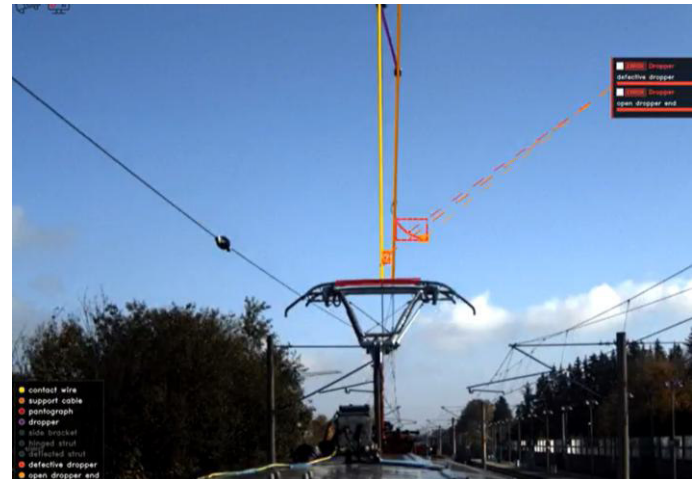


Contactless Overhead Line Analysis (COHA)

AI-Powered Overhead Line Analyses in Regular Service

The availability and operational safety of electrified railway lines depend heavily on the condition of the overhead line infrastructure. With **Contactless Overhead Line Analysis (COHA)**, we provide a contactless solution for the automated monitoring of overhead line systems. Using high-resolution cameras and AI-powered image processing, potential defects and anomalies are detected and assessed during regular operations. By integrating COHA into regular service trains, overhead line infrastructure can be monitored far more frequently than with conventional inspection runs. This enables the early detection of defects