

LL01

# SMART GULLOP Series COLUMN LIGHTING



▲ LIGHT

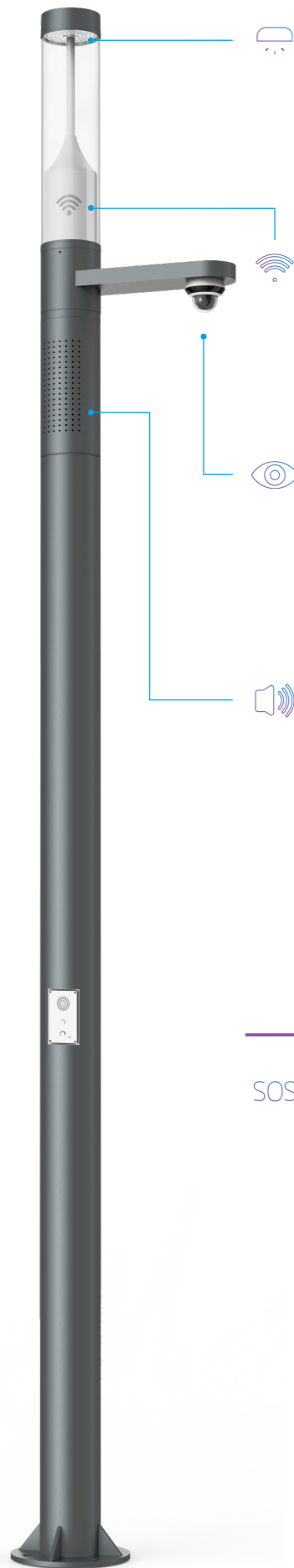
▲ LIGHT+CAMERA

▲ LIGHT+SPEAKER

▲ LIGHT+WIFI

▲ LIGHT+EV CHARGING

▲ SOLAR LIGHTING



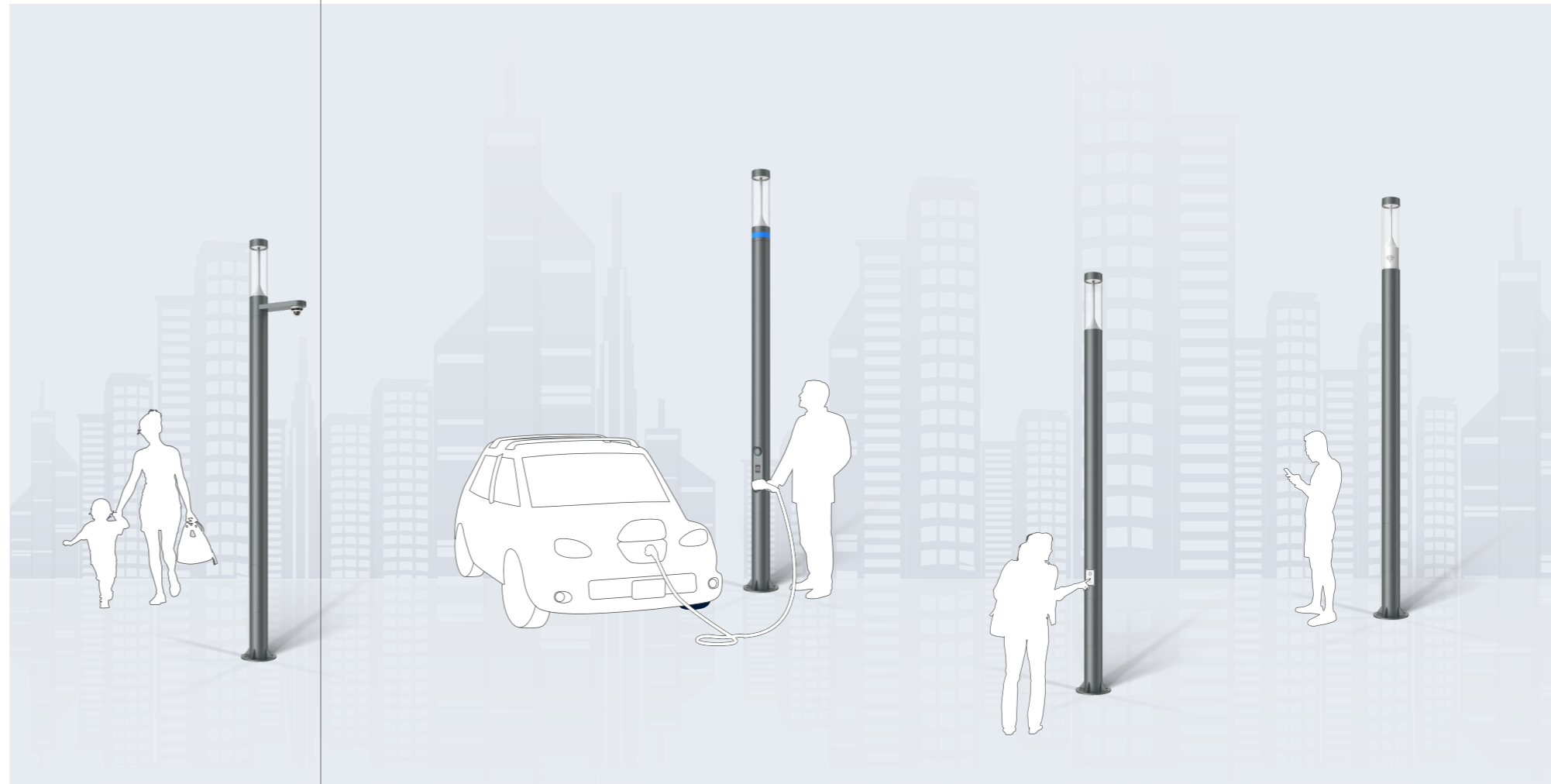
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**INTELLIGENT LED MODULE 50W**  
Warm or neutral white LEDs  
Optional internal diffuser or external diffuse protector for enhanced visual comfort
- 

