhoon, snow and 360 ° all-weather charging.

5. ATEX/IECEX certificates, CE/RoHS certification.



vertical solar panel led street light
(220 lm/W for luminaire)



solar led explosionproof light
(200 lm/W for luminaire)



super bright led street light
(200 lm/W for luminaire)



super bright led high bay light
(200 lm/W for luminaire)



led explosionproof platform lighting
(ATEX certificate with 200 lm/W)



super bright led stadium floodlight
(1600W @200 lm/W for luminaire)

Led high bay light series

SZG118 super bright led high bay light



Input voltage: 90~305Vac
Rated power: 100W/150W/200W
Luminous efficacy of lamp: 200 lm/W
Energy saving rate: 50%
Efficiency of led driver: 95%
Beam angle: 90° / 120°
Warranty: 5 year

SZG110 UFO led high bay light



Input voltage: 90~305Vac
Rated power: 100W/150W/200W
Luminous efficacy of lamp: 165 lm/W
Energy saving rate: 35%-40%
Efficiency of led driver: 95%
Beam angle: 90° / 120°
Warranty: 5 year

SZG121 super bright microwave led high bay light



Input voltage: 90~305Vac
Rated power: 100W/150W/200W
Luminous efficacy of lamp: 200 lm/W
Beam angle: 60° / 90° / 120°
Induction dimming: microwave sensor
Maximum mounting height: 15m
Warranty: 5 year

SZG111 microwave led high bay light



Input voltage: 90~305Vac
Rated power: 100W/150W/200W
Luminous efficacy of lamp: 165 lm/W
Beam angle: 60° / 90° / 120°
Induction dimming: microwave sensor
Maximum mounting height: 15m
Warranty: 5 year

SZG113 power led high bay light



Input voltage: 90~305Vac
Rated power: 300W/400W/500W
Luminous efficacy of lamp: 180 lm/W
Energy saving rate: 50%
Efficiency of led driver: 95%
Beam angle: 60° / 90° / 120°
Warranty: 5 year

