

RZ Ecosystem Partner Solution

MSR Intruder Vehicle Detection



Solution Summary

- Automatic monitoring of vehicle intrusion into restricted areas such as factories, ports, and private property.
- Low power consumption by embedded AI processor enables compact housing and long-time unattended monitoring

Features/Benefits

- DRP-AI - Renesas Electronics' high-speed, high-accuracy AI engine, enables real-time detection of suspicious vehicles.
- The [RZ/V2M](#) features low power consumption in the 1 TOPS/W class, enables a significant size reduction in the chassis compared to conventional AI inference using a PC with GPU.
- RZ/V2M low-power also enables PoE power supply to AI camera and rejects camera power lines.
- In addition to the vehicle type identification, the system can be expanded to include license plate recognition.

Diagrams/Graphics



Data gateway device MP1000 Series



Car Gate

Wireless Interface
(Option)
Wireless LAN /
LTE/
Bluetooth



PoE camera module
w/ RZ/V2M



Target Markets and Applications

- Social Infrastructure
- Factory Automation



Mitsui E&S Systems Research Inc.

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|----------------|-------------------------------------|
| Company name | Mitsui E&S System Research Inc. |
| Creation | April 1 st , 1986 |
| Capital | 720 Million-Yen |
| Representative | Toshifumi Morishige |
| Head office | Mihama-ku, Chiba-shi, Chiba, JPN |
| Shareholder | Mitsui E&S Holdings Co., Ltd.(100%) |
| Sales | 23.8 Billion Yen (March 2020) |
| Employees | 643 (June 2020) |



Certified by the Ministry of Economy, Trade and Industry as an SI (System Integrator) company



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