**WIRELESS INTERNET**  
Providing 4G / 5G capacity and coverage  
Wireless fibre communication network for smart city applications
- 

**SAFETY CAMERA**  
Professional camera networks  
Integrated 360-degree video CCTV solution
- 

**LOUDSPEAKER**  
Professional sound system for public service announcements, warnings and music



SOS

**SOS**

One-touch system to contact operators and/or to trigger panic response scenarios



电源插座

**POWER SUPPLY**

Auxiliary power source  
Integrated fuse



**EV CHARGING**

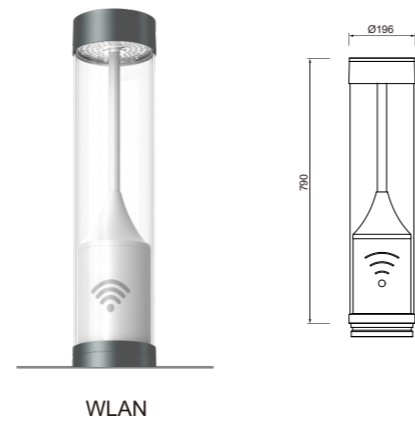
Professional charging station  
Safety locking during charging



WLAN 

**Professional and Secure  
Wireless Network**

- Available in a 360° lighting module or in a dedicated module
- Multiple concurrent users per access point
- Stable connections at higher data rates
- Dividable bandwidth: e.g. to assign a dedicated part to city operators and a restricted bandwidth for the general public



