

International joint R&D: Rail Autonomous Mobile Robot (Rail-AMR)

■ Overview

- The rail autonomous mobile robot (Rail-AMR) performs tasks such as autonomous track navigation, worker tracking, and remote monitoring.
- It enhances operational efficiency and safety in railway environments by supporting autonomous multi-functional inspections.

■ Key Characteristics

■ Autonomous Track Navigation

: Remote navigation control and autonomous driving on tracks

■ Worker Recognition and Tracking

: Detects moving workers and maintains a safe distance

■ Autonomous Monitoring of Abnormal Situation

: Detects anomalies such as obstacles, surrounding infrastructure, and people

■ Integrated Inspection and Data Management

: Integrates various inspection modules and enables facility inspections, as well as data collection, processing, and transmission

