ROLEDS

Smart Pole
Modular Smart Pole

SMART LIGHT POLE

MODULAR SMART POLE

The ROLEDS Modular Smart Pole moves away from traditional fixed designs by adopting an innovative modular approach with customizable, segmented structures. This flexibility allows for the selection of functional modules tailored to various applications. The smart pole supports a variety of smart equipment mounts, including lighting, security cameras, IP broadcasts, emergency calls, wireless chargers, solar panels, Wi-Fi, and more— all integrated into a standardized modular system. Modules are connected using a "mortise and tenon joint" structure, ensuring both a cohesive appearance and structural stability.

This design allows for easy customization, enabling the free combination or replacement of modules to meet specific project requirements. Whether for integrating smart equipment or adapting the structure, the modular system delivers both functionality and aesthetic consistency.

Intelligent lighting:
support a variety of light distribution mode

Atmosphere light:
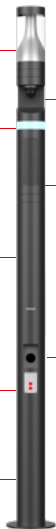support a variety of color customization

WIFI:
Mobile wifi network access

Emergency call:
emergency call,
visual two-way intercom

Intelligent electrical module:
intelligent power supply and network transmission

Monitor:
support monitoring area intrusion, fence crossing, item leaving and moving, rapid movement,parking detection; personnel gathering, etc

IP broadcast:
support background music playback, directional broadcast

Wireless charging:
mobile phones wireless charging

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Lighting module

Module size: φ 219 * 480
Power: 20W-50W
Color temperature: 3000K-5000K
Light distribution 1: PC cover soft light illumination
Light distribution 2: coaxial lens with reflector

Monitoring module

Size: φ 219 * 340 (Min)
Power: 15W
Power supply: POE, DC12V
A 2-inch 4 million intelligent network ball machine
Protection level: IP66

AP module

Module size: φ 219 * 480 (Min);
Power: 15W
Power supply: POE, 12V-53.5VDC power supply;
WIFI:2.4G/5G Dual-frequency, 1900M
Protection level: IP65;

Broadcast module

Module size: φ 219 * 500 (Min)
Power: 30W, 40W
Power supply: DC24V
IP broadcast: Support for audio format
MP3 / WMA / FLAC / AAC / WAV

Photovoltaic module

Module size: φ 219 * 1200 (min)
Power: 120 WP, 150 WP
Flexible solar photovoltaic modules, with a conversion rate of 15%
Height of 1.5 m, 1.2 m is optional

Projection light

Module size: φ 219 * 480 (min)
Power: 35W
Projection light / pattern light module, single pattern piece
Protection level: IP65

Flood light

Module size: φ 219 * 480 (min)
Power: 18-24W
Power supply: DC24V, AC220V
Flood light module
Select high light efficiency LED, with light transmittance of 94% super white glass, to achieve long distance accurate projection.
Protection level: IP66

Module connector

Atmosphere light module

Module size: φ 219 * 108 + φ 219 * 79
The two functional modules are fixed adjacent by the module connection component jacking device, the functional module and the module connection component for special treatment structure waterproof design, and the protection level reaches IP65;Expsible atmosphere light.

Charging pile
Alarming
Mobile phone charging

Module size: φ 219 * 1200 (min)
The following customization is supported:
1. Emergency alarm: built-in installation, built-in 1080P high-definition, ultra-wide Angle camera, diagonal field Angle of 170, single key call, full-duplex intercom, hands-free call.
2. Mobile phone charging: support 5V2A wireless charging
3. AC charging pile: input 220VAC, output 32A, 7KW, support card swiping, code scanning, embedded installation

Modular Smart Pole Configurations

Smart devices can be customized according to the project needs, such as projection lights, flexible solar panels, LED display screens, etc

	TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V	TYPE VI
Light pole height	3m-6m available					
Smart Lighting	360°					
Monitor	√	√	√	—	—	—
Atmosphere Light	√	√	—	√	—	√
IP broadcast	√	—	√	—	—	—
Wireless charging	√	—	√	—	—	—
Emergency call	√	—	√	—	—	√
Solar energy	—	√	—	—	√	—
Flood light	—	—	—	√	—	—
Projection light	—	—	—	—	√	—
LED screen	—	—	—	—	—	√

TYPY I TYPY II TYPYIII TYPY IV TYPY V TYPY VI

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