SZG114 UFO led high bay light

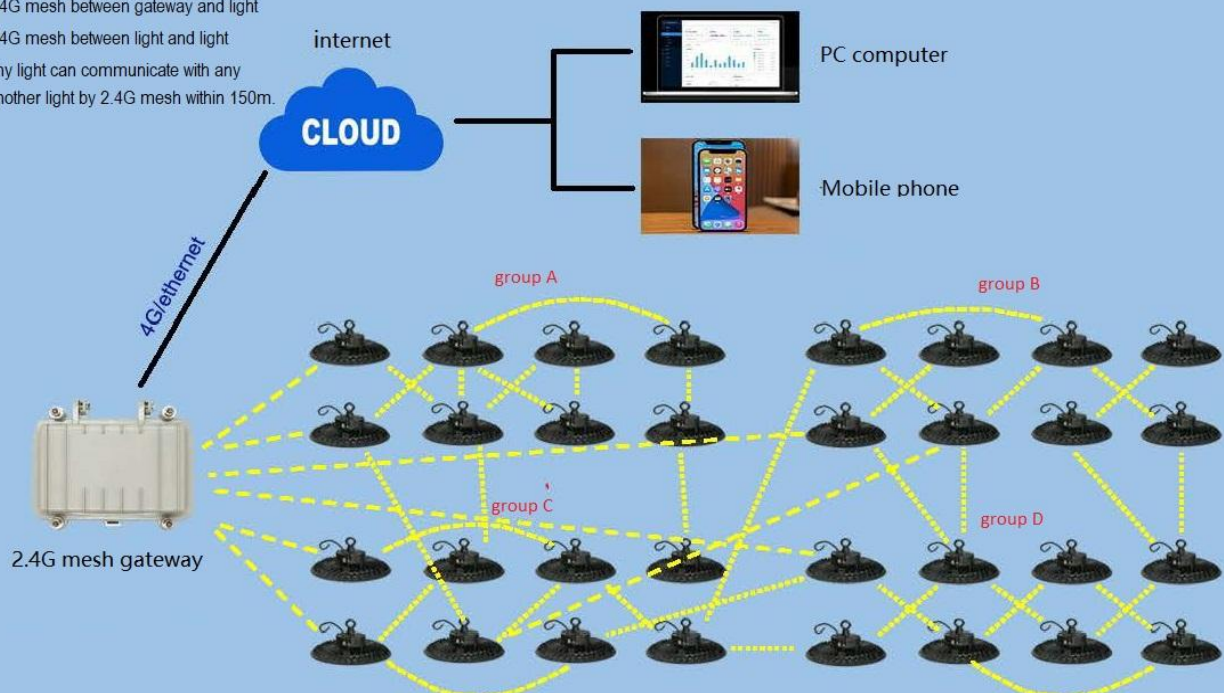


Input voltage: 90~305Vac
Rated power: 60W/100W/150W/200W
Luminous efficacy of lamp: 165 lm/W
Energy saving rate: 35%-40%
Efficiency of led driver: 95%
Beam angle: 60° / 90° / 120°
Warranty: 5 year

Communication:

- 2.4G mesh between gateway and light
- 2.4G mesh between light and light
- Any light can communicate with any another light by 2.4G mesh within 150m.

2.4G mesh wireless intelligent high bay light control system



Led explosionproof light series

SZG200 led explosionproof lamp



Explosionproof mark: $\text{Ex II 2 G Ex demb IIC T6 Gb}$
Rated power: 50W/100W/150W/200W
Luminous efficacy of lamp: 155-170 lm/W
Beam angle: 120°
IP protection: IP66
Mounting mode: G3/4 pipe/U-bracket
Warranty: 5 year

WRTLE310 led explosionproof platform lamp(solar)



Explosionproof mark: $\text{Ex II 2 GD Ex d IIB T6 Gb}$
Patent No: ZL 2021 2 0437042.7
Rated power: 30W/40W/60W
Explosionproof solar panel: 60-120W
Luminous efficacy of lamp: 190-200 lm/W
Control mode: light control+time control
Mounting height: 5-7 m

WRTLE310 led explosionproof platform lamp



Explosionproof mark: $\text{Ex II 2 GD Ex d IIB T6 Gb}$
Rated power: 50W-400W
Luminous efficacy of lamp: 200 lm/W
Beam angle: 90°-120°
IP protection: IP66
Mounting mode: U-bracket
Warranty: 5 year

SZG202C led explosionproof lamp



Explosionproof mark: $\text{Ex III 2 G Ex d IIC T6 Gb}$
Rated power: 50W/75W/100W
Luminous efficacy of lamp: 200 lm/W
Beam angle: 120°
IP protection: IP66
Mounting mode: G3/4 pipe /U-bracket
Warranty: 5 year

SZG202C led explosionproof lamp(emergency)



Explosionproof mark: $\text{Ex II 2 G Ex d IIC T6 Gb}$
Input voltage: 90~305Vac
Rated power: 50W (emergency 5W)
Emergency type: illumination emergency
Emergency time: Li-ion battery, 90min
Mounting mode: G3/4 pipe /U-bracket
Warranty: 3 year

SEF380 explosionproof led floodlight



Input voltage: 90~305Vac
Rated power: 50~250W
Luminous efficacy of lamp: 180 lm/W
Beam angle: 60°/90°/120°/150°*80°
Explosionproof mark: $\text{Ex II 3G Ex ec nC IIC T6}$
IP protection: IP66
Warranty: 5 year

XQL300B explosionproof led street light



Input voltage: 90~305Vac
Rated power: 100W/150W/200W
Luminous efficacy for lamp: 150 lm/W
Beam angle: 130°*60°
IP protection: IP66
Explosionproof mark: Ex d IIC T6 Gb
Mounting mode: $\phi 60$

SEF380 explosionproof led floodlight(emergency)

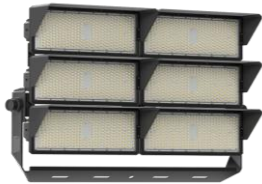


Explosionproof mark: $\text{Ex II 3G Ex ec nC IIC T6}$
Input voltage: 90~305Vac
Rated power: 75W (emergency 6W)
Emergency type: illumination emergency
Emergency time: Li-ion battery, 90min
Beam angle: 60°/90°/120°/150°*80°
Mounting mode: G3/4 pipe /U-bracket



