SUNMASTER



Smart Public Facilities Overall Solution

More Power,Less Expense

Introduction And Software Platform

The one-stop solution for smartpublic facilities is based on the needs of building smart city infrastructure and centered on meeting customer needs, providing customers with one-stop central controlsoftware platform construction, intelligent hardware production, data information collection, equipment installation, equipment Operation and maintenance of five services.

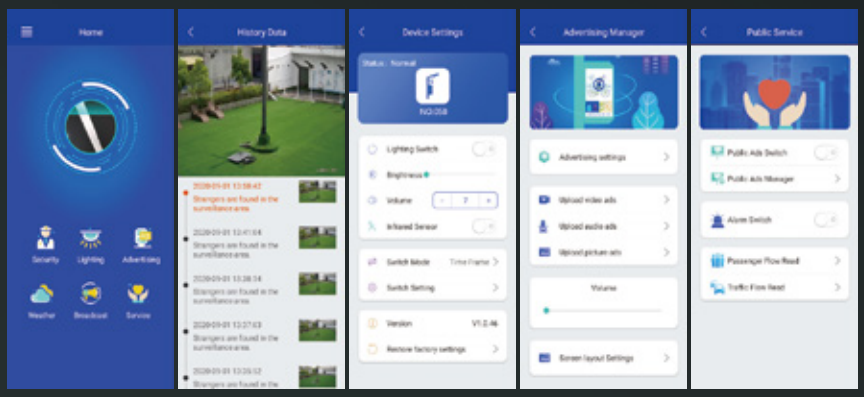


The solution is highly flexible, and different intelligent hardware products can be selected according to different application scenarios to quickly complete the ecological construction of intelligent public facilities in scenarios. The smart public facility platform has integrated different smart hardware products such as smart street lights, smart access control, smart manhole covers, smart navigation screens, smart bus stops, smart seats, smart charging piles, and smart seats, with functions covering lighting, security, transportation, convenience services, advertising and other fields.

Based on the needs of smart city development, in order to facilitate the digital and visual management of urban public facilities, we have launched a self-developed and designed smart public facilities software management platform.

Mobile phone APP

It is mainly used for mobile remote management of smart public facilities, with functions such as smart security, smart lighting, smart advertising, smart environmental protection, voice broadcasting and public services, covering most of the data and visual management requirements of public facilities in smart cities.



PC terminal platform

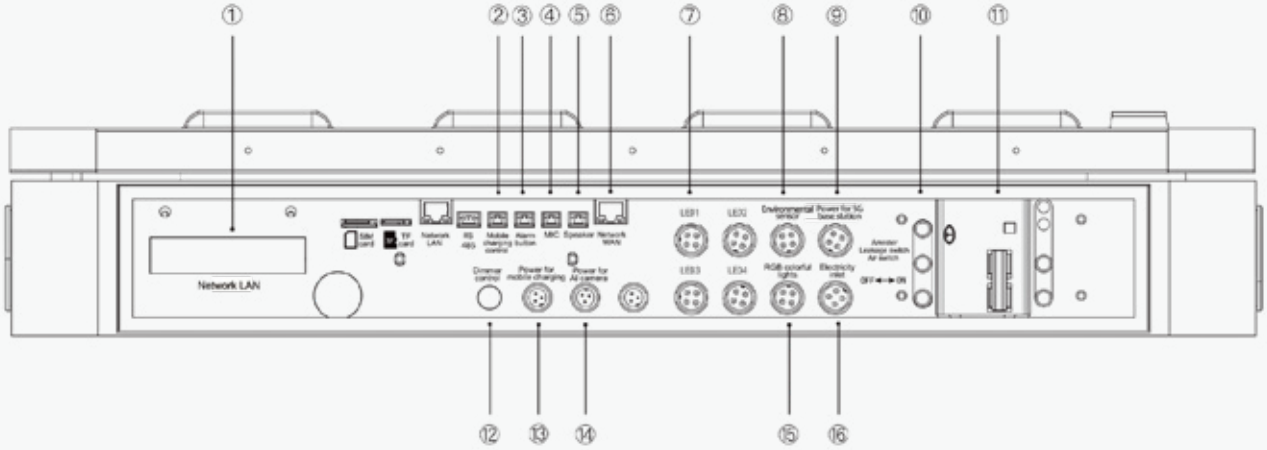
It is mainly used for the large-screen comprehensive management of the smart city control center, and completes the visual management of urban public facilities through 3D smart city maps. It also has functions such as smart security, smart lighting, smart advertising, smart environmental protection, voice broadcasting, and public services.



