

Sentinel

THE SMART POLE

URBIO

SENTINEL Smart Pole is a multifunctional urban infrastructure element designed to integrate lighting, connectivity, safety, and digital services into a single, modular structure. It enhances public spaces through 360° illumination, smart control, and integrated urban technologies, supporting modern Smart City deployments.

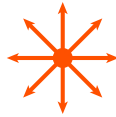
KEY BENEFITS



**Four-sided
360° LED
illumination**



**Decorative
LED patterns
integrated into
the structure**



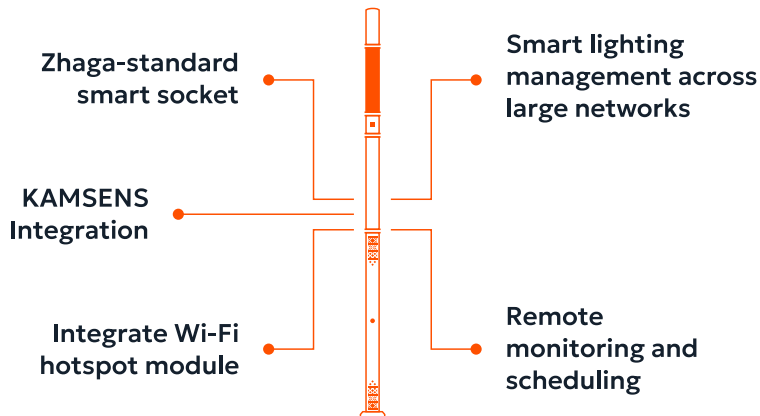
**Uniform light
distribution for
enhanced safety**



**Low-power,
high-efficiency
LED engine**



SMART CONTROL & CONNECTIVITY

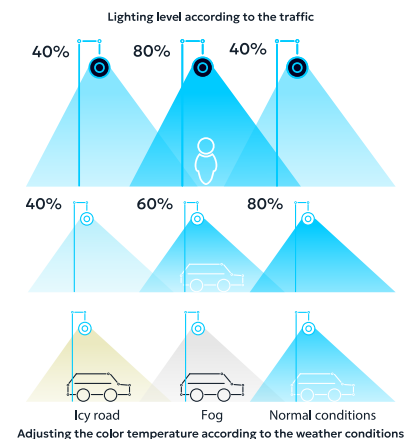
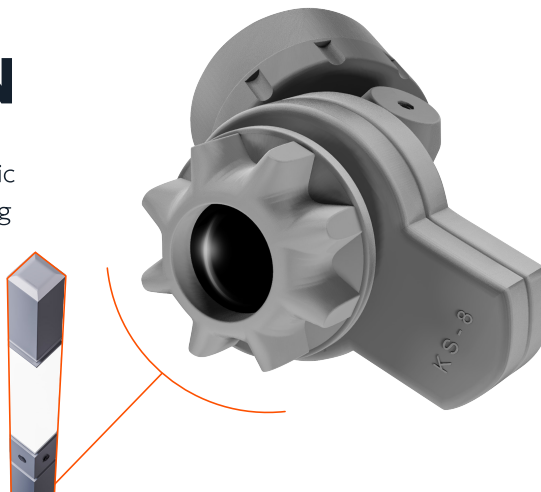


SAFETY & SECURITY

- Dual CCTV cameras mounted on opposite sides
- Continuous day & night monitoring
- Built-in emergency alarm button
- Integrated speakers for announcements and alerts

KAMSENS INTERGRATION

KAMSENS® analyzes weather and traffic in real time and instantly adjusts lighting for safety and efficiency. Connected to the Lighting AI platform, it adapts brightness and color temperature automatically - without requiring any additional infrastructure.



TECHNICAL
SPECIFICATIONS

GENERAL

Product Type: Smart multifunctional lighting pole
Application: Streets, plazas, parks, pedestrian areas, smart city infrastructure
Structure: Modular, multifunctional design

CONNECTIVITY & SMART FEATURES

2 integrated cameras
Integrated speaker modules
Emergency button with alert triggering
Wi-Fi hotspot module
Zhaga-compatible controller

DIMENSIONS

Total height: 6000 mm
Lower body: 2729 mm
Mid-section: 1365 mm
Upper lighting section: 952 mm + 530 mm
Base footprint: 345 × 345 mm

LIGHTING SYSTEM

360° four-sided LED
High-efficiency LED modules
Control interface: Zhaga
Decorative lighting: RGB LED sections
Adjustable for city branding or ambiance

MATERIALS & CONSTRUCTION

Material: High-grade aluminum
Finish: Durable outdoor coating
Corrosion resistance: Yes
Designed for: Extreme temperatures, Demanding outdoor environments
Maintenance: Integrated access door

ELECTRICAL & POWER

High-voltage socket: 2 kW
Wireless charging: Integrated mobile charging pad
Power distribution: Internal protected wiring
Energy efficiency: Optimized low-power operation

Designed for Smart City integration
Compatible with Zhaga ecosystem
Suitable for public urban infrastructure
IP-rated electronic compartments

COMPLIANCE &
STANDARDS