Led floodlight series

SZG307H super bright led stadium floodlight



Test report: IEC60598/ IEC 62741/LM80
Input voltage: 90~305Vac
Rated power: 200W-1600W
Luminous efficacy of lamp: **200 lm/W**
Beam angle: 10° /30° /45° /60° /90°
Led driver: Inventronics led driver
IP protection: IP66
Warranty: 5 year

SZG307 high power led floodlight



Test report: IEC60598/ IEC 62741/LM80
Input voltage: 90~305Vac
Rated power: 250W-1500W
Luminous efficacy of lamp: 170 lm/W
Beam angle: 15° /30° /60°
Led driver: Inventronics led driver
IP protection: IP66
Warranty: 5 year

SZG301H super bright led floodlight



Input voltage: 90~305Vac
Rated power: 50W-600W(50W/modular)
Luminous efficacy of lamp: **180 lm/W**
Energy saving rate: **45%**
Efficiency of led driver: 90%
Beam angle: 30° /60° /90° /145°*70°
IP protection: IP66
Warranty: 5 year

SZG301 led floodlight



Input voltage: 90~305Vac
Rated power: 50W-600W(50W/modular)
Luminous efficacy of lamp: 155 lm/W
Energy saving rate: 30%~35%
Efficiency of led driver: 90%
Beam angle: 30° /60° /90° /145°*70°
IP protection: IP66
Warranty: 5 year

SZG312H super bright led floodlight



Input voltage: 90~305Vac
Rated power: 75W-600W
Luminous efficacy of lamp: **185-200 lm/W**
Energy saving rate: **45%~50%**
Efficiency of led driver: **95%**
Beam angle: 15° /30° /60° /90° /145°*70°
IP protection: IP66
Warranty: 5 year

SZG312 led floodlight



Input voltage: 90~305Vac
Rated power: 100W-600W
Luminous efficacy of lamp: 155 lm/W
Energy saving rate: 30%~35%
Efficiency of led driver: 95%
Beam angle: 15° /30° /60° /90° /145°*70°
IP protection: IP66
Warranty: 5 year

SZG325H super bright led stadium floodlight



Input voltage: 90~305Vac
Rated power: 600W/1200W
Luminous efficacy of lamp: **200 lm/W**
Beam angle: 10° / 30° / 45° / 60°
Led driver: Inventronics led driver
IP protection: IP66
Warranty: 5 year

SZG325 led stadium floodlight



Input voltage: 90~305Vac
Rated power: 600W/1200W/1800W
Luminous efficacy of lamp: 165 lm/W
Beam angle: 10° / 30° / 45° / 60°
Led driver: Inventronics led driver
IP protection: IP66
Warranty: 5 year

SNF208H super bright led floodlight



Input voltage: 90~305Vac
Rated power: 50W-500W
Luminous efficacy of lamp: **180 lm/W**
Beam angle: 60° /90° /120° /150°*80°
Heat dissipation: radiation+air convection
IP protection: IP66
Warranty: 5 year

SNF208 modular led floodlight



Input voltage: 90~305Vac
Rated power: 50W-400W
Luminous efficacy of lamp: 155 lm/W
Beam angle: 60° /90° /120° /150°*80°
Heat dissipation: radiation+air convection
IP protection: IP66
Warranty: 5 year

Solar led street light/led garden light/led floodlight series

SZG575VH vertical solar panel led street light



Rated power: 30W-60W/2*50W/2*60W
Vertical mono solar panel: 120-600W
Features: 360° for sunshine acception
less accumulation of dust&snow
Battery: **low-temperature LiFePO₄ battery (-30℃)**
Luminous efficacy of lamp: **220 lm/W**
Mounting height: 7-10m
Warranty: 5 year

SZG560 vertical solar panel modular



Patent No.: **ZL 2021 2 0422526.4 /**
Modular rated power: 120W/150W/200W
Mono solar panel: vertical solar panel
Sunshine angle: 360° accepted
Dust accumulation: less
Snow accumulation: less
Wind resistance: good due to small area
Mounting: replacement on old lamppost

SZG574H super bright solar led street light



Rated power: 20W/30W/40W/50W/60W
Mono solar panel: 40W-120W
Battery: **low-temperature LiFePO₄ battery (-30℃)**
Luminous efficacy of lamp: **220 lm/W**
Control mode: light control+time control
Microwave sensor: optional
Dark sky requirement: meet
Mounting height: 6-10 m

