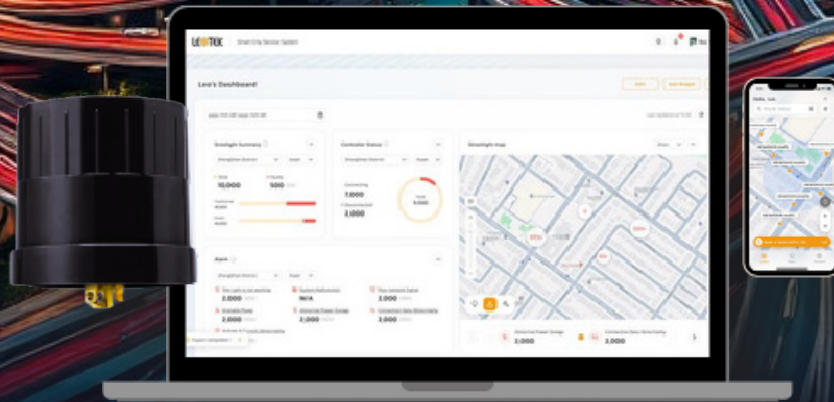




LEOLink ILS™

Intelligent Lighting System for Tomorrow's
Smart and Sustainable Cities



Transform your city's traditional streetlighting and off roadway lighting infrastructure into a responsive, AI-driven network with real-time control, predictive maintenance, and sustainable scalability.

Intelligently Illuminate City Streets and Roadways

Smart. Scalable. Effortless.

LEOLink ILS is the next evolution in street lighting, integrating AI and IoT to transform a city's traditional outdoor lighting infrastructure into a smart, adaptive network. It empowers municipalities and utilities with real-time control, predictive maintenance, and rapid scalability, all with unmatched simplicity.

Integrating LEOTEK's AI-driven centralized management platform (LEOLink RenAI) with intelligent streetlight controllers, LEOLink ILS provides 24x7 visibility into the status and performance of streetlights enabling efficient energy use, real-time fault detection, and predictive maintenance across city-wide lighting networks. Easy "plug-and-play" deployment and scalability support users in achieving operational excellence, public safety, and long-term sustainability. With LEOLink ILS, cities are creating the backbone of a future-ready smart city.

KEY FUNCTIONS

Centralized, Remote Management

Gain complete control of your city's smart lighting infrastructure from a single, intuitive platform.

AI-Powered Predictive Maintenance

Detect and address faults before they occur, minimizing downtime and maintenance costs.

Energy Efficiency & Cost Savings

Optimize energy usage with intelligent scheduling and dimming, reducing operational expenses.

Instant Response to Anomalies

Automatically identify and respond to abnormal lighting behavior in real-time.

Actionable Insights Through Data Visualization

Monitor asset performance and energy trends with clear, interactive dashboards.

LEOLink ILS is more than streetlighting; it's the foundation of a smarter, safer, and more sustainable city.



ILS APPLICATIONS



City Roadways

Enhance traffic and pedestrian safety with adaptive dimming, real-time fault detection, and intelligent lighting schedules that align with city dynamics and energy usage and sustainability goals.



Parks & Public Squares

Create inviting, energy-efficient spaces for community gatherings with lighting that balances visibility, comfort, and reduced light pollution.



Industrial Parks

Ensure nighttime safety and security with consistent illumination and centralized lighting control tailored to industrial needs.



Highways

Improve driver visibility and minimize accident risks with high-lumen output and real-time failure response that eliminates dark zones.



Intersections

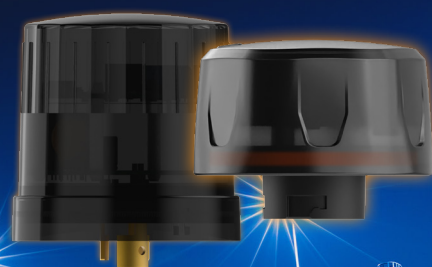
Improve safety at critical roadway junctions through AI-enhanced lighting that adapts to real-time traffic and pedestrian movement.



Lighting Maintenance and Repair

Utility and city maintenance and operations teams move from reactive to proactive, identifying and resolving outages faster resulting in less down (dark) time and lower TCO

LEOLink Controllers



KEY FEATURES



Self-Monitoring & Fault Detection

The controller continuously monitors the lighting fixture operational status, identifying power outages, lamp failures, and abnormal energy patterns for fast diagnostics and maintenance in addition to self-monitoring its own operational status.



Ultra-High Connectivity

Dual-mode cellular communication over the world's most reliable and secure carriers ensures a 99.5% connection success rate, delivering reliable and consistent data transmission even in challenging environments.



Built-In Surge Protection

Advanced surge protection against lightning and voltage spikes safeguards critical streetlight infrastructure.



AI-Driven Adaptive Dimming

Participates with LEO Link RenAI to enable intelligent dimming strategies, including human-centric lighting adjustments based on real-time traffic, weather, and pedestrian activity.

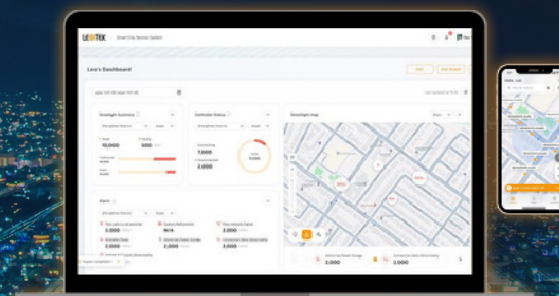


Predictive Maintenance & Analytics

Advanced failure analysis and predictive diagnostics move cities from reactive to preventative maintenance strategies that reduce downtime and operational costs.

LEOLink RenAI™

Central Management System



KEY FEATURES



Asset Management

Collect and track roadway infrastructure asset information such as streetlight fixtures, poles and controllers, to drive operational efficiencies across from field maintenance to life cycle management.



Remote Control

Remotely switch lights ON/OFF and adjust brightness via an intuitive user interface.



Scheduled Dimming

Automatically adjusts brightness levels based on ambient light and pre-set schedules.



Fault Detection & Notification

Monitor streetlight health and status in real time to detect and receive instant fault alerts.



Energy Consumption Management

Track usage, identify trends, and forecast energy needs for optimal efficiency.



Data Analysis & Reporting

Access historical insights, visualize data, and generate reports for informed decision-making.



LiSA (LEOTEK intelligent Service Advisor)

LiSA, our AI-powered assistant, is available 24/7 to streamline operations, quickly answering questions, generating charts and tables, and assisting with troubleshooting to lighten your team's workload.

How it Works



Controller/Fixtures	NB01 Plus	EB01
 KarbonCobra	X	X
 VersaTEK Flood	X	Future
 VersaTEK Off Roadway	X	
 VersaTEK Site & Area	X	
 GreenCobra	X	
 Arieta	X	
 ILuzTEK	X	
 Post Top Colonial	X	
 Eseta¹		
 SafeGuardUTL	X	
 ComfortView	X	
Non-LEOTEK Fixtures	X	

1 Limited to Eseta ES2
Fixtures with NB01 Plus require a controls-ready 5 or 7-pin NEMA connector
Not compatible with Current Selector



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