



Liveable Cities

Division of **LED ROADWAY LIGHTING**



NXT

NXT
LITE

SLIQ



State-of-the-art controls, and analytics help to empower municipalities to leverage their street lighting infrastructure to gain valuable new insights about their community and save energy.

Liveable Cities is a division of LED Roadway Lighting Ltd.

Watch now





Liveable Cities

Division of **LED ROADWAY LIGHTING**



Welcome to our 2023 catalog. Inside, you will find our entire range of services and products.

This is an interactive PDF. This means you are going to find information on almost every page such as links to our website, videos and more so click away and feel free to wander on each of the pages.

Each logo and section will have buttons that will help you navigate through the document.

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Division of **LED** ROADWAY LIGHTING



Vast range of products



In-house manufacturing



Projects in over 65+ countries



Applications



WHAT WE CAN DO FOR YOU

Liveable Cities supports our clients from project concept to deployment with a variety of customer-focused solutions. We can plan and manage your project implementation, capitalize subscriptions to turn OPEX into CAPEX, provide lighting design support and offer other à-la-carte services

Our post deployment services team can support your smart city deployment after installation is completed with ongoing project management, active system monitoring, and data analysis.



SECURITY



ROAD SAFETY



AIR QUALITY



EFFICIENCY



NXT™

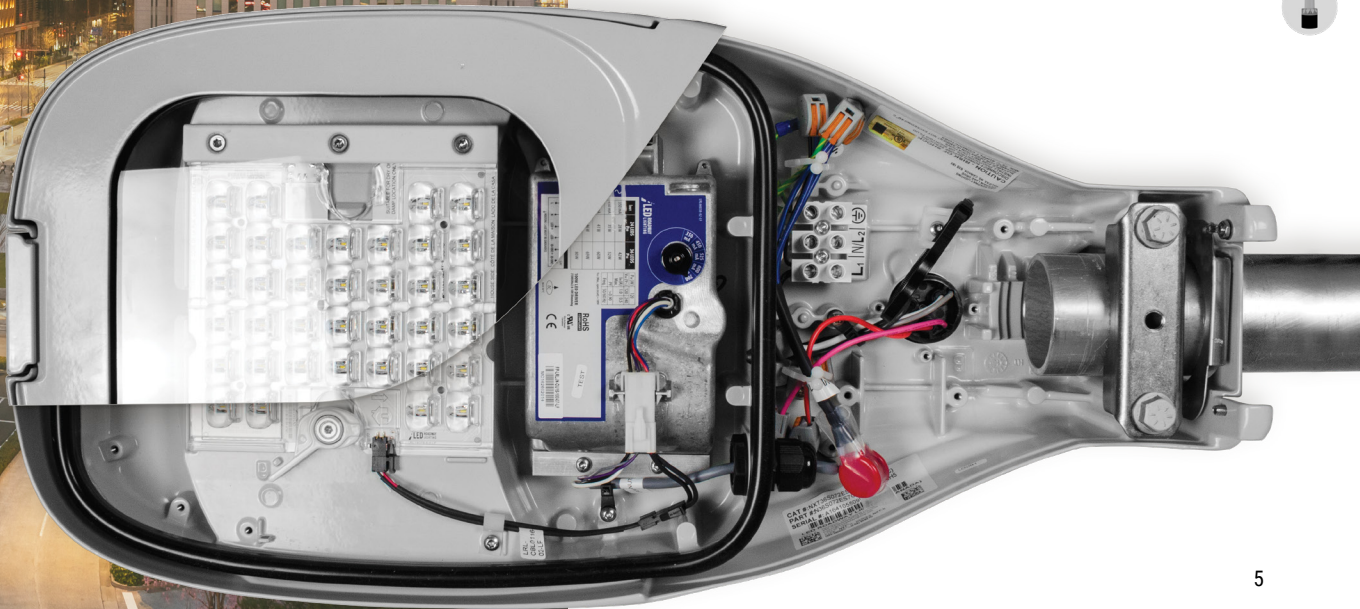


Features



Sizes & Configuration

The modular design of the NXT luminaire allows users to easily upgrade or replace light engines and power supplies without tools in less than one minute.



