



## TLACS-U+

**Tunnel Lighting Addressable Control System  
for underpasses and short tunnels**

### **New**

**One stop shop for the  
integrated electrical  
installation of the  
lighting control system**

- Turnkey integrated lighting control solution
- Self-commissioned
- Simplified scalable system
- Remote access
- Smart City ready
- Power line communication solution



Adaptive Power Line Lighting Control

# TLACS-U+ INTEGRATED

Upgrading the lighting system of an underpass or small tunnel to LED sometimes requires upgrading its electrical infrastructure. Nyx Hemera Technologies offers an integrated solution to facilitate the integration of the tunnel and underpass lighting system, including the approach lighting, to ensure the compatibility and the performance of the power line lighting control solution.

Additional ITS equipment such as CCTV, line use sign flashing beacon can also be integrated.

Nyx is now a one-stop-shop for seamless integration and operation of your underpass/small tunnel lighting system operation.

## The integrated solution comprises:

### Electrical Kiosk

- Fully customized per client's needs
- Typical specifications
  - NEMA 3R or 4X
  - Stainless steel 316
  - With/without environmental control unit

### Electrical Distribution

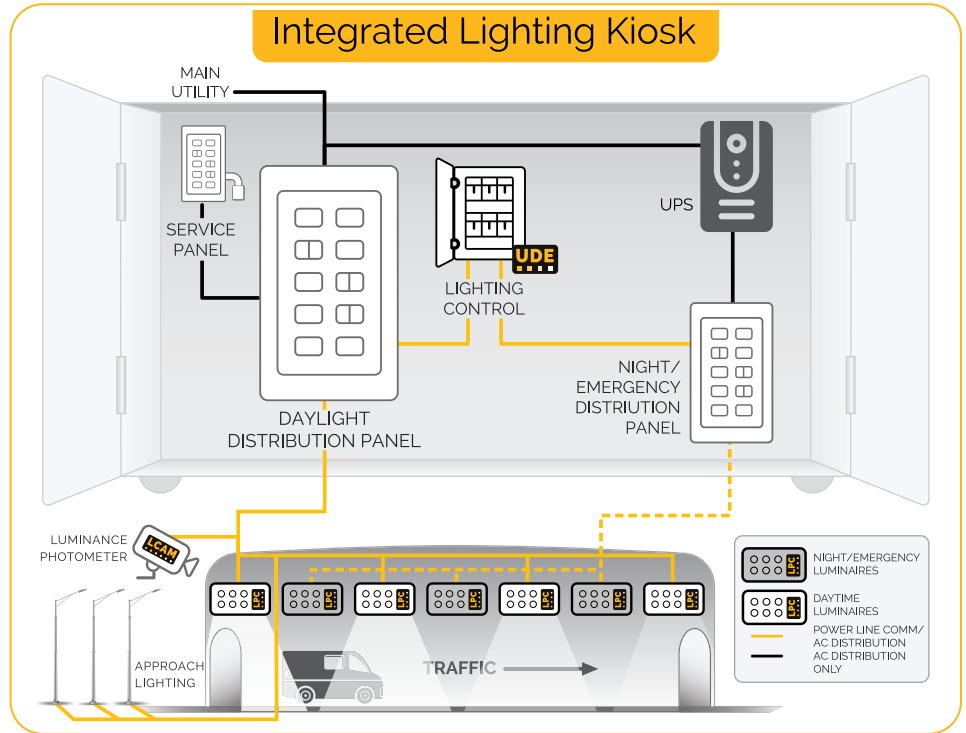
- Fully Electrical panel
- Night/emergency panel
- Designed per electrical requirements

### UPS for night/emergency luminaires

- Flexible/modular UPS
- From 2 KVA to 30 KVA
- Run time from 30 to 90 minutes

### UDE (Underpass Dimming Enclosure)

- Communication over power line to PCs, luminance meter.
- Manual control through HOA
- Ethernet, fiber optic or cellular link connection
- For 100-480 VAC powerline network
- Self-commissioning by any electrical contractor



### Local Product Controller

- Wide input range from 100 to 480 VAC
- Two-way power line communication (without additional control wiring)
- Embedded power line filter and dynamic repeater function
- Individual luminaire monitoring and controlling
- Electrical parameters reporting
- Control type: 0-10 V dimming, ON/OFF relay, and DALI
- Embeddable or twist lock version (ANSI C136.41)

### Luminance Photometer

- Accurate measurement of tunnel entrance luminance
- Photometer alignment monitoring
- Variable viewing angle compensates if Safe Stopping
- Sight Distance (SSSD) installation from the tunnel portal is not an option.
- Rugged 316 Stainless Steel construction
- Communication for remote diagnostic and configuration

## Nyx Hemera Technologies Inc.

875, Charest Ouest, suite 210  
 Quebec City, G1N 2C9, Canada  
 1 (418) 977-7788  
 1 (418) 977-7798  
 info@nyx-hemera.com

Find your local representative at  
<http://www.nyx-hemera.com/en/contact>  
[www.nyx-hemera.com](http://www.nyx-hemera.com)

## Nyx Hemera Technologies

Nyx Hemera Technologies develops and markets tunnel lighting control for road tunnel and underpass.

Over the last 10 years, the TLACS has been installed in over 150 tunnels around the world. Nyx' team is specialized in lighting control and tunnel operation. The company's offers a turnkey service – from feasibility analysis to after sales service anywhere in the world.

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