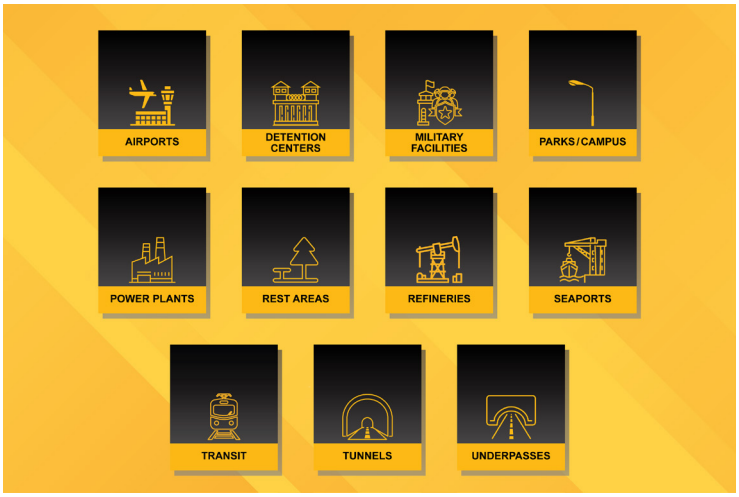
TLACS

Power Line Addressable Lighting Control System

Benefits:

- Increased safety and security
- Remote control and monitoring for diagnostic and troubleshooting
- Reduced maintenance costs
- Energy savings from 25% to 55%
- Increased equipment lifetime
- Versatile and scalable lighting solutions

Applications:



NYX HEMERA Technologies inc.

Adaptive Power Line Lighting Control

TLACS

Nyx Hemera Technologies develops power line lighting control systems for road tunnels, underpasses, and any other areas where secured and seamless control and monitoring are required.

At Nyx we understand that efficient management of infrastructure lighting is essential. The TLACS solution is specifically designed for control (ON/OFF/DIM) and monitoring. TLACS also enables the full potential of LED lighting to be exploited.

The TLACS is the most advanced and proven lighting control system available on the market. With more than 200 projects in the United States, Canada, Europe, Latin America, Middle East and Asia, this simple and dynamic intelligent control system, combined with advanced sensors, automatically adjusts the lighting levels per the real needs.

The system meets various regulatory standards as well as a variety of protocols to interact with smart systems, including Modbus, MQTT, OPC-UA, NTCIP 1213 and others.

The TLACS is a **Smart-City-ready** system that can be easily installed either on new or current structures since it uses the existing electrical cables as communication medium for the individual management of each luminaire.

The TLACS is the perfect lighting control solution for infrastructures and sites where wireless control is not feasible due to waveband blocking material and/or cybersecurity challenges.

TLACS-EM

Scalable system for dynamic road tunnel lighting control and monitoring

- **Dynamic control and monitoring of the tunnel lighting per outside luminance, dirt accumulation and luminaire degradation factor**
- **Remote monitoring of the lighting system's electrical parameters for remote diagnostic**
- **Luminaire usage alternation to even out and extend lifespan**
- **Calculation of the hours of use for each luminaire**
- **Intuitive SCADA user interface for easy onboarding and operator management**
- **Programmable fail-safe mode**

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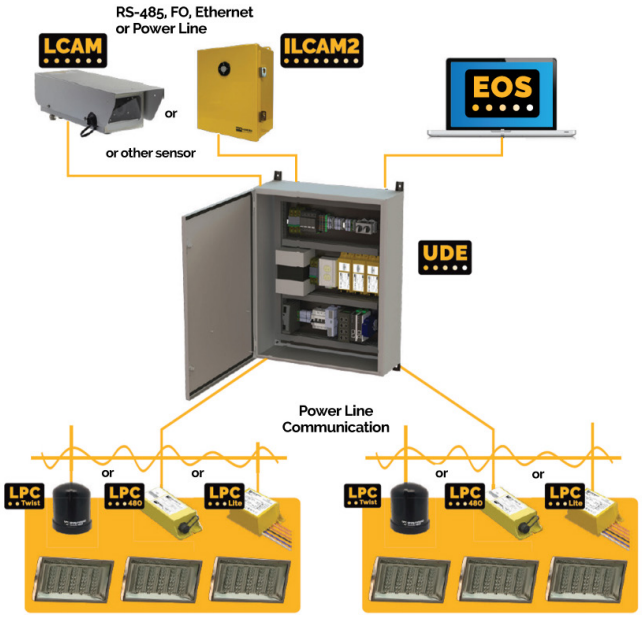
Adaptive Power Line Lighting Control

Power line addressable control and monitoring system for tunnels, underpasses and other external areas for improved safety and security, reduced operational costs and substantial energy savings.

