Why invest in Smart Streetlights?

60% - 80% Energy Savings
Dimming streetlights with pre-defined schedule and smart sensors significantly cuts energy waste.

Predictive Maintenance
Proactive alerts / notifications for faults, alarms or outages optimise maintenance and substantially reduce operational costs.

Total Infrastructure Control
Connected streetlights enable remote monitoring, management and control of complete citywide infrastructure.
Why invest in Smart Streetlights?

Foundation for Smart City
Standardised interface and Open APIs support inter-connectivity with applications such as traffic lights, security systems, etc.

50% Lower Light Pollution
Dimming streetlights during off-peak hours or through motion sensors significantly cuts light pollution.

Improved Public Safety
Right light and right place and right time enhances citizens’ sense of safety.
Why invest in Smart Streetlights?

Address Climate Change
Fine-tuning lighting levels on need-basis dramatically reduces carbon emissions.

Protect Flora and Fauna
Autonomous dimming during off-peak hours lower lighting pollution and benefits local flora and fauna.

Benefits from Day One
Unlike other smart city solutions, deploying smart lighting deliver benefits from day one!
Who are we?

Specialist in Smart Outdoor Lighting

We enable cities to take full control of their Lighting Infrastructure based on Open Standards
Global presence: 100k+ connected streetlights, 650+ projects

Monitored by CityManager and supported by our Service Desk

Selected Projects
- Dortmund (DE) 25,000 smart streetlights
- Düren (DE) 5,000 smart streetlights
- Dutch Railways (NL) 10,250 smart streetlights
- Island of Texel (NL) 3,420 smart streetlights
- Helmond (NL) 8,500 smart streetlights
- Seoul (KR) 2,500 smart streetlights
- Busan (KR) 1,500 smart streetlights
- Bangladesh 4,300 smart streetlights
Smart Lighting with secure Wireless mesh network

- 2.4 GHz network, 250 kbps
- High bandwidth, low latency
- Real-time RF Mesh network
- High security 128 AES encryption
- Light-on-demand (140 km/h) when paired with motion sensors
Smart Street Light Controller Zhaga RF Mesh

- Remotely monitor, manage and control citywide streetlights

- Pole-mounting allows installation on any kind of luminaire

- Uses self-forming, self-healing industry standard RF mesh network
Secure Wireless Mesh Network

Secure communication over wireless network

- Self-forming and self-healing network
- Real-time communication
- Automatic Gateway connection
- Suitable for small and large areas alike
- IEEE regulated high encryption
Universal Luminaire Compatibility

Makes any street light smart

- Suitable for existing fixtures – conventional and contemporary alike
- Suitable for HPS, LPS and LED
- Works without NEMA or Zhaga receptacle
- Supports 0-10V and DALI
Finer control over Dimming & Switching

Regulate light levels as situation demands

- Time-based Light Scene
- Adaptive Lighting (Motion Sensor)
- AstroClock (Astronomical Clock)
- Calendar-based Schedules
- Autonomous
- Emergency (HiLight App)
- Central ALS (Photocells in City)
Supports On-Demand Adaptive Lighting

Wirelessly connects with motion sensors

- SkyLite can automatically receive messages when motion sensors are present in the same network. For example, CitySense/ CitySense Lite
- Motion sensors improve public safety perception
- Real-time communication over wireless mesh network enables real-time neighbour trigger / follow light
Higher Savings – Lower Investment

Light-on-demand through smart combination

- A typical project does need a sensor on every pole
- A sensor can be mounted on every 3rd, 4th or 5th pole, while SkyLite in-between these two
- This smart combination lowers the overall investment, while achieving a comparative high savings
- Case-in-Point: Sohar Port, Oman
Smart City Ready

Built on Open Standards & APIs

- Works with a range of IoT and Smart City systems
- Selected examples:
  - Cisco Kinetics
  - Siemens Atos
  - SixData luxData.light
  - Osram LumIdent
Features to improve day-to-day operations...

**Full Remote Management**
You can monitor and control street lights with SkyLite through our own software, CityManager, or any suitable third-party software.

**Programmable**
With CityManager or 3rd party light management software, easily create customized schedules for street lights. You have total control on when, where and how the lamps turn on.

**Fail Proof**
The smart controllers have inbuilt multilevel back-up system. In an unlikely case of a system failure, street lights will go back to their standard, non-adaptive operation mode.
Features to improve day-to-day operations...

Timely Notifications
Receive all updates concerning your street lighting infrastructure via email or through our CityManager software platform. It helps take quick actions in case of failures.

Inbuilt AstroClock
With battery backed inbuilt AstroClock, SkyLite controller can switch lamps on/off at sunset/sunrise and adjust on/off times seasonally, eliminating the need of conventional photocell.

Third-Party Compatibility
SkyLite allows easy connection of third-party products and software thanks to its open architecture.
Like it.

Why not give it a try?
Want to learn more?

Need datasheet?

Visit: http://tvilight.com/skylite
Thank You

We look forward to working with you!

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