SZG574 two-in-one solar led street light



Rated power: 20W/30W/40W/50W/60W
Mono solar panel: 40W-120W
Battery: **low-temperature LiFePO₄ battery (-30℃)**
Luminous efficacy of lamp: **200 lm/W**
Control mode: light control+time control
Microwave sensor: optional
Dark sky requirement: meet
Mounting height: 5-9 m

SZG575H super bright solar led street light



Rated power: 20W/30W/40W/50W/60W
Mono solar panel: 40W-130W
Battery: **low-temperature LiFePO₄ battery (-30℃)**
Luminous efficacy of lamp: **220 lm/W**
Battery case: integrated ultra large capacity cavity
Control mode: light control+time control
2.4G remote controller: optional
Mounting height: 6-10 m

SZG575 two-in-one solar led street light



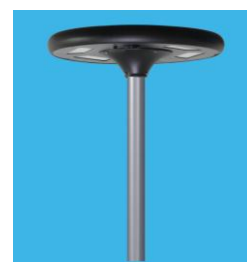
Rated power: 20W/30W/40W/50W/60W
Mono solar panel: 40W-130W
Battery: **low-temperature LiFePO₄ battery (-30℃)**
Luminous efficacy of lamp: **200 lm/W**
Battery case: integrated ultra large capacity cavity
Control mode: light control+time control
2.4G remote controller: optional
Mounting height: 5-9 m

SZG578 auto-cleaning solar led street light



Auto-cleaning for solar panel: 3 times/day
Rated power: 30W/40W/50W/60W
Mono solar panel: 55-110W
Battery: **low-temperature LiFePO₄ battery (-30℃)**
Luminous efficacy of lamp: **200 lm/W**
Control mode: light control+sensor
Microwave sensor: optional
Mounting height: 6-9 m

SZG579 all-in-one solar led garden light



Rated power: 9W/12W/16W/20W/25W
Mono solar panel: 35W/50W
Battery:
Luminous efficacy of lamp: **200 lm/W**
Control mode: light control+sensor
Dark sky requirement: yes
2.4G remote controller: optional
Mounting height: 4-8 m

SZG573 all-in-one solar led street light



Rated power: 20W/30W/40W/45W
Mono solar panel: 25W/60W
Battery: **low-temperature LiFePO₄ battery (-30℃)**
Luminous efficacy of lamp: **200 lm/W**
Control mode: light control+microwave
Angle adjustment: yes
2.4G remote controller: optional
Mounting height: 5-8m

SZG576 all-in-one solar led garden light



Rated power: 15W/20W
Mono solar panel: 25W/33W
Battery: **low-temperature LiFePO₄ battery (-30℃)**
Luminous efficacy of lamp: **200 lm/W**
Control mode: light control+PIR sensor
Dark sky requirement: yes
2.4G remote controller: optional
Mounting height: 4-6 m



SZG552 all-in-one solar led street light

Rated power: 20W/30W/40W/50W/60W
 Mono solar panel: 30W-110W
 Battery: low-temperature LiFePO₄ battery (-30℃)
 Luminous efficacy of lamp: 220 lm/W
 Control mode: light control+sensor control
 Dark sky requirement: custom made
 2.4G remote controller: optional
 Mounting height: 6-10 m

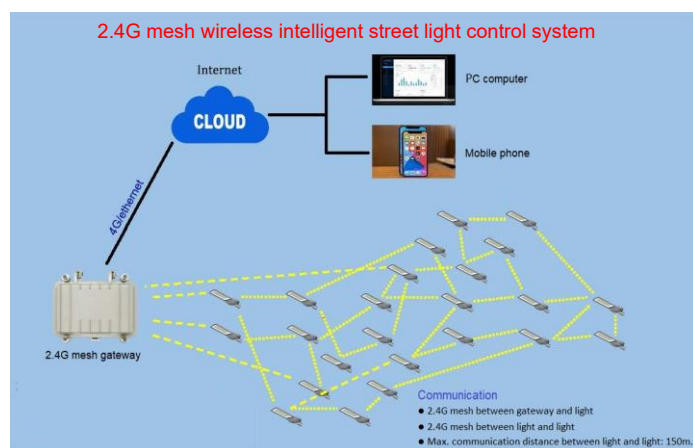
SZG301SH super bright solar led floodlight