Smart Pole Function Description

Schematic diagram of the functional interface





Schematic diagram of the functional interface

HD AI camera

AI camera integration algorithms include:face recognition, object movement detection human body recognition, vehicle information recognition,road manhole cover recognition, etc.

Management of platform

Support multiple management platforms of Android,ISO and PC. Manage the device anytime and anywhere and control the latest situation of the device in real time.

Great expansibility

The product adopts modular structure,which can support different functional modules according to different requirements to form functional products.AI algorithms are diversified and different algorithms can be loaded according to the needs of the scene.

Network linkage control

Integrating LoRa wireless networking Technology, one master device can control multiple sub devices.

Multiple network communication modes

Support multi-national 4G/5G/WIFI communication mode to ensure unobstructed network.

Smart Pole Function Description



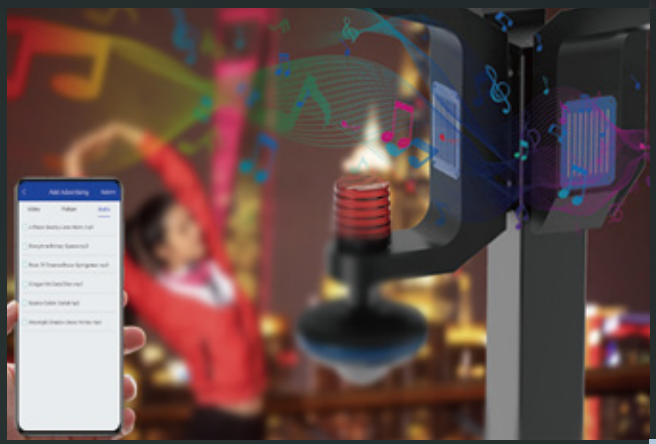
Smart Lighting

- Adopting A-grade LED high-brightness lamp beads, the whole light efficiency reaches 170LM/W.
- The effective irradiation range of the optical integral polarizing lens is 140°.
- It has three lighting modes: time control, light control, and human body sensor.
- Lighting electricity data statistics.



Smart Advertising

- Remote intelligent play advertising.
- Support to set ad playback volume by ad period.
- Support live broadcast management, regular news broadcasts, major events and other real-time live broadcasts.



Smart Broadcast

- Play audio with the display.
- Regular voice broadcast, broadcast the weather of surrounding environment conditions.
- Broadcast reminders can be used for safety warnings, civilized reminders, etc.
- Combined with microphone and key switch, remote voice dialogue can be carried out.
- Music playback in casual environments.



Environmental Monitoring

- Monitor surrounding weather conditions with environmental sensors.(wind direction / wind speed / temperature / humidity/ atmospheric pressure / noise / PM2.5 / PM10)
- The environmental data can be displayed on the LED screen, and the environmental data can also be set to broadcast every hour.
- High/low temperature warning reminder.

Smart Pole Function Description

Smart Monitoring

- Monitor passing vehicles and collect information on violations of laws and regulations.
- Monitor abnormal behavior personnel and provide assistance in emergencies.
- Monitor dangerous tools in the surrounding environment to prevent security incidents.
- Monitor the sewer manhole covers on the surrounding roads, and report to the control center as soon as abnormality is found.
- Monitor the surrounding mountain conditions and issue an alarm quickly if there is an abnormality.





Smart Charging

- Wireless charging or USB charging port provides emergency charging service for mobile phones.
- Support swipe card and QR code payment, providing a convenient charging service for electric vehicles.
- The App and the PC terminal can get the status information of the charging pile in real time.

Smart Network

- Cooperating with telecom operators to mount 5G micro base station.
- Remotely manage shared WiFi hotspots.
- Statistics of terminal network flow usage.





SOS Button

- When a danger occurs, you can press the alarm switch on smart pole to give alarm, and the flashing light immediately turn on and send instructions to the monitoring platform, and the camera cruises around to shoot pictures.
- If the smart pole system is connected to the public security system, it will send the signal to the public security system simultaneously with pressing alarm switch dial the alarm call and send the alarm location, communicating with the public security department remotely real time in order to quickly elimiate the danger.