Features



Future Proof

The NXT provides high-end street lighting to lower energy costs and maximizes service life. The modular design of the NXT luminaire allows users to easily upgrade or replace light engines and power supplies without tools in less than one minute.

NXT is ideal for roadway/street lighting, parking areas, bridges, and general outdoor area lighting applications.



Easy replacement of light engines and power supplies without tools



Prolonged life of lighting infrastructure



7-pin ANSI C136.41 receptacle



Optional house-side shield



Post-top mounting bracket



Colour temperatures offered are 4000K (standard), and 3000K or 5000K (optional)



Sizes & Configuration



NXT - C

12 LEDs

Compact sized luminaire body

525-1250 mA drive currents

4000K CCT (Standard)

3000K & 5000K CCT (Optional)



NXT - S

12,24,36 LEDs

Small sized luminaire body

350 -700 mA drive currents

4000K CCT (Standard)

3000K & 5000K CCT (Optional)



NXT - M

48, 60, 72 LEDs

Medium sized luminaire body

350-700 mA drive currents

4000K CCT (Standard)

3000K & 5000K CCT (Optional)



NXT^{LITE}

NXT-LITE incorporates award-winning performance, reliability, and future-proof features that utilities and municipalities have come to expect.



Features



Sizes & Configuration



NXT

NXT
LITE

SLIQ



Features



High Performance

NXT-LITE is utility friendly and designed for roadway applications requiring up to a 400W high-pressure sodium replacement.



Tool-less, replaceable light engine and a door-mounted power supply



Lightweight, easy to install



7-pin ANSI C136.41 receptacle



Optional house-side shield



Post-top mounting bracket



Colour temperatures offered are 4000K (standard) or 3000K (optional)



Luminaires are available with multiple drive currents and an optional DALI driver



Sizes & Configuration



NXT - LITE S

16 LEDs

Small sized luminaire body

175-600 mA drive currents

4000K CCT (Standard)

3000K CCT (Optional)



NXT - LITE M

60 LEDs

Medium sized luminaire body

200-500 mA drive currents

4000K CCT (Standard)

3000K CCT (Optional)



