Nota AI®

Renesas Ready Ecosystem Partner Solution
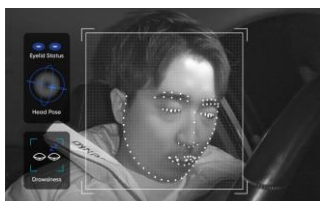# Nota AI Nota DMS

RENESAS PARTNER NETWORK READY

Solution Summary

Nota AI's Nota Driver Monitoring System (DMS) is an in-cabin safety solution powered by NPU-compatible technology to enhance road safety for all aspects of vehicle travel. Nota DMS detects unregistered drivers, driver drowsiness, cell phone usage, and driver distractions like smoking on general purpose MCUs and MPUs based on our lightweight AI technology. This solution is supported on Renesas RA8D1, RA8P1 MCUs and RZ/V2L MPUs.

Features/Benefits

- Excellent performance on low-cost edge devices (10~50 FPS)
- Compatibility with various camera types : IR/RGB, IR-RGB
- Flexible installation locations
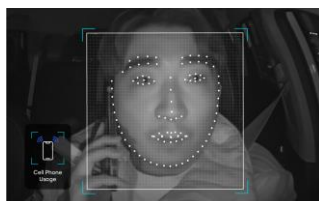- Robustness in various environments

Diagrams/Graphics

Drowsiness Detection

Distraction Detection

Cell Phone Usage Detection

Smoking Detection

	Drowsiness	Distraction	Cell Phone Usage	Smoking
RA8D1	✓	✓		
RA8P1	✓	✓	✓	
RZ/V2L	✓	✓	✓	✓

Target Markets and Applications

- Dashboard camera
- Vehicle travelling data recorder
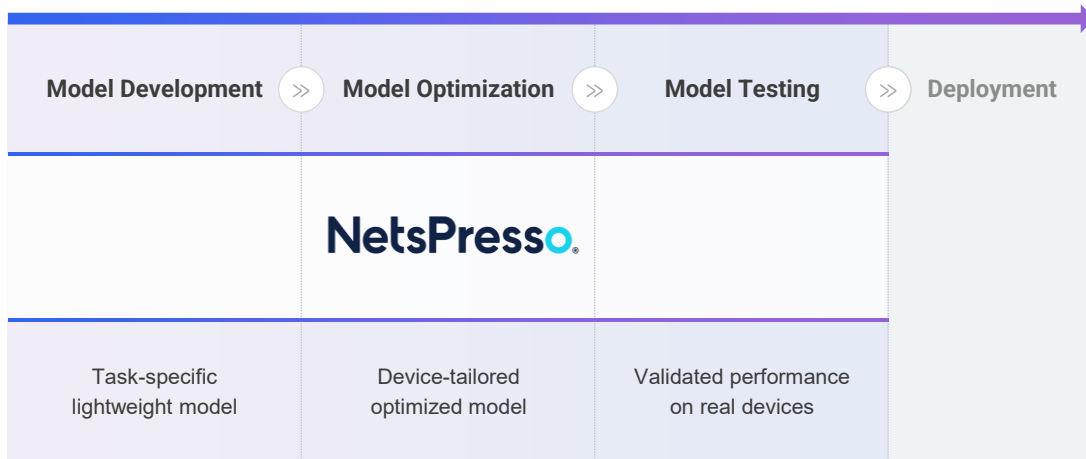- Monitoring system

www.nota.ai/dms

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Nota AI®

Nota AI® (Nota Inc.) is an innovative technology company specializing in hardware-aware AI model optimization through its proprietary platform, NetsPresso®.
Leveraging this technology, Nota AI delivers high-performance on-device AI solutions across various industries, including transportation, IoT, mobile, robotics, and beyond.

Nota AI®'s Technology

AI Model Optimization Platform

Model Development	»	Model Optimization	»	Model Testing	»	Deployment

NetsPresso.

Task-specific lightweight model	Device-tailored optimized model	Validated performance on real devices

On-device AI Solutions

Nota Vision Agent

- Real-time monitoring with instant alerts
- Automated analytics reports
- Natural language Q&A and video search

ITS Solution

- Traffic monitoring
- VRU safety
- Incident management
- Smart parking

DMS & FR Solution

- Driver behavior monitoring
- Driver authentication
- Access control

Industrial Safety Solution

- Worker safety management
- Work environment safety management

Surveillance Solution

- Public safety management
- Disaster prevention
- Crowd safety management
- Illegal activity detection

Contact Us - Nota AI