Smart Pole Function Description



Smart Pole JiuZhou Series

Product description

Inspired by Chinese traditional culture and art, the design of Jiuzhou series smart street lamps is decorated with traditional geometric lines, giving the products a kind of festivity, liveliness and peace. It adopts modular product structure design, integrates 4G/5G/WiFi communication module, high-definition LCD screen module, high-definition AI camera module, security alarm module, environmental monitoring module and intelligent charging module, and uses Internet of Things and Internet technology to make street lamps become intelligent city information collection terminals and convenient service terminals, and an important entry point for smart cities.



Functions


Smart lighting


Smart Security


Environmental monitoring


Smart network



Smart Advertising


Smart Broadcasting


Smart charging


SOS

Specifications

Display screen	
Screen size	32 inch(734*431.5*40mm)
Screen type	LCD,TFT
Screen resolution	1920*1080P
Screen brightness	≦2000cd/㎡ (Automatically adjust brightness)

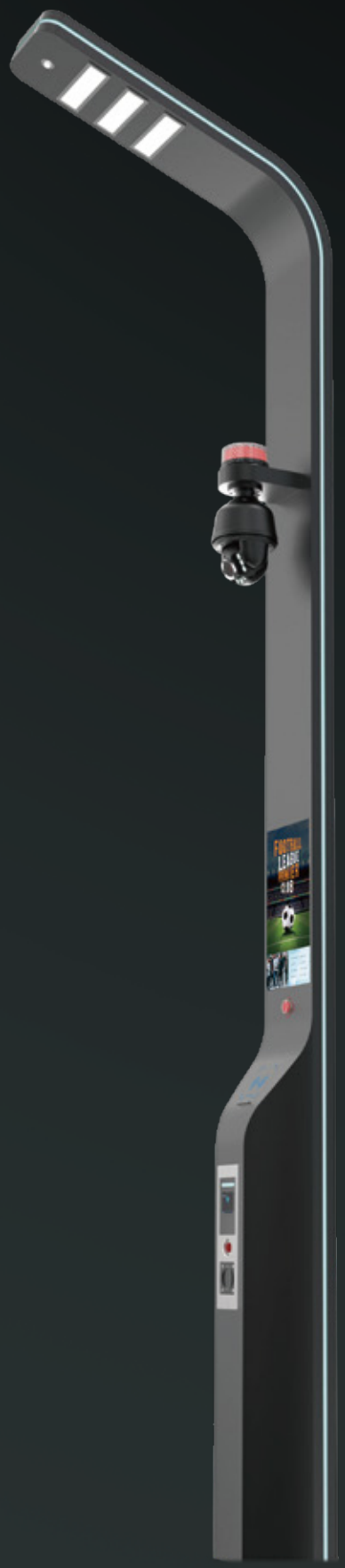
Camera	
Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others	
Mic	9745，-30dB
LED lighting source	9-54V，400W(Max)
Built-in TF card	64G（256G Max）
Built-in speaker	4Ω/15W/φ105mm
Environment sensor	12V，0.8W(Max)
USB charging	5V/9V/12V，24W（Max），supportfast charging
Car charging pile	AC 110V/220V 3.2KW(110V) / 7KW(220V)
Water level monitoring	0∽2 meters, customizable detection height
Pole tilt monitoring	Gyro sensor monitoring, monitoring accuracy 0.1°

Smart Pole Gentleman series

Product description

Gentleman series smart pole is with feature of slim, light, stylish and elegant, which is designed with a modular structure.It integrates 4G/5G/WiFi communication module, LCD/LED screen module, high-definition AI camera module, security alarm module, environmental monitoring module, intelligent EV charger module are integrated into one. Using the Internet of Things and Internet technology to make smart pole become the final information collection terminal of smart cities.The Terminal of public sevice is an important entry point for smart cities.