WLAN

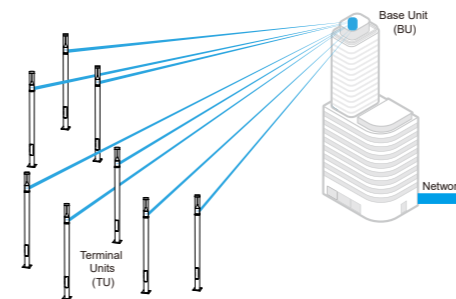


WIRELESS BACKHAUL 

**Wireless Fibre Communication  
Network For Smart City Applications**

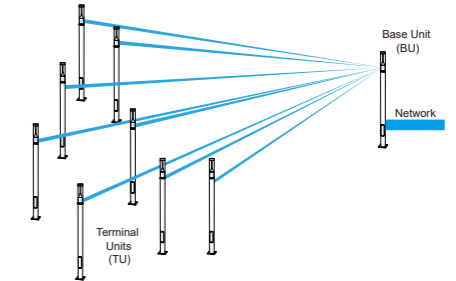
- Wireless extended fibre connections to and from a pole
- The speed of fibre (up to 2.3Gbps), the flexibility of wireless
- Easy street level deployment
- Reliable, virtually interference-free operations
- Connect up to 8 Shuffles from one Base Unit
- 400m auto-aligned range
- AES encryption
- Operates in 60GHz V band

**1 Building to GULLOP (star mode)**



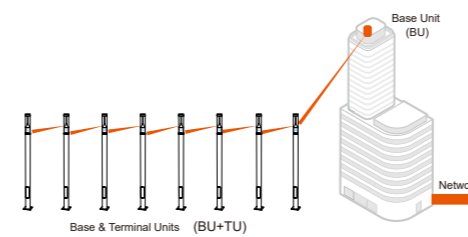
The Base Unit is mounted outdoors, on the side of a building or on a rooftop. It connects to 8 GULLOP (Terminal Units) installed within a range of 400 metres max.

**2 GULLOP to GULLOP (star mode)**



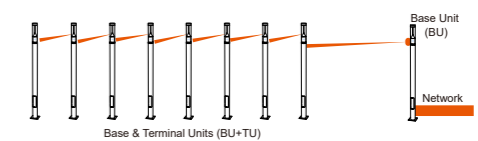
The Base Unit is integrated in a SHUFFLE. This one connects to 8 GULLOP Terminal Units) installed within a range of 400 metres max.

**3 Building to GULLOP (linear mode)**



The Base Unit is mounted outdoors, on the side of a building or on a rooftop. It connects to one SHUFFLE (Base and Terminal Units) that itself connects to another SHUFFLE having the same hardware (BU+TU) and so on, in a daisy chain layout. The spacing between two SHUFFLEs can be up to 400 metres (max).

**4 GULLOP to GULLOP (linear mode)**



The Base Unit is integrated in a SHUFFLE. It connects to one SHUFFLE (Base and Terminal Units) that itself connects to another SHUFFLE having the same hardware (BU+TU) and so on, in a daisy chain layout. The spacing between two SHUFFLEs can be up to 400 metres (max).

# GULLOP Series Smart Lighting

## EV CHARGING

### EV Charger



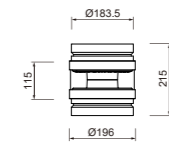
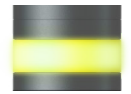
- Maximised power capacity - intelligent software ensures the optimum amount of charge to each vehicle
- Flexible payment/usage methods including plug & charge, mobile app or RFID controlled charging
- Partnership with any OCPP compliant EV software providers to deliver turnkey EV charging solutions

## Light Ring

### Light Ring

Signage / Beautification (identity) /Creation of  
ambiance

- Static red, green, yellow variants
- 1 static colours
- RGB for colour changing effects



### Charge Status Indication

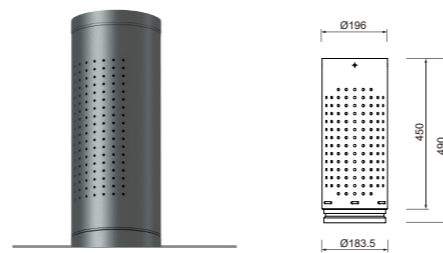
The change of color can indicate whether the charging pile is in a charging state during use or a charging completion state.