Rated power: 30W/40W/50W/60W/80W
 Mono solar panel: 40W-110W
 Battery: low-temperature LiFePO₄ battery (-30℃)
 Luminous efficacy of lamp: 190-200 lm/W
 Beam angle: 30° /60° /90° /145°*70°
 Control mode: light control+time control
 2.4G remote controller: optional
 Mounting height: 4-8m



Led street light series

	SZG512H super bright led street light Rated power: 50W/75W/100W/150W/200W Luminous efficacy of lamp: 200 lm/W Led driver: Inventronics led driver Angle adjustable: $-90^{\circ} \sim +30^{\circ}$ Light sensor: NEMA light sensor Streamlined design: no dust accumulation Warranty: 5 years	SZG512 led street light with dark sky Rated power: 50W/75W/100W/150W/200W Luminous efficacy of lamp: 180 lm/W Led driver: Inventronics led driver Angle adjustable: $-90^{\circ} \sim +30^{\circ}$ Light sensor: NEMA light sensor Streamlined design: no dust accumulation Warranty: 5 years	
	SZG508 super bright led street light Rated power: 50W/100W/150W/200W Luminous efficacy of lamp: 180 lm/W Cover open: flip open/easy maintenance Angle adjustable: $-90^{\circ} \sim +30^{\circ}$ Light sensor: NEMA light sensor Dark sky requirement: meet Warranty: 5 years	SZG508 led street light with dark sky Rated power: 50W/100W/150W/200W Luminous efficacy of lamp: 150 lm/W Cover open: flip open/easy maintenance Angle adjustable: $-90^{\circ} \sim +30^{\circ}$ Light sensor: NEMA light sensor Dark sky requirement: meet Warranty: 5 years	
	SZG507H super bright led street light Input voltage: 90~305Vac Rated power: 50W/100W/150W/200W Luminous efficacy of lamp: 180 lm/W Beam angle: $140^{\circ} \times 70^{\circ}$ Led driver: Inventronics/Trismart Lighting IP protection: IP66 Warranty: 5 years	SZG507 led street light Input voltage: 90~305Vac Rated power: 50W/100W/150W/200W Luminous efficacy of lamp: 155 lm/W Beam angle: $140^{\circ} \times 70^{\circ}$ Led driver: Inventronics/Trismart Lighting IP protection: IP66 Warranty: 5 years	
	SNF288 super bright led street light Test report: IEC 60598/IEC 61000/LM79/LM80 Rated power: 50W/100W/150W/200W Luminous efficacy of lamp: 180 lm/W Beam angle: $140^{\circ} \times 70^{\circ}$ Led driver: Inventronics/Trismart Lighting Angle adjustable: $-90^{\circ} \sim +90^{\circ}$ Warranty: 5 years	SZG512 led street light dark sky Test report: IEC 60598/IEC 61000/LM79/LM80 Rated power: 50W/100W/150W/200W Luminous efficacy of lamp: 155 lm/W Beam angle: $140^{\circ} \times 70^{\circ}$ Led driver: Inventronics/Trismart Lighting Angle adjustable: $-90^{\circ} \sim +90^{\circ}$ Warranty: 5 years	



Off-grid energy storage system

SES1000-1500D off-grid energy storage power



Output power: 1000W
Peak power: 2500W
Output wave: pure sine wave
AC output voltage: 220~230Vac/50Hz
DC output voltage: 5V / 12V
LFP battery: 1000Wh
Charging mode: PV charging/AC charging
Communication: RS485/wifi/GPRS

SES1000-2000D off-grid energy storage power



Output power: 1000W
Peak power: 2500W
Output wave: pure sine wave
AC output voltage: 220~230Vac/50Hz
DC output voltage: 5V / 12V
LFP battery: 2000Wh
Charging mode: PV charging/AC
Communication: RS485/wifi/GPRS

SES2000-2500D off-grid energy storage power



Output power: 2000W
Peak power: 5000W
Output wave: pure sine wave
AC output voltage: 220~230Vac/50Hz
DC output voltage: 5V / 12V
LFP battery: 2500Wh
Charging mode: PV charging/AC charging
Communication: RS485/wifi/GPRS