Functions

Smart lighting

Smart Security

Environmental monitoring

Smart network

Smart Advertising

Smart Broadcasting

Smart charging

SOS

Specifications

Display screen	
Screen size	21 inch(293*496*11mm)
Screen type	LCD,TFT
Screen resolution	1920*1080P
Screen brightness	≦1200cd/㎡ (Automatically adjust brightness)

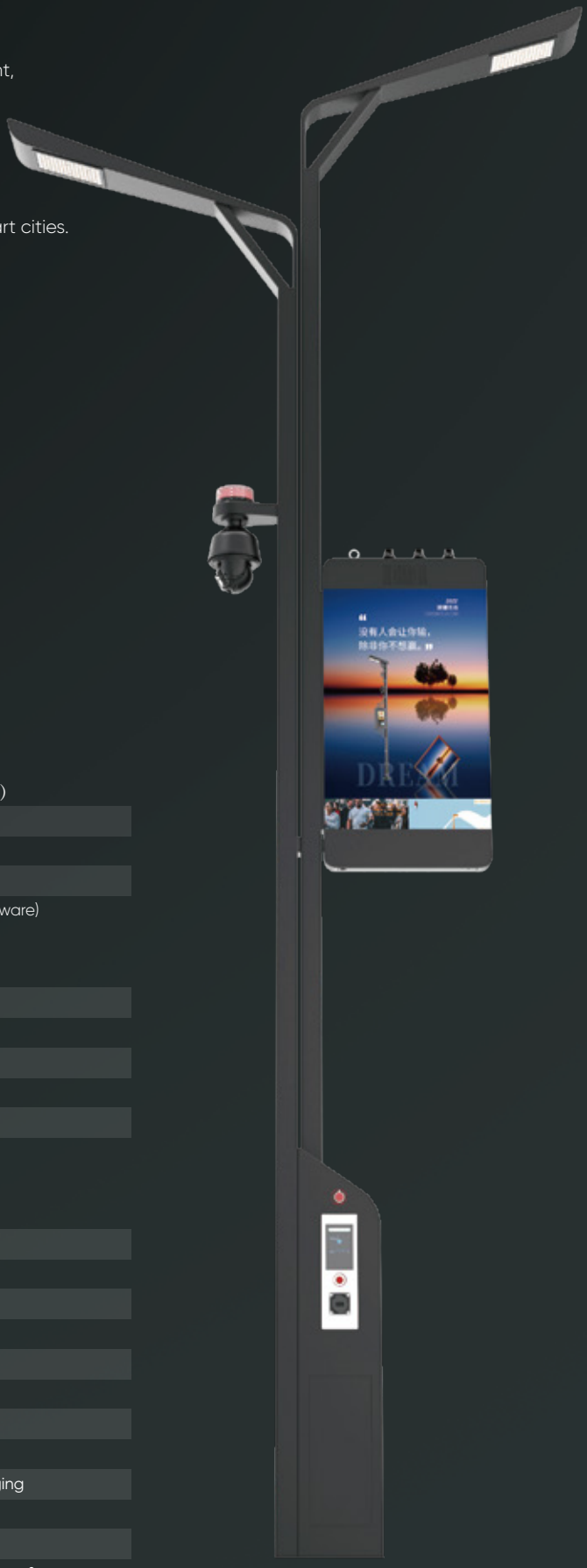
Camera	
Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others	
Mic	9745，-30dB
LED lighting source	9-54V，400W(Max)
Built-in TF card	64G（256G Max）
Built-in speaker	4Ω/15W/φ105mm
Environment sensor	12V，0.8W(Max)
USB charging	5V/9V/12V，24W（Max），supportfast charging
Car charging pile	AC 110V/220V 3.2KW(110V) / 7KW(220V)
Mobile phone wireless charger	Output 20W (Max)
RGB ambient light strip	24V，10W/m
Flashing	12V，0.4A，5W

Smart Pole Saika series

Product description

Saika series smart pole is with feature of slim, light, stylish and elegant, which is designed with a modular structure.It integrates 4G/5G/WiFi communication module,LCD/LED screen module, high-definition AI camera module, security alarm module, environmental monitoring module, intelligent EV charger module are integrated into one. Using the Internet of things and internet technology to make smart pole become the final information collection terminal of smart cities.The terminal of public sevice is an important entry point for smart cities.