# GULLOP Series Smart Lighting

## SPEAKER

### Professional Sound System For Public Service Announcements, Warnings And Music

- Professional integrated design, good sealing
- Support the broadcast system to upgrade the remote firmware of the terminal, reducing the work intensity of maintenance personnel
- Perfect sound - up to 25W power output
- Weatherproof / adapted to indoor and outdoor applications
- Digital connected network speaker



数字扬声器  
Digital Speaker

频率范围 Frequency range	130 - 16000Hz
音频模式 Audio Format	16位CD音质 16-bit CD sound quality
工作温度 Operating Temperature	-20℃~60℃
IP等级 IP Level	IP54
功耗 Power Supply	≤30W

## HORN

### Warning or alarm with a powerful electronic tone

- Warning or alert to the nearby population
- Supports voice-over IP
- Multi-tone up to 105dB
- Can be triggered remotely
- Can be integrated into a global warning system
- Can be linked to SHUFFLE Intercom



## INTERCOM SOS

### One-touch system to contact operators and/or to trigger panic response scenarios

- RSupport offline intercom (initiating and receiving) without server.
- Equipped with 1080P HD camera, power input interface, alarm input and output, recording output and other ports.
- Supports hands-free calls, broadcast reception, and live monitoring.

**DIMON**  
TECHNOLOGY



Intercom with cameras

Camera	Fixed lens 1080P
Frequency Response	20Hz-18 kHz
S/N(Broadcast-Speaker)	≥81dB
Power consumption	≤ 4W
Peak Transmit Power	IPX5



# GULLOP Series Smart Lighting

CCTV - 360° 



QuadView

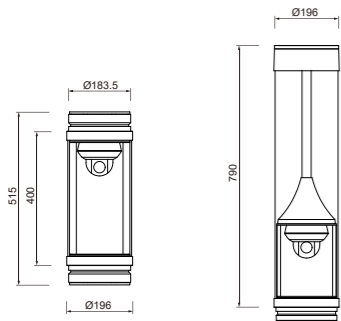


Universal camera

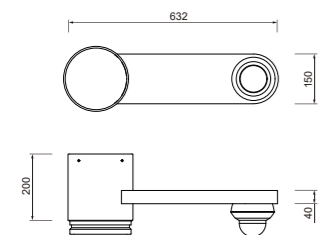
Integrated 360-degree video CCTV solution

Integrated hanging bracket for cameras

- High quality imaging with 2 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- 10x optical zoom and 16x digital zoom provide close up views over an expansive area
- Up to 50 m IR range ensures safety at night
- Supports face capture, detects, captures, grades and selects faces in motion, and outputs the best face picture
- Water and dust resistant (IP66)



