



IRIDA LABS

Renesas Ready Ecosystem Partner Solution Irida Labs PerCV.ai Vision AI Platform



Solution Summary

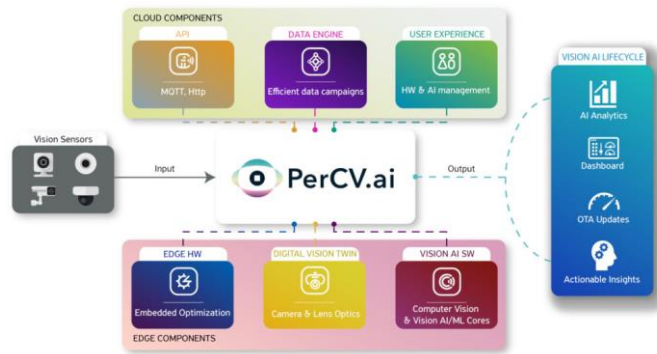
PerCV.ai is an end-to-end software & services Vision AI platform compatible with [RZ/V2L](#), [RZ/V2H](#), and [RA8D1](#) hardware, bringing together all the building blocks necessary for deploying & scaling computer vision-based AIoT sensors & solutions. The platform provides a complete stack of necessary tools and services; from vision system design, edge hardware, embedded software and AI models, to sensor management, API 3rd-party integrations and AI analytics. Training, evaluating, and exporting to Renesas platforms is quick & easy, supporting both fast prototype solutions, as well as full-scale Vision AI product developments.

Features/Benefits

- **Problem formulation & BOM optimization** – minimizing **AI Debt** of the Vision AI model development
- **Vision AI model and Data Management** – rapid AI development cycles, including **DRP-AI support (RZ/V only) in the workflow**
- **Scaling up** – support from POC to large scale device management and AI analytics

Diagrams/Graphics

- 1 Problem formulation
BOM optimisation
- 2 Vision AI model
Data management
- 3 Scaling up



Target Markets and Applications

- Smart City Operations & Analytics
 - Real-time Traffic Analytics
 - People Counting & Heatmapping
 - License Plate Recognition
- Industry 4.0 / Smart Factories
 - Packaging Integrity QA
 - Warehouse Monitoring
 - Analogue Gauge Digitization

www.iridalabs.com/percv-ai-computer-vision-software-services-platform



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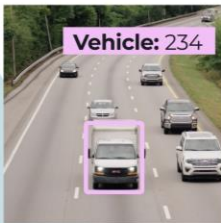
Powering Vision AI Sensors & Solutions

[Irida Labs](#) is a global leader in edge computer vision software, transforming cameras into intelligent AIoT sensors. Through our game-changer platform, [PerCV.ai](#) (pronounced "Perceive AI"), we empower organizations with Vision AI sensors and solutions that convert visual data into actionable metadata and streamline operations, enhance automation, improve efficiencies, and increase safety at scale.

We work with Fortune 500 companies and top innovators across diverse markets, from smart factories and logistics to smart buildings and city surveillance, providing intelligent, adaptable, and scalable Vision AI sensors and solutions worldwide.

Going beyond AI models, our unique approach delivers end-to-end, deployment-ready systems paired with a robust development infrastructure for quick time-to-market and future-proof scalability. Our mission is to make Vision AI accessible and impactful, empowering businesses to solve real-life challenges by transforming how cameras see the world.

PerCV.ai Smart Cities & Spaces Suite



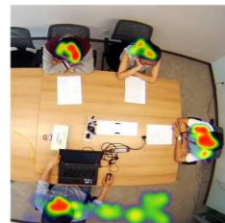
Traffic Analytics



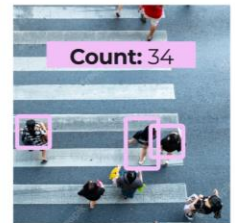
Smart Parking



Number Plate Recognition



People Counting & Heatmapping

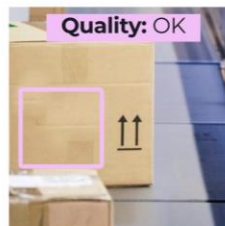


Pedestrian Flow Monitoring

PerCV.ai Industry 4.0 Suite



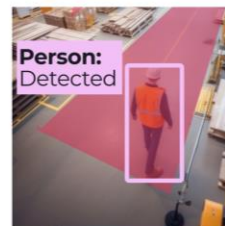
Warehouse Monitoring



Packaging Quality Inspection



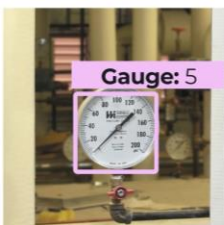
Product QR Scanning



People Presence Detection



Product Counting



Analogue Gauge Digitization



Vehicle Recognition



Personnel Safety PPE Monitoring

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