Functions

Smart lighting

Smart Security

Environmental monitoring

Smart network

Smart Advertising

Smart Broadcasting

Smart charging

SOS

Specifications

Display screen (Customizable, refer to the screen specification table)

Screen size	384*768
Screen type	LED screen, full color, P3
Screen resolution	128*256
Screen brightness	≧5000cd/㎡(Adjustable brightness via software)

Camera

Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others

Mobile wireless charging	Output 20W (Max)
Mic	9745，-30dB
LED lighting source	9-54V，400W(Max)
RGB ambient light strip	24V，10W/m
Built-in TF card	64G（256G Max）
Built-in speaker	4Ω/15W/φ105mm
Flashing	12V，0.4A，5W
Environment sensor	12V，0.8W(Max)
USB charging	5V/9V/12V，24W（Max），supportfast charging
Car charging pile	AC 110V/220V 3.2KW(110V) / 7KW(220V)
Water level monitoring	0∽2 meters, customizable detection height
Pole tilt monitoring	Gyro sensor monitoring, monitoring accuracy 0.1°

Smart Pole Pioneer series

Product description

The pioneer series of smart street lamps is a reinterpretation of the future era of smart street lamps, which can make the whole field of smart street lamps more thoughtful. The modular structure design is adopted to integrate 4G/5G/WiFi communication module, LCD/LED screen module, high-definition AI camera module, security alarm module, environmental monitoring module and intelligent charging module. The Internet of Things and Internet technology are used to make street lamps become the information collection terminal and convenient service terminal of Hehui City, which is an important entry point of smart city.



Functions

Smart lighting

Smart Security

Environmental monitoring

Smart network

Smart Advertising

Smart Broadcasting

Smart charging

SOS

Specifications

Display screen	
Screen size	32 inch(734*431.5*40mm)
Screen type	LCD,TFT
Screen resolution	1920*1080P
Screen brightness	≦2000cd/㎡ (Automatically adjust brightness)

Camera	
Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others	
Mobile wireless charging	Output 20W (Max)
Mic	9745，-30dB
LED lighting source	9-54V，400W(Max)
RGB ambient light strip	24V，10W/m
Built-in TF card	64G(256G Max)
Built-in speaker	4Ω/15W/φ105mm
Environment sensor	12V，0.8W(Max)
USB charging	5V/9V/12V，24W（Max)，supportfast charging
Car charging pile	AC 110V/220V 3.2KW(110V) / 7KW(220V)
Water level monitoring	0∽2 meters, customizable detection height

Smart Pole Pierce series

Product description

The smart street lamps of Pierce series are dignified, simple and rigorous. The modular structure design is adopted to integrate 4G/5G/WiFi communication module, high-definition LCD screen, high-definition AI camera module, security alarm module, environmental monitoring module and intelligent charging module. The Internet of Things and Internet technology are used to make street lamps become the information collection terminal and convenient service terminal of smart cities and an important entry point of smart cities.



Functions

Smart lighting

Smart Security

Environmental monitoring

Smart network

Smart Advertising

Smart Broadcasting

Smart charging

SOS

Specifications

Display screen	
Screen size	32 inch(734*431.5*40mm)
Screen type	LCD,TFT
Screen resolution	1920*1080P
Screen brightness	≦2000cd/㎡ (Automatically adjust brightness)

Camera	
Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others	
Mobile wireless charging	Output 20W (Max)
Mic	9745，-30dB
LED lighting source	9-54V，400W(Max)
RGB ambient light strip	24V，10W/m
Built-in TF card	64G(256G Max)
Built-in speaker	4Ω/15W/φ105mm
Environment sensor	12V，0.8W(Max)
USB charging	5V/9V/12V，24W（Max)，supportfast charging
Car charging pile	AC 110V/220V 3.2KW(110V) / 7KW(220V)
Flashing	12V，0.4A，5W

Smart Pole Boke series

Product description

Boke serie smart pole adopt proportional split double poles design,which has clear edges and corners with a sense of technology of 4G/5G/WiFi communication module, LCD/LED screen module, HD AI camera module, security reporting module, environmental monitoring module, intelligent EV charger module. Using the internet of things and internet technology to make smart pole become the final information collection terminal of smart cities.The terminal of public sevice is an important entry point for smart cities.