SES1000-4000D off-grid energy storage power



Output power: 2000W
Peak power: 5000W
Output wave: pure sine wave
AC output voltage: 220~230Vac/50Hz
DC output voltage: 5V / 12V
LFP battery: 4000Wh
Charging mode: PV charging/AC
Communication: RS485/wifi/GPRS

SES3000-5000D off-grid energy storage power



Output power: 3000W
Peak power: 8000W
Output wave: pure sine wave
AC output voltage: 220~230Vac/50Hz
DC output voltage: 5V / 12V
LFP battery: 5000Wh
Charging mode: PV charging/AC charging
Communication: RS485/wifi/GPRS

SES5000-5000D off-grid energy storage power



Output power: 5000W
Peak power: 12500W
Output wave: pure sine wave
AC output voltage: 220~230Vac/50Hz
DC output voltage: 5V / 12V
LFP battery: 5000Wh
Charging mode: PV charging/AC
Communication: RS485/wifi/GPRS

SES5000-10000D off-grid energy storage power



Output power: 5000W
Peak power: 12000W
Output wave: pure sine wave
AC output voltage: 220~230Vac/50Hz
DC output voltage: 5V / 12V
LFP battery: 10000Wh
Charging mode: PV charging/AC charging
Communication: RS485/wifi/GPRS

SES7000-10000D off-grid energy storage power



Output power: 7000W
Peak power: 18000W
Output wave: pure sine wave
AC output voltage: 220~230Vac/50Hz
DC output voltage: 5V / 12V
LFP battery: 10000Wh
Charging mode: PV charging/AC
Communication: RS485/wifi/GPRS



Smart lamp/remote wireless intelligent lamp series



SZG620 city smart lamp

- Intelligent street light: automatic switching, dimming, group, position, fault auto alarm, report output
 - Model: SZG508W
 - Input voltage: 220Vac 50-60Hz
 - Power: 50W/100W/150W/200W
 - Remote communication: LoRaWAN/NB-IoT
 - Transmission distance: 10Km (visual) / 2Km (urban)
 - Control quantities: ≥300 sets
- Smart lamp
 - video surveillance: security monitoring, license plate
 - micro weather stations: monitoring urban environment, Including noise, air pollution, temperature, Humidity, brightness
 - information issue: environmental aspect, weather forecast government notice, news broadcasting, traffic Induction, advertisement
 - emergency call: the public in times of danger and difficulty to the regulatory authorities to call for help or find a major mystery or accident reports
 - charging pile: new energy vehicle
 - wireless network: hotspot wifi, micro base station
 - RFID: special crowd and municipal facility monitoring
- Background soft management and control system

Control parts of intelligent street light:



NB-IoT slave controller



LoRaWAN gateway



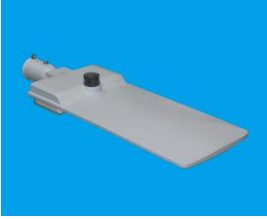
LoRaWAN slave controller
/NB-IoT slave controller

Intelligent remote circuit controller:

It integrates electric energy monitoring, overload, short circuit, overvoltage protection, remote control, network communication function and high centralized intelligent electric actuator.

- protection function: monitor output power consumption, automatically cut off power supply in abnormal condition
- automatic reclosing: realization of unattended, automatic reclosing after line recovery
- metering function: voltage and current real-time monitoring and electric energy metering
- wireless communication: with local RS485 communication and GPRS wireless communication, can achieve far away process classification control, fault query and measurement data reporting
- equipment management: with perfect fault condition monitoring (overload, short circuit, under voltage, lack of phase, phase imbalance) and real-time reporting and warning



