IRIDA LABS

RZ Ecosystem Partner Solution

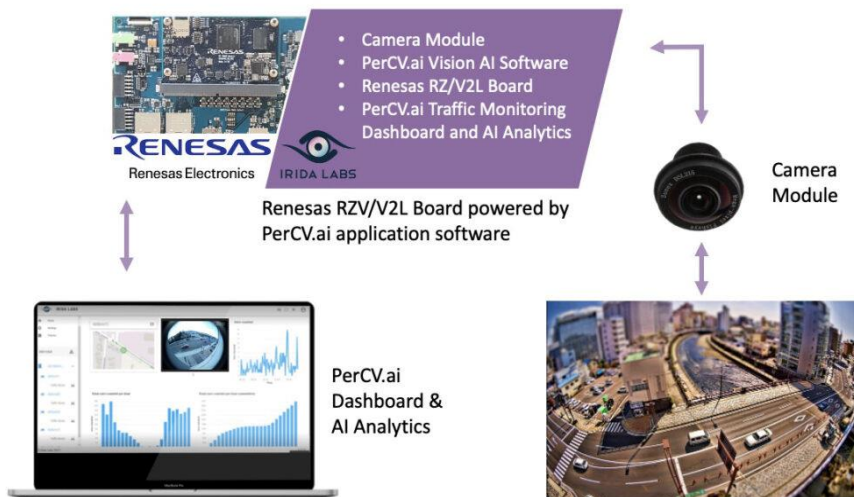# Irida Labs Vision AI Sensor for Smart Cities & Spaces

Solution Summary

This **Vision AI Sensor** accelerated by [RZ/V2L](#) is a plug-n-play Edge AI hardware & software solution for Smart Cities & Spaces that drives the new era in urban area management. Based on the core functionalities of accurate, Vision AI-powered vehicle, object & citizen detection, the sensor comes with PerCV.ai intuitive dashboard for data visualisation and flow analytics. Traffic monitoring, Citizen Flow Monitoring and Smart Parking are just some of the supported applications.

Features/Benefits

- **VISION AI at the EDGE**: Turns camera into a vision sensor that does all the AI processing at the endpoint using RZ/V2L – No Cloud necessary
- **EASY INTEGRATION:** Compact size – easily integrated with existing software stack via industry standard MQTT protocol
- **24/7 Analytics:** Fully automated, unsupervised and privacy-preserving traffic & pedestrian flow monitoring and analytics around the clock
- **TIME to MARKET:** From prototype to production deployment in 2 - 4 months

Diagrams/Graphics

- Camera Module
- PerCV.ai Vision AI Software
- Renesas RZ/V2L Board
- PerCV.ai Traffic Monitoring Dashboard and AI Analytics

Renesas RZV/V2L Board powered by PerCV.ai application software

Camera Module

PerCV.ai Dashboard & AI Analytics

Target Markets and Applications

- Smart Cities & Spaces Operations & Analytics
- Smart Grid/Energy Saving, Smart Lighting
- Intelligent Transportation
- Citizen Safety
- Citizen Quality of Life & Accessibility

https://iridalabs.com/renesas-irida-labs-vision-ai-sensor-smart-cities/

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Powering Vision AI Solutions
for Industry 4.0 / Smart Retail / Smart Cities & Spaces

Irida Labs is powering vision based AIoT sensors and solutions by bringing computer vision and AI at the edge, helping companies around the world develop scalable vision-based solutions. We provide AIoT-optimized embedded vision software using computer vision and deep learning, transforming bounding boxes into real world vision applications.

Our end-to-end AI software and services platform, **PerCV.ai**, unlocks myriads of computer vision and AI applications by enabling scalable vision solutions for people, vehicle and object detection, identification, tracking, and 3D pose estimation in a wide range of markets such as **Industry 4.0**, **Smart Cities & Spaces** and **Smart Retail**.

SMART CITIES & SPACES
Traffic monitoring | Parking Lot Management | ANPR

INDUSTRY 4.0
Stock Management | Product identification | Process Automation | QA

SMART RETAIL
Shelf monitoring | Customer analytics | Store heatmapping

Our fast-growing team is based in Europe, Greece, while our business' global footprint spans from Northern & Central Europe to North America and Asia.

https://iridalabs.com/

https://www.linkedin.com/company/irida-labs/

https://www.youtube.com/channel/UCcGvXFkpfvGCRQTZCvC2xYg