SLiQ



Features

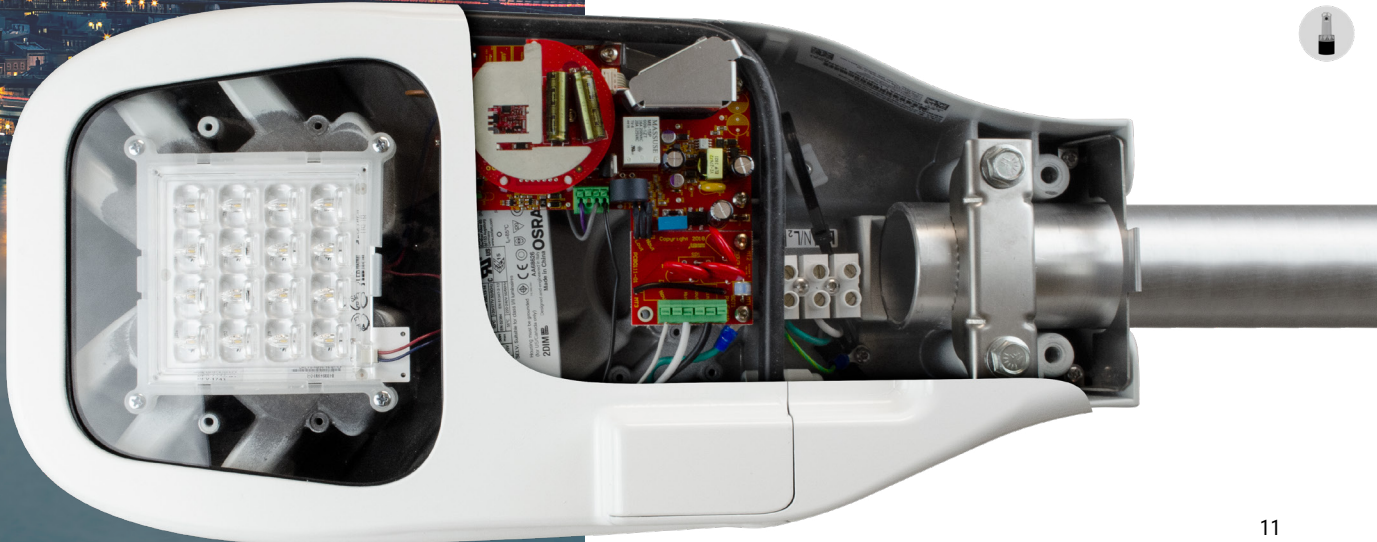


Sizes



Configuration

SLiQ is a state-of-the-art LED luminaire, which integrates high-end lighting capabilities with the latest adaptive lighting controls and sensing capabilities in one system.



Features



Integrated Smart Light

SLiQ provides a wide variety of light distributions. The 20+ optical distributions available ensure optimal coverage of light and visibility on the road. SLiQ is also designed with flat glass to reduce light depreciation from dust and grime build-up.



SLiQ's unique integrated controls increase reliability and has a lower optimized cost



Environmental exposure from traditional top-mounted controllers is no longer an issue



Optional house-side shield



Post-top mounting bracket



Colour temperatures offered are 4000K (standard) or 3000K (optional)



2 or 4-bolt fitter



Sizes



SLIQ - S

16 LEDs

Small sized luminaire body

175-600 mA drive currents

4000K CCT (Standard)

3000K CCT (Optional)



SLIQ - M

60 LEDs

Medium sized luminaire body

200-500 mA drive currents

4000K CCT (Standard)

3000K CCT (Optional)



Configuration



NEMA Top Receptacle



ZHAGA Top Receptacle



Solid Top (No Receptacle)



NEMA Bottom Receptacle



ZHAGA Bottom Receptacle



Solid Bottom (No Receptacle)



SLX Sensor Connector

SLiQ provides out of the box performance in many configurations

	B SERIES	C SERIES	T SERIES	D SERIES
0-10V or DALI	✓	✓	✓	✓
Flat Glass	✓	✓	✓	✓
20+ Light Distributions	✓	✓	✓	✓
+/- 10 Degrees Tilt Standard	✓	✓	✓	✓
Vertical/Horizontal Mount Option	✓	✓	✓	✓
Top - Solid/NEMA/ZHAGA	✓	✓	✓	✓
Bottom - Solid/NEMA/ZHAGA	✓	✓		✓
Internal Wireless Controls		✓	✓	✓
1% Energy Measurement		✓	✓	✓
Paired Single Asset Locating		✓	✓	✓
Internal Ambient Light Sensing		✓	✓	✓
Internal GPS Asset Locating		✓	✓	✓
Tool-less Sensor Platform Connector			✓	
Internal Safe Streets Speed Monitor				✓
Integrated Traffic Flow Monitoring				✓
Internal Lighting Planning Data				✓
Internal Targeted Enforcement Analytics				✓
Motion/Presence Based Lighting*				✓

* PRESENCE BASED LIGHTING CURRENTLY ONLY AVAILABLE ON LRL MESH NETWORK, AND NOT ALL DATA SETS WILL BE AVAILABLE FOR TRAFFIC ANALYSIS.



E-SERIES



E-Series is a new Network Lighting Controller (NLC) series, designed to provide long life, the ultimate in control, and maximize customer flexibility.