	SZG512W wireless intelligent led street light Rated power: 50W/75W/150W/200W/200W Luminous efficacy of lamp: 200 lm/W Communication mode: 2.4G mesh Net structure: Mesh network(ADHOC) Max. distance: 150m(no disconnection) Remote control: gateway(4G/LAN)+PC Streamlined design: no dust accumulation	SZG508W wireless intelligent led street light Rated power: 50W/100W/150W/200W Luminous efficacy of lamp: 165 lm/W Communication mode: 2.4G mesh Net structure: Mesh network(ADHOC) Max. distance: 150m(no disconnection) Remote control: gateway(4G/LAN)+PC Streamlined design: no dust accumulation	
	SZG118W wireless intelligent led high bay light Rated power: 100W/150W/200W Luminous efficacy of lamp: 200 lm/W Communication mode: 2.4G mesh Net structure: Mesh network(ADHOC) Max. distance: 150m(no disconnection) Remote control: gateway(4G/LAN)+PC/APP Warranty: 5 year	SZG312W wireless intelligent led floodlight Rated power: 100W-600W Modular power: 100W/modular Luminous efficacy of lamp: 155 lm/W Communication mode: 2.4G mesh Net structure: Mesh network(ADHOC) Max. distance: 150m(no disconnection) Remote control: gateway(4G/LAN)+PC	
	SZG553Z wireless solar led street light Rated power: 60W/80W Mono solar panel: 60W/75W Battery: LiFePO ₄ , 5 year's warranty Luminous efficacy of lamp: 220 lm/W Beam angle: 150° * 80° Remote communication: ZigBee Net structure: Mesh network Warranty: 5 years	SZG574Z wireless solar led street light Rated power: 80W Mono solar panel: 120W Battery: LiFePO ₄ , 5 year's warranty Luminous efficacy of lamp: 220 lm/W Beam angle: 140° * 70° Remote communication: ZigBee Net structure: Mesh network Warranty: 5 years	



Advantages:

- 2.4G mesh wireless communication
- With mesh network structure, light and light can automatically make addressing and flexible networking. Each light is both node and relay station which can ensure no disconnection and continuous network connection.
- Maximum transmission distance: 150 meters, even for individual sections if there is a malfunction or poor communication, it can also automatically search for another one node or cross node transmission.
- Both single lamp control and group control can be carried out.
- Maximum number of supported nodes: 15000pcs
- Adopting advanced frequency hopping technology with strong anti-interference ability
- Support remote control of PC computer and mobile app
- Support on-site scene panel control
- Maximum power for single light: 2000W

Internet of things intelligent lighting cloud control system

➤ Lighting status

- using a timer or light sensor to control lights on/off
- cannot remotely control the brightness of lamps to achieve the purpose of saving energy and reducing consumption
- cannot adjust the lighting operation mode according to holidays and seasons(especially seasons)
- cannot remote, real-time access to lighting operating parameters
- cannot get the lighting daily, monthly accurate energy consumption data, grasp the effect of energy conservation and emission reduction
- lamp malfunction depends on manual report
- cannot quickly and accurately determine the location of lighting fixtures

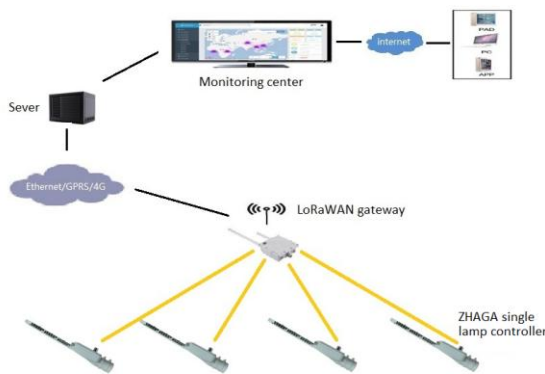
➤ Internet of Things based on wireless remote communication technology - LoRaWAN technology

LoRa technology is the most promising low-power wide-area communication technology. LoRa adopts the linear frequency modulation spread spectrum modulation technology and keeps maintaining low power consumption so that the communication distance and network efficiency are obviously increased, and the interference is eliminated. Even if the same frequency is used, the transmission does not interfere with each other.

LoRaWAN is an open standard that defines communication protocols based on LPWAN technology of LoRa chips. LoRaWAN is a star or star-to-star topology that is better than a mesh network because of its advantages in maintaining battery power and increasing communication range.

