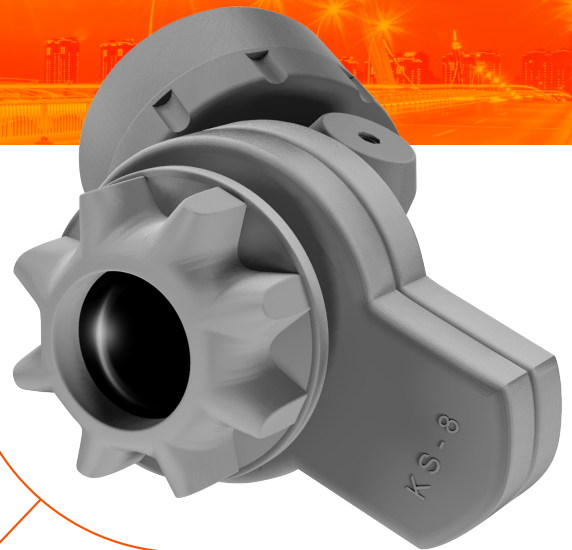


**TOTAL CONTROL THROUGH
REAL-TIME ENVIRONMENTAL DATA**

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.

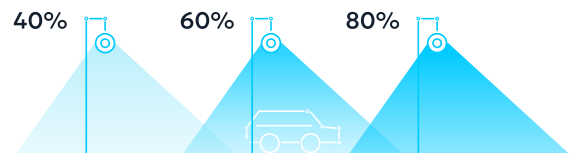
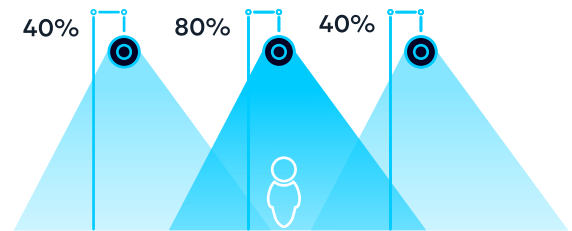
**FEATURES &
BENEFITS**



Real-Time Lighting Adjustment
<ul style="list-style-type: none"> • Dynamic lighting level based on traffic density • Automatic brightness increase for vehicles or pedestrian presence • Adaptive responses for fog, icy conditions, and normal weather
Adaptive Color Temperature Control
<ul style="list-style-type: none"> • Warmer color temperature in snow/ice conditions • Neutral to cool color temperature for fog or clear weather • Automatic or manual override through the Lighting AI interface
Advanced Environmental Monitoring
<ul style="list-style-type: none"> • Localized detection of road conditions • Micro-climate analysis at lighting point level • Supports AI-driven predictions and automation
Instant Integration with Lighting AI
<ul style="list-style-type: none"> • Full compatibility with Urbio's telemanagement ecosystem • Secure data transmission • Enables rule-based automation and alerts
Reliability Proven in the Field
<ul style="list-style-type: none"> • Validated in both urban and rural environments • Over 200 implemented projects in Romania • High stability and long-term operational performance

**HOW KAMSENS
WORKS**

Lighting level according to the traffic



Adjusting the color temperature according to the weather conditions



**USE
CASES**

**IMPACT
METRICS**

- Smart public lighting • Municipalities implementing AI-based lighting management
- Roads with variable traffic flow • Smart City platforms requiring environmental feedback
- High-risk climate zones (fog, ice, rural roads) • Safety-critical pedestrian and vehicle zones

SAFETY BOOST
More visibility in dangerous conditions (ice, fog, low traffic)

ENERGY OPTIMIZATION
Lighting levels reduced during low activity periods

OPERATIONAL EFFICIENCY
Less manual intervention due to automated adjustments

COVERAGE
Works for each lighting point independently

RELIABILITY
Hundreds of real deployments in mixed environments