TLACS-U

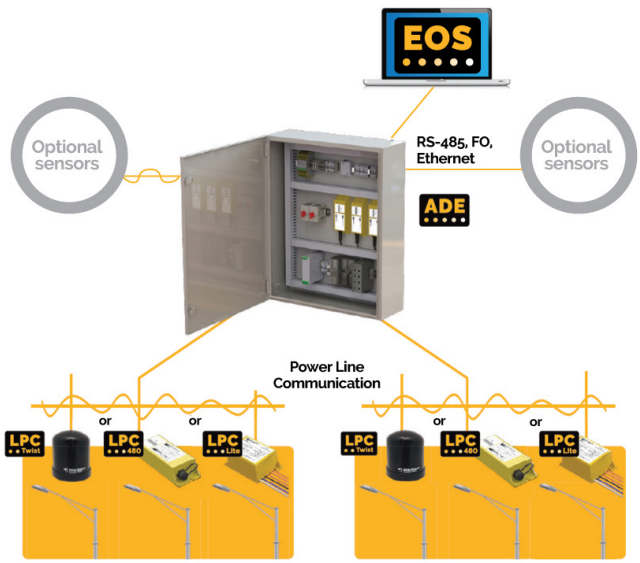
Adaptive system for underpass lighting



- Self commissioned
- Power line communication for added security
- No antenna or control cables
- Intuitive EOS user interface for easy onboarding and operator management
- Calculation of the hours of use of each luminaire
- Programmable fail-safe mode

TLACS-A

Versatile system for exterior area lighting



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BENEFITS

Improves

- Safety & security
- Operational efficiency
- Lighting system optimization
- System reliability
- Luminaire lifetime
- Predictive maintenance

Reduces

- Energy consumption
- Additional cable
- Installation costs
- Maintenance & number of interventions
- Network access fee
- Carbon footprint

OUR SERVICES

Nyx Hemera Technologies offers a turnkey service from opportunity analysis to after-sales support worldwide. The following services can be included with the TLACS solution:

FEASIBILITY AND COST-BENEFIT ANAYSIS
Evaluation of the return on investment (ROI) for every project after a feasibility and an energy saving study.

ENGINEERING
To ensure optimal integration into your lighting system, the Nyx Hemera team designs, coordinates, and validates the integration of your systems. Includes:

- Project Management
- Development and validation for:
  - The database with all lighting scenarios
  - A user interface (EOS, SCADA) customized for every project
- Factory Acceptance Test (FAT)
- Site Acceptance Test (SAT)
- Installation, operation, and maintenance manuals and any other project-related documents.

COMMISSIONING
Commissioning and follow up to comply with the highest operational efficiency.

TRAINING
Comprehensive and documented training provided to the operator.

PHOTOMETRY
The Photometric Service Measurement (PHM) for compliance with measurement standards in tunnels for improved safety and driving conditions.

TECHNICAL SUPPORT
24/7 support to the local maintenance team.

PREVENTIVE MAINTENANCE PROGRAM
A comprehensive program that helps infrastructure operators get the most out of their investment. Includes remote performance reporting and an annual onsite visit.

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Nyx Hemera Technologies

Nyx Hemera Technologies develops and installs smart lighting control systems for infrastructures where energy savings, reduced operating costs, improved safety, optimized operations, and sustainability are essential. The TLACS smart lighting control system has been installed in more than 200 infrastructures around the world over the past 20 years. It is agnostic, making it compatible with any type of luminaire. The company offers a turnkey service ranging from feasibility analysis to after-sales service.

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