

Renesas Ready Ecosystem Partner Solution Nota AI Nota DMS



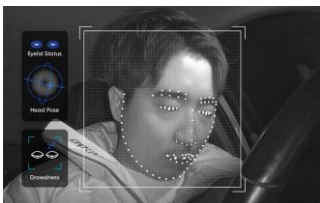
Solution Summary

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

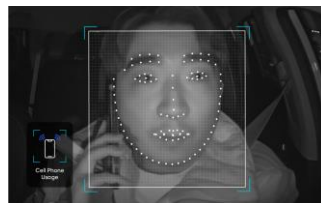
Diagrams/Graphics



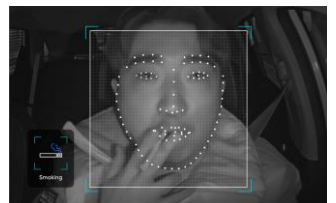
Drowsiness Detection



Distraction Detection



Cell Phone Usage Detection



Smoking Detection

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

Target Markets and Applications

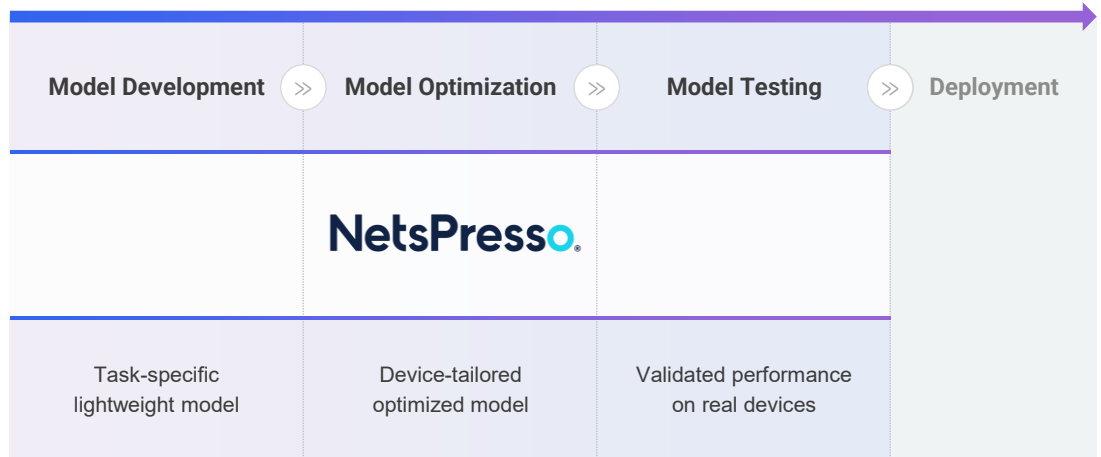
- Dashboard camera
- Vehicle travelling data recorder
- Monitoring system

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



On-device AI Solutions

| Nota Vision Agent | ITS Solution | DMS & FR Solution |
|--|--|---|
|  <ul style="list-style-type: none">• Real-time monitoring with instant alerts• Automated analytics reports• Natural language Q&A and video search |  <ul style="list-style-type: none">• Traffic monitoring• VRU safety• Incident management• Smart parking |  <ul style="list-style-type: none">• Driver behavior monitoring• Driver authentication• Access control |
| Industrial Safety Solution | Surveillance Solution | |
|  <ul style="list-style-type: none">• Worker safety management• Work environment safety management |  <ul style="list-style-type: none">• Public safety management• Disaster prevention• Crowd safety management• Illegal activity detection | |

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