➤ Topology of LoRaWAN intelligent lighting cloud control system

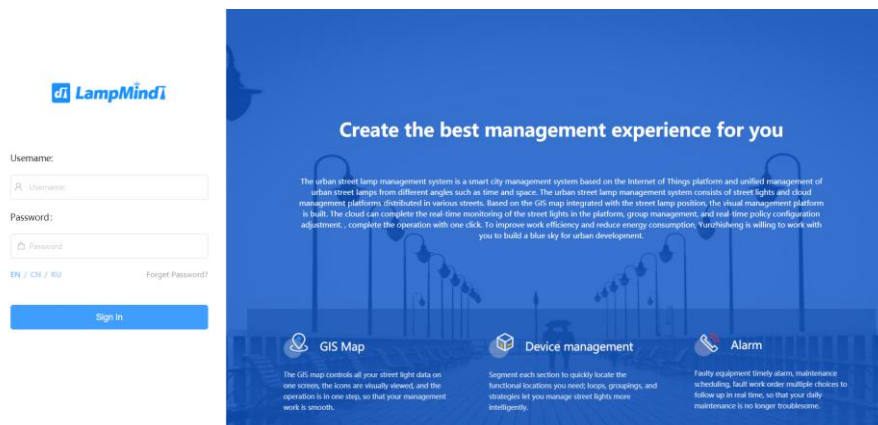
LoRaWAN wireless intelligent lighting system



Functions and features:

- Follow the LoRaWAN wireless transmission protocol
- Support 2G/3G/4G and LAN multiple network access modes
- Adaptive Data Transfer Rate
- Output power up to 23 dBm
- Sensitivity reduced to -142.5 dBm
- Support 8 channels concurrency, can access the number of lamps up to 2000
- Maximum transmission distance: 10 Km(visual)
/4 Km(urban)
- Support 470MHz/US915MHz/EU868MHz working frequencies
- Lightning grounding Protection

➤ LoRaWAN intelligent lighting cloud control system background management software platform



Wireless remote intelligent monitoring led street light

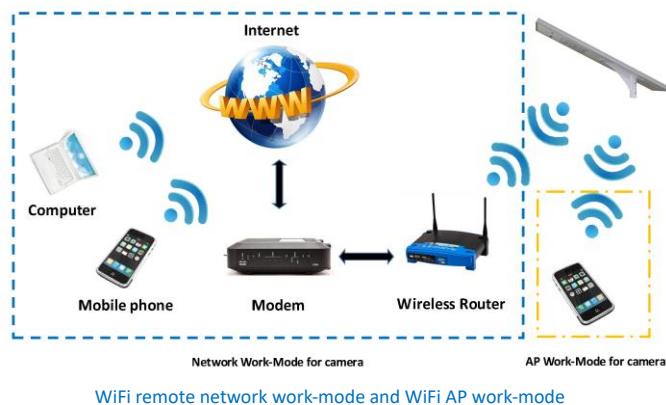
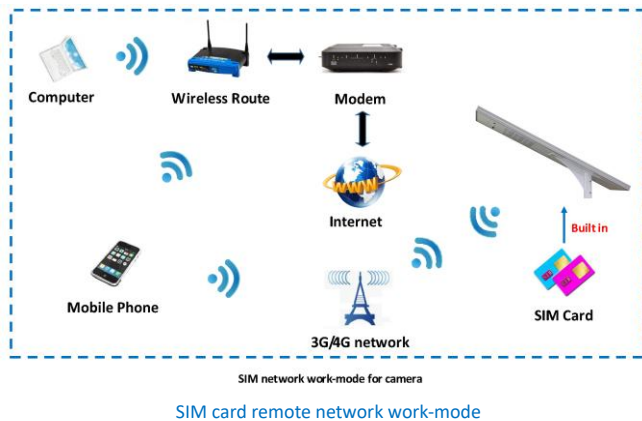
Product picture:



Monitoring video effect:



➤ Topology map of wireless remote intelligent monitoring illumination system



Functional characteristics:

- With a built-in integrated wifi HD camera or a plug-in camera through wireless router or 3G/4G SIM cell phone card connecting Internet, it can remotely monitor the site situation at any time by using mobile phone or computer and download the required video data remotely from TF card.
- It is built in 1080P camera which doesn't need cable and broadband. It can video the events at the scene under the lamp and store the data in TF card automatically.
- 32G TF memory card can store data for more than 15 days. When the recording data is full, it can circularly overwrite the previous data.
- It can be used as both lighting lamp fittings and background remote online video monitoring function in the following places:
Urban roads, township roads and rural roads
Industrial park roads
factory area roads
Parks and gardens
Villa and a private house
Commercial and cultural center