Functions

Smart lighting

Smart Security

Environmental monitoring

Smart network

Smart Advertising

Smart Broadcasting

Smart charging

SOS

Specifications

Display screen(Customizable, refer to the screen specification table)	
Screen size	384*768
Screen type	LED screen, full color, P3
Screen resolution	128*256
Screen brightness	≧5000cd/㎡(Adjustable brightness via software)

Camera	
Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others	
Mobile wireless charging	Output 20W (Max)
Mic	9745，-30dB
LED lighting source	9-54V，150W(Max)
RGB ambient light strip	24V，10W/m
Built-in TF card	64G(256G Max)
Built-in speaker	4Ω/15W/φ105mm
Environment sensor	12V，0.8W(Max)
USB charging	5V/9V/12V，24W（Max)，supportfast charging
Car charging pile	AC 110V/220V 3.2KW(110V) / 7KW(220V)
Visual SOS system	12V, 7W (built-in camera, microphone, speaker)
Water level monitoring	0∽2 meters, customizable detection height
Pole tilt monitoring	Gyro sensor monitoring, monitoring accuracy 0.1°
Spraying system	100-220V/50W ,spray volume 4L/min



Smart Pole Glory series

Product description

Glory series smart pole is made of multi-light heads that is elegant and beautiful and fashionable, which let the product be reflecting the care of human nature. It is modular structural design of 4G/5G/WiFi communication module, LCD high-definition screen module, high-definition AI camera module, security alarm module, environmental monitoring module, intelligent charging module . Using the Internet of Things and Internet technology to make smart pole become the final information collection terminal of smart cities.The Terminal of public sevice is an important entry point for smart cities.



Functions

Smart lighting

Smart Security

Environmental monitoring

Smart network

Smart Advertising

Smart Broadcasting

Smart charging

SOS

Specifications

Display screen(Customizable, refer to the screen specification table)	
Screen size	384*768
Screen type	LED screen, full color, P3
Screen resolution	128*256
Screen brightness	≧5000cd/㎡(Adjustable brightness via software)

Camera	
Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others	
Mobile wireless charging	Output 20W (Max)
Mic	9745，-30dB
LED lighting source	9-54V，150W(Max)
RGB ambient light strip	24V，10W/m
Built-in TF card	64G(256G Max)
Built-in speaker	4Ω/15W/φ105mm
Environment sensor	12V，0.8W(Max)
USB charging	5V/9V/12V，24W（Max)，supportfast charging
Car charging pile	AC 110V/220V 3.2KW(110V) / 7KW(220V)
Visual SOS system	12V, 7W (built-in camera, microphone, speaker)
Water level monitoring	0∽2 meters, customizable detection height
Pole tilt monitoring	Gyro sensor monitoring, monitoring accuracy 0.1°
Spraying system	100-220V/50W ,spray volume 4L/min
Visual SOS system	12V, 7W (built-in camera, microphone, speaker)
5G base station	Location reserved

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Smart Pole Halo series

Product description

Halo series smart street lamp adopts the design of surround light source and embedded display, which makes the appearance clean and the overall design more fashionable. It also adopts modular structure design, integrating 4G/5G/WiFi communication module, high-definition LCD screen module, clear AI lifting head module, security alarm module, and smart charging module. Using Internet of Things and Internet technology, it makes street lamps become the information acquisition and sales terminal and civil service terminal of smart cities, and an important entry point of smart cities.



Functions


Smart lighting


Smart Security


Smart network


SOS



Smart Advertising


Smart Broadcasting


Smart charging

Specifications

Display screen	
Screen size	32 inch(734*431.5*40mm)
Screen type	LCD,TFT
Screen resolution	1920*1080P
Screen brightness	≦2000cd/㎡ (Automatically adjust brightness)

Camera	
Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others	
Mic	9745，-30dB
LED lighting source	9-54V，400W(Max)
Built-in TF card	64G（256G Max）
Built-in speaker	4Ω/15W/φ105mm
Car charging pile	AC 110V/220V 3.2KW(110V) / 7KW(220V)
USB charging	5V/9V/12V，24W（Max），supportfast charging

Smart Pole Elegant series

Product description

Elegant series of smart street lamps adopt modern minimalist style, rounded shape and modular structure design. It uses 4G/5G/WiFi communication module, high-definition LCD screen module, high-definition AI camera module, security alarm module, environmental monitoring module, USB charging crossbar, Internet of Things and Internet technology to make street lamps become the information collection terminal and convenient service terminal of smart cities, and an important entry point of smart cities.



