Lotec
Light Of Technology

PoleX

Smart City Monitoring and Management System

The PoleX Smart Pole integrates multiple features, including lighting, IP camera, intercom, weather station, Wi-Fi, SOS button, and QR code within a single structure.

Weather Station

Environmental Monitoring

Continuously monitors ambient air by measuring temperature, humidity, and noise levels in real time. All data is transmitted to the central software platform, enabling a complete and reliable assessment of environmental quality.

Wi-Fi Broadcasting

High-speed public Wi-Fi

Delivered through the pole-mounted access point. Users can quickly connect and enjoy seamless internet access by simply logging into the system.

Speaker, Intercom & Public Announcement System

Audio Broadcasting

Provides audio announcements and enables the transmission of music and public notifications through the integrated speaker. When required, users can communicate with the operator via the intercom.

PoleX Management Software

Enables the management and monitoring of all system resources.

Smart Lighting Module

Energy-Efficient, Remotely Controlled Smart Luminaire

Remotely controllable smart luminaire with programmable lighting profiles and sensor-based operation. Automatically activates in emergency situations to illuminate the area.

IP Camera (Local Recording Supported)

24/7 Video Monitoring

Continuously monitors and records the surrounding area. Provides remote monitoring capability. In case of communication loss, it automatically records to the system's local memory card, ensuring event archiving without data loss.

"INFO" QR Code Information Panel

Quick Access to Information

Provides quick access to organization or business information. By scanning the QR code with their mobile devices, users can instantly access the organization's or business's website, contact number, and address.

Emergency (SOS) Button

Emergency Call Initiation

Initiates an emergency call when pressed. The system sends an emergency signal for the designated assembly area, and an alarm is generated on the central panel along with location and time information.

TCP/IP and LoRaWAN-Based Smart Communication Infrastructure

Flexible Network Connectivity

All system components communicate over TCP/IP. Alternatively, communication can be established via LoRaWAN (optional). This enables real-time data monitoring, status reporting, and remote control from parks, squares, and other locations across the city.

SMART CITY SOLUTIONS

Today's cities face critical challenges that require security, energy efficiency, and rapid response capabilities. Smart city applications integrate urban infrastructure with digital sensors, providing real-time visibility and control for city management.
In disaster management processes, this smart infrastructure forms the basis of early warning and coordination. Sensors that detect earthquakes, fires, gas leaks, flooding, and environmental risks instantly send notifications to the central software. Automatic activation of assembly area lighting, sirens, and public address systems, along with team location tracking and dispatch to the incident site, enables rapid intervention.
Smart city solutions are among the most essential technological infrastructures shaping the future of modern cities.

- Smart Pole
- Ambulance Tracking
- Agriculture and Green Area Monitoring
- Recycling Monitoring
- Assembly Area Monitoring
- Parking Space Monitoring
- Traffic Signal Monitoring
- Air Quality (pH, CO_2)
- Map and Positioning
- Camera and License Plate Recognition
- Hospital Integration
- Meter Automation Integration
- Tag Integration
- Fire Department Integration
- IoT and LoRaWAN Protocol

- Asset and Resource Tracking
- Easy Integration with All Sensor Types
- Easy Access to Data via Web and Mobile Applications
- Data Analysis and Reporting

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LoRa · LoRaWAN · IOT · Modbus · DALI 2 · Di 4 · TALQ

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