

SMART PARKING LOT LIGHTING

Transforming Conventional Parking Facilities into Intelligent, Energy-Efficient, Remotely-Managed Spaces



Pindai QR atau kunjungi
www.illuvia.id

The Problem

Pain Points of Conventional Parking Lot Lighting



High Energy Consumption



Poor User Experience



Difficult Operations & Maintenance



No Data or Analytics

Solution Overview

Smart IoT-Powered Parking Lot Lighting System



Smart Hardware



Wireless Mesh Network



Cloud-Free and Local Premise Optional



Mobile + SaaS App

Minimal Effort, 70% Energy Saved

Core Capability 1

Stepless Dimming with Microwave Radar Sensing

Before vehicle motions are detected - **dim light**

Brightness to 10% when no vehicle motions are detected.

Brightness from 10% to 100% when vehicles are detected coming.

When vehicle motions are detected - **bright light**

Brightness keeps at 100% when continuous vehicle motions are detected.

When vehicle motions are not detected - **dim light**

Brightness to 10% when no vehicle motions are detected.

Brightness from 100% to 10% when vehicles are detected leaving.

*All the brightness values can be adjusted.

Why This Matter?



70-80% Energy Saving



Adjustable Sensitivity



Group/Zone Coordination



Follow-Me Lighting



Extended Lamp Life

Core Capability 2

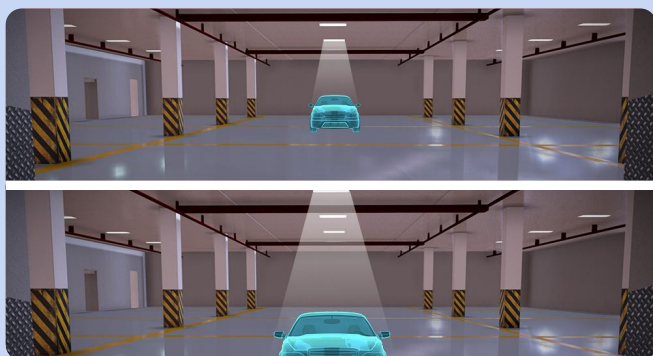
Group & Zone Sensing – Intelligent Light Guidance

Design A

Sequential Light Guidance



When a vehicle is detected, lamps ahead of the vehicle automatically illuminate one by one in sequence.



Design B

Intersection Zone Lighting



When motion is detected near intersection, all lamps in the intersection zone activate



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Hardware Ecosystem

Complete Hardware Kit – 4 Components

Primary Device

Bluetooth Mesh +
Microwave Radar
T8 LED Tube



Instalation Tool

IR + Bluetooth
Remote Control
(T8 Pro)



Cloud Bridge

Gateway
Pro (LAN/
Wi-Fi / 4G)



Energy Monitor

Smart Metering
Circuit Breaker
/ Electricity
Meter



Software Platform

Cloud-Based Management & Control System



Lighting
Control



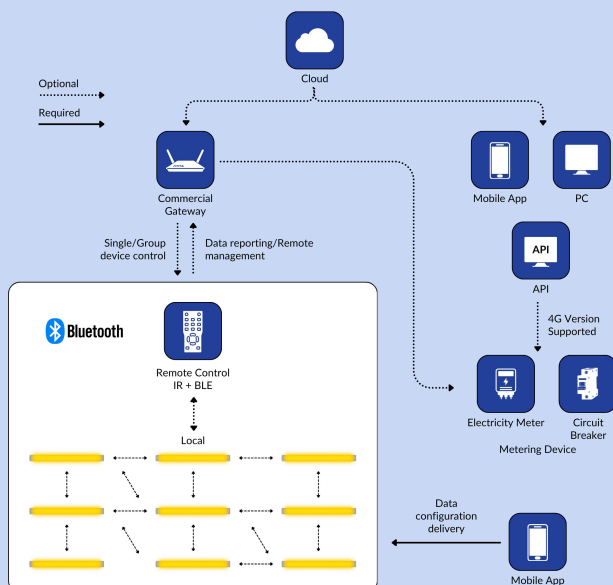
Energy
Management



Operation
Maintenance



System
Management



Implementation

Fast, Simple Deployment

1. Site Survey & Design
2. Hardware Installation
3. App Setup & Pairing
4. Group Configuration
5. Cloud & SaaS Activation
6. Handover & Training

Ready to Transform Your Parking Facility?



Site visit and lamp count survey
✓ **FREE**



Pilot installation on one floor
✓ **Low Commitment Demo**



Energy savings report
✓ **FREE**



Management Service (After Sales)
✓ **FREE**

70-80%

Energy Saved

24/7

Cloud Monitor

<15 Months

Payback Period

50.000 h

Lamp Life

**Illuvia Smart Lighting
for Smart Parking**