Self-Management Infrastructure Lighting System

IDTOLÚ
CONNECT & TRANSFORM

A Smart & Sustainable solution for intelligent urban and facility lighting

In collaboration with Alutrafic, Colombia, we have developed an advanced system for real-time diagnostics and management of public street lights. This system leverages AI-driven maintenance and energy optimization to enhance intelligent urban and facility lighting solutions

Key Features

Smart & Adaptive Lighting

- **Automated brightness control** based on ambient lighting conditions.
- **Energy-efficient LED operation** to reduce consumption and extend lifespan.
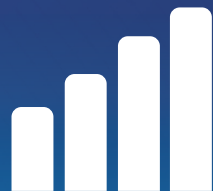- **Remote management** to optimize performance and ensure continuous operation.

AI-Driven Predictive Maintenance

- **Self-diagnosing LED health** for proactive failure detection.
- **Real-time monitoring** of voltage (80V-275V) and energy consumption.
- **Automated alerts** for system malfunctions and performance optimization.

Wireless IoT Connectivity

- Remote management via **Wi-Fi, LoRaWAN, or other IoT communication protocols.**
- Control dashboard for **centralized monitoring & analytics.**
- **Over-the-air** updates for continuous system improvements. operation.

Why Choose Us?

- Reduces energy consumption & operational costs
- Minimizes downtime with predictive maintenance
- Enhances infrastructure resilience
- Provides real-time, AI-driven insights
- Scalable for cities, highways & industrial parks

Transform Urban and Industrial Illumination with Intelligent Automation !

Get In Touch

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Innovate. Automate. Sustain.
IDTOLÚ – Smart Solutions for a Smarter World.