Functions


Smart lighting


Smart Security


Smart network



Smart Advertising


Smart Broadcasting


SOS

Specifications

Display screen	
Screen size	10.1 inch(149*228*5mm)
Screen type	LCD,TFT
Screen resolution	1280*800P
Screen brightness	≦800cd/㎡(Automatically adjust brightness)

Camera	
Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Zoom/Fix	Zoom, 20x optical zoom
PTZ function	360°unlimited rotation，85°vertically
Size	6 inchs，304*210mm

Others	
Mic	9745，-30dB
LED lighting source	9-54V，400W(Max)
Built-in TF card	64G（256G Max）
Built-in speaker	4Ω/15W/φ105mm
USB charging	5V/9V/12V，24W（Max），supportfast charging

More Pole Design







LED display module



Product description

Smart LED display module adopts modular structure design, integrating 4G/5G communication module, HD AI camera module, LED advertising screen module, security alarm module, environmental monitoring module, and smart phone charging module. it is extremely easy to install.

Specifications

LED（P3）display specifications

Screen size	768*384mm	960*768mm	1152*576mm	1344*768mm
	Single-sided screen /Double-sided screen			
Screen type	LED screen, full color, P3			
Screen resolution	128*256P	256*320P	192*384P	256*448P
View angle	120 / 120			
Brightness	≧5000cd/㎡			
Brightness adjustment	Adjustable brightness via software			
Housing material	Cold rolled plate, hot dip galvanized inside and outside			
Fixing method	Hoop, or self-design			

LED（P4）display specifications

Screen size	640*320mm	960*640mm	1440*960mm
	Single-sided screen /Double-sided screen		
Screen type	LED screen, full color, P4		
Screen resolution	80*160P	160*240P	240*360P
View angle	120 / 120		
Brightness	≧5000cd/㎡		
Brightness adjustment	Adjustable brightness via software		
Housing material	Cold rolled plate, hot dip galvanized inside and outside		
Fixing method	Hoop, or self-design		
Weight	0.4kg*4=1.6kg	0.4kg*12=4.8kg	0.4kg*12=4.8kg

Camera specifications

Pixel	3MP
Sensor	1/2.8"CMOS
Resolution	1980*1080P
Focal length	4.72-94.4mm
View angle	≤70°
Monitor distance	0-200m(daytime)
Zoom/Fix	20x optical zoom
Size	6 inchs，304*210mm
PTZ	360°unlimited rotation
	85°vertically

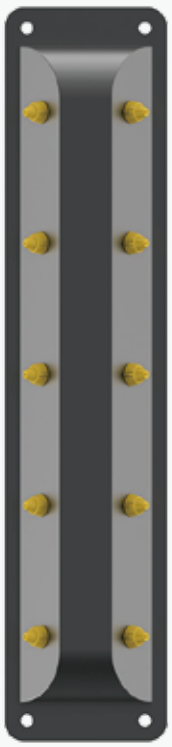
External interface

LED lighting interface, RGB colorful light interface, mobile phone USB charging interface, warning flashing light interface, integrated environmental sensor interface, speaker interface, pickup interface.

LED display module

Product description

The spray dedusting module is designed with a modular structure, which can be easily connected to the smart light pole. The spray atomization can reduce the fine dust in the air and increase the air humidity. The customer can choose this module according to the environmental needs.



Specifications

Voltage/power	12V，50W(Max)
Housing materia	Cold rolled plate, hot dip galvanized inside and outside
Weight	7Kg
Size	720*140*146mm
Volume of spray	4L / min

Visual SOS system

Product description

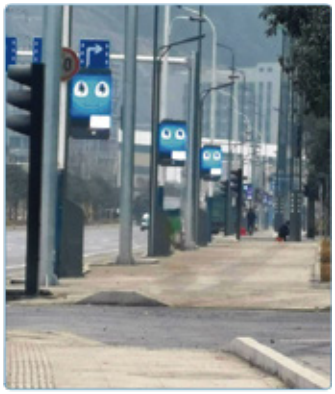
The visual SOS system module adopts a modular structure design, which can be easily connected to the smart light pole. It has an emergency alarm, visual intercom, and can be connected to the public security system for remote real-time communication.



Specifications

Voltage/power	12V，7W(Max)
Housing materia	Cold rolled plate, hot dip galvanized inside and outside
Weight	2.3Kg
Size	220*100*54mm
Volume of spray	3MP
Built-in speaker	8Ω，3W
Mic	9745，-30dB















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