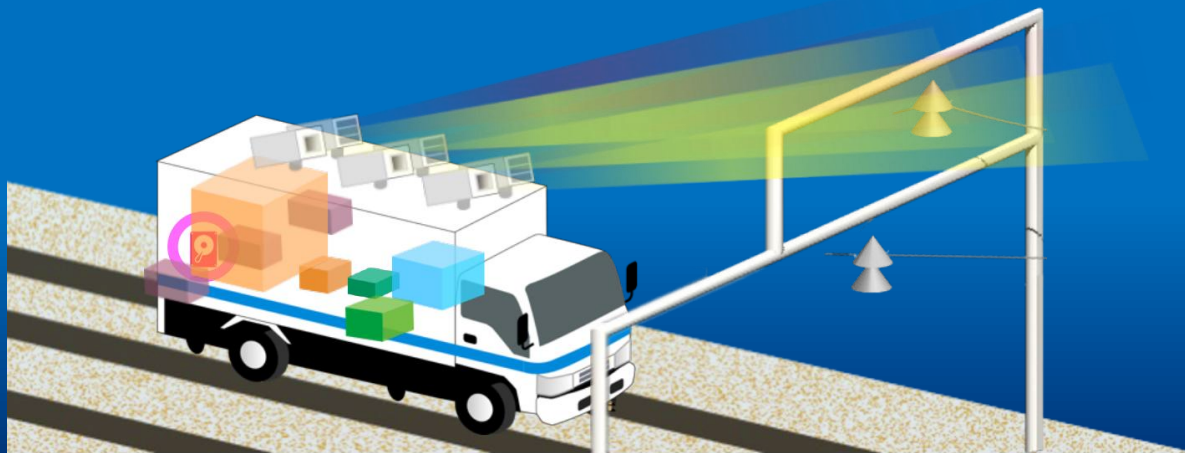


Road-Rail Inspection Vehicle



Road-Rail Inspection Vehicle

NIPPON SIGNAL

Data captured by onboard imaging systems is extracted and analyzed on wayside equipment, with AI assisting in condition assessment.

Challenges for railway operators

Declining workforce

Inspection of railway trackside equipment is currently carried out on-site by workers

Transforms ground-based inspections of trackside equipment into onboard inspections.

Onboard inspection system implementation

Enabling nighttime inspections

Utilizes cameras and near-infrared lighting for image capture even at night.

AI supports detection

abnormalities difficult to capture with sensors.

Integrated with ATP and rail inspection

Inspection of ATP ground transponders and trackside equipment around rails

Supports asset management

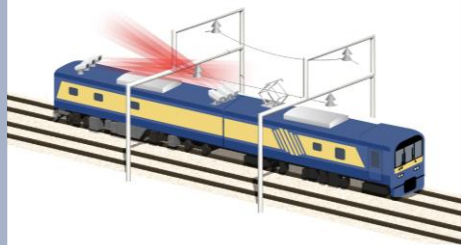
Linking location data with equipment ledgers.

Road-Rail Inspection Vehicle

NIPPON SIGNAL

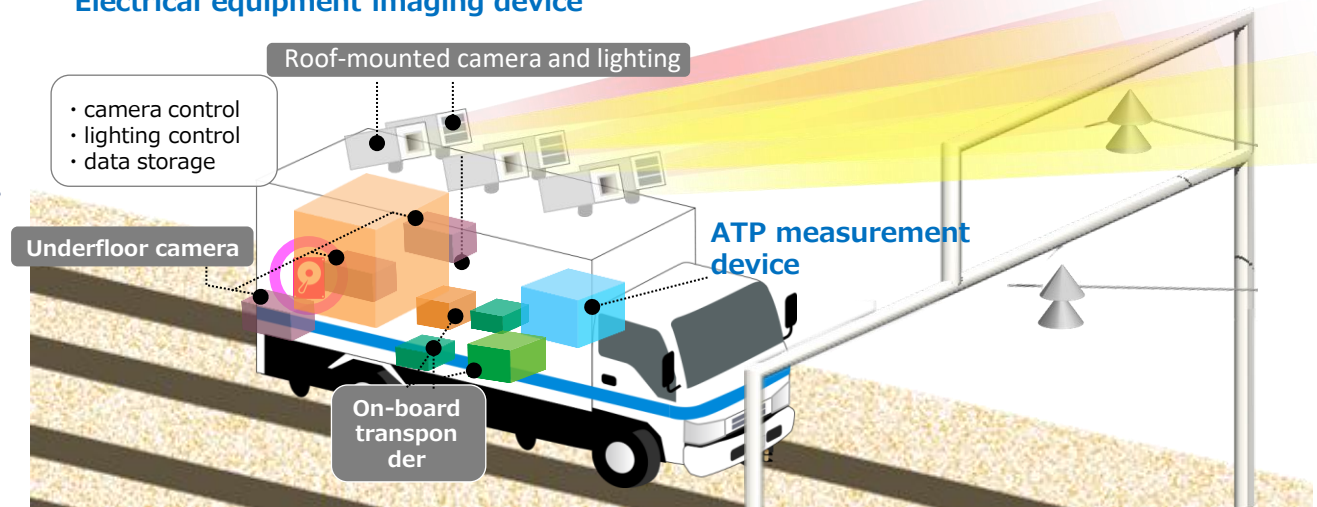
Miniaturizes comprehensive inspection vehicle functions and mounts them on a road-rail vehicle.

Inspection Vehicle



Road-Rail Inspection Vehicle

Electrical equipment imaging device



Road-Rail Inspection Vehicle

Inspection method

NIPPON SIGNAL

Inspection method: Images captured onboard are analyzed on ground equipment and utilized via cloud services.