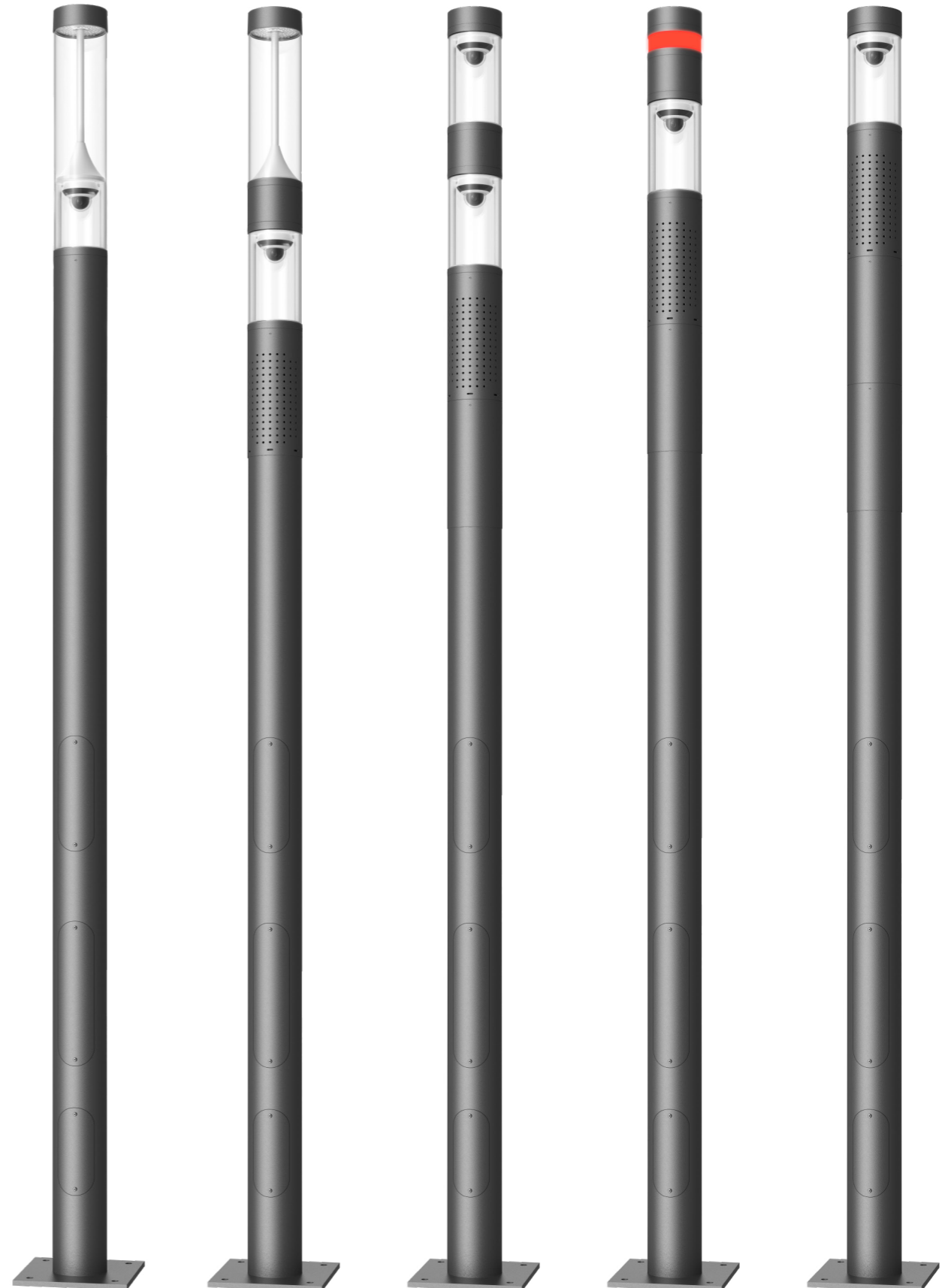
360°CCTV



CCTV



More in Family

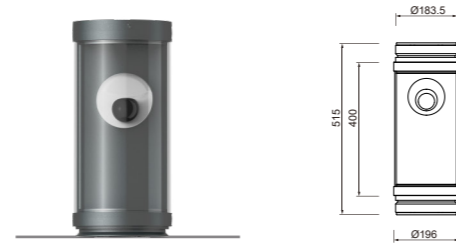


## GULLOP Series Smart Lighting

CCTV - 180° 

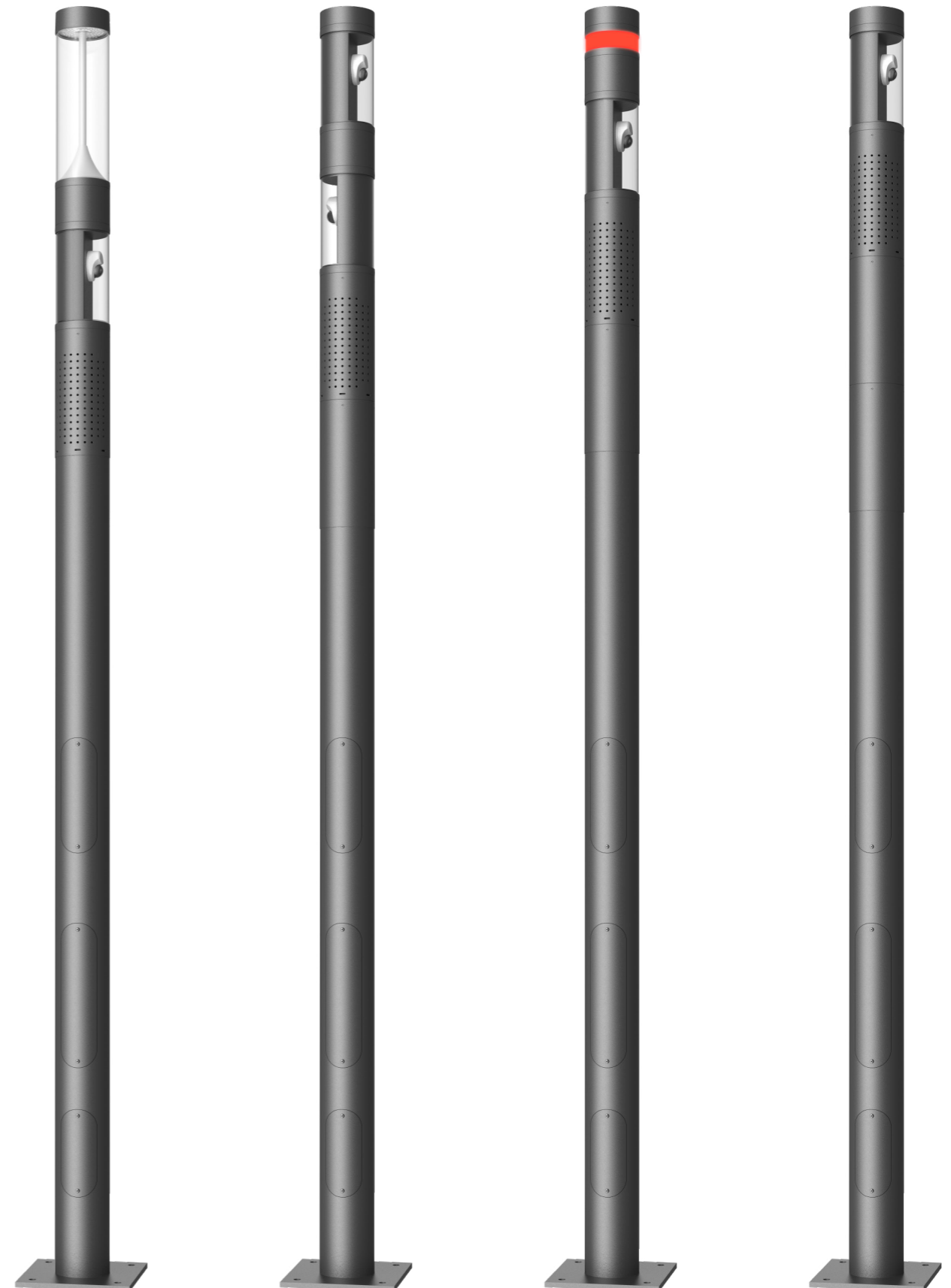
### For professional camera networks

- Resolution: full HD (1920 x 1080)
- Outstanding low light performance in true colour with low noise for night time applications
- Built-in IR LED to produce a clear monochrome image in 0 lux conditions with 15m(49 feet) irradiation distance
- Event triggering: motion detection, video analytics, tampering, etc.
- New "Smart Facial Coding" adds more bandwidth reduction for ID camera applications mainly capturing faces
- Environmental durability: IP66, IK10



智能功能 Smart features	Yes
安全功能 Security features	全加密
红外距离 IR	15m

More in Family





## Modular Solar Column Lighting



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- Die-casting aluminium body, PC transparent diffuser tube. Efficient monocrystalline silicon solar panels.
- Comfort using modular optical lens, multiple optical options. Q355
- steel pole, after galvanized process, then by anti-ultraviolet pure polyester powder painting.
- No photo-biological risk,(no risk linked to infrared,blue light and UV radiation) in accordance with EN 62471:2008.
- With LiFePO<sub>4</sub> battery which usually apply for electric bus. Surface anti-ultraviolet pure polyester powder painting, Corrosion resistance can be more than 1000 hours.
- Integrated package, convenient transportation.
- All external screws are made of 304 stainless steel.
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### Remote control system & Smart intelligent system available upon request



Energy saving with remote control system



Network for smart intelligent system



Remote control



PV Module  
95W

PV Module  
160W