E-SERIES



Constant Lumen Output



GPS Asset Management



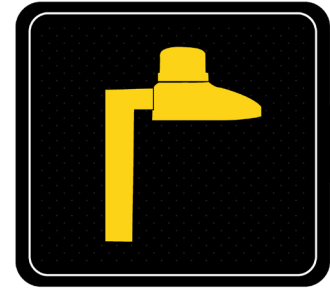
Energy Measurement



Flexible Scheduling & Dimming



Outage Monitoring



The E - Series controller provides:

- Asset management
- Maintenance
- Efficiency
- Optimized lighting

Applications

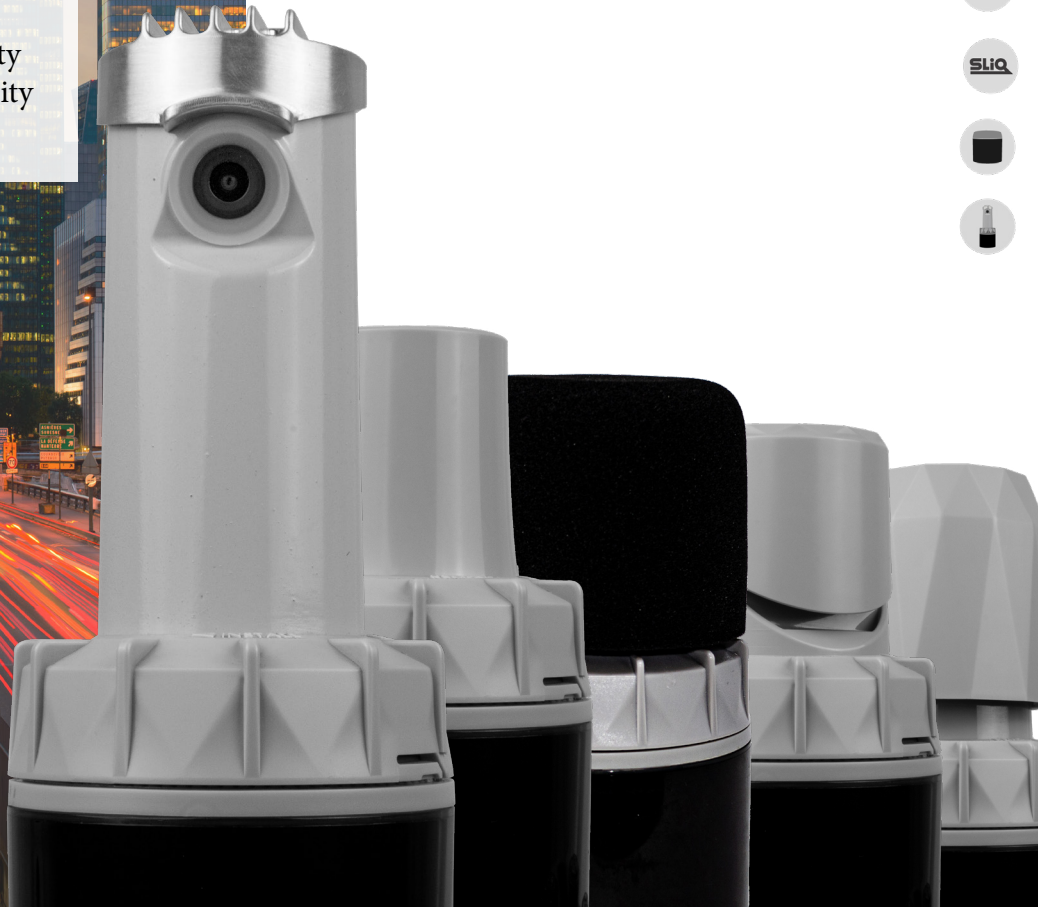
- Street lighting control



Smart City Sensors



SmartLinx (SLX) sensors offer the same benefits of a standard network lighting controller (NLC), with value-added sensors for road and community safety, utility asset protection, air quality monitoring and more.



Sensors

SLX - SPEED



SLX-SPEED is our solution for safety, a sensor that in real-time can detect how fast vehicles are going discreetly and effectively.

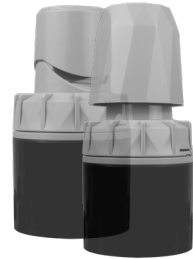
SLX - NOISE



SLX-NOISE is an ambient noise micro-sensor that can be deployed to measure Sound Pressure Level (SPL).

SLX - PARTICULATE

SLX - AIR



SLX-PARTICULATE and SLX-AIR utilize the latest state-of-the-art technology for data collection and reporting on air quality attributes.

SLX - VIDEO



SLX-VIDEO is our solution towards improved safety within a community through an easily installed and manageable streetlight accessory.

The Smartlinx micro-sensing platform is a new and innovative lighting control platform. Adding our sensors to your lighting network is your gateway to the Smart City.



SLX - SPEED



Speed Calming Program



Lighting Planning



Portable Plug & Play Design



Privacy Friendly



Multi-sensor Platform



Automated Reports



The speed sensor provides traditional speed metrics such as:

- Average speed
- 85th Percentile
- Over Speeding

Applications

- Road Safety Analysis
- Enforcement Planning
- Analyze Intervention Success
- Car Counting



NXT

NEXT LITE

SLIQ



SLX - NOISE



Automated Reports



Sound Pressure Level Measurement



Portable Plug & Play Design



Multi-sensor Platform



Optional Bird Spikes Available



The noise sensor provides sensing and reporting of the following noise levels:

- LEQ Lowest Sound Level
- LEQ Highest Sound Level
- LEQ Average Sound Level

Applications

- Port Noise Monitoring
- Construction Site Monitoring
- Rail & Light Rail Monitoring



SLX - PARTICULATE/AIR



Portable Plug & Play Design



Multi-sensor Platform



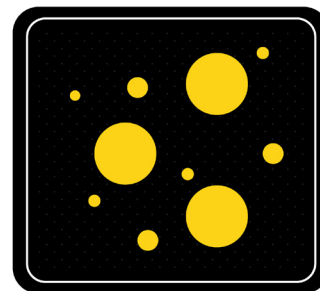
Automated Reports



Hyper- local Feature

SLX-PARTICULATE measures airborne particulates in the following sizes:

- PM 2.5
- PM 10



Applications

- Establish a Baseline
- Prioritize Investment
- Analyze Intervention Success

SLX-AIR can collect data for :

- NO₂
- SO₂
- O₃



SLX - VIDEO



Privacy Friendly Passive Video
Monitoring & Remote Video Retrieval



LTE Communications Integrated



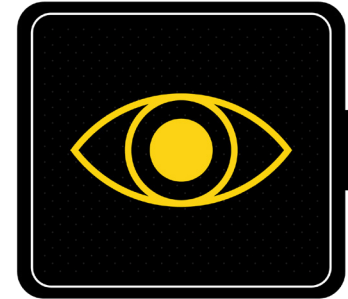
Live Streaming



Portable Plug & Play Design



Secure Cloud Video Storage



**Wide field of view, and flexible
video format for analytics.**

- Dual image sensor option
- Local on device video storage
- Preventative and post-incident investigation tool
- 1080p standard or 4k optional

Applications

- Traffic Counting
- Road & Street Monitoring
- Substation Monitoring



SMARTLINX

SmartLinX Central Management System (CMS) is a web-based portal and interface which gives you control of your street lighting assets and sensors.



ACCURATE DATA ON-DEMAND



CUSTOMIZABLE REPORTS



RELIABILITY & SECURITY



INTUITIVE USER INTERFACE



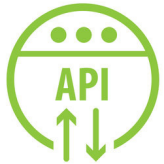
ABSOLUTE CONTROL



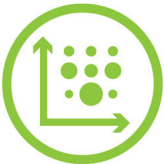
TALQ 2



AUTOMATION & ANALYTICS



ROBUST API



HEAT MAPS



AUTOMATIC FAILURE REPORTS



MAP-BASED VISUALIZATIONS



MAINTENANCE ROUTING



Our CMS software consists of many powerful and useful tools to reduce energy costs by an additional 15 - 30%. SmartLinX is currently in use by municipalities and utilities around the globe and is supported by the TALQ 2 smart lighting standard.

Long-term benefits:

- Carbon emission reduction & energy savings.
- Reduce maintenance costs & enable better asset management.
- Collect useful data and insights about grid performance & energy usage.
- Create a foundation for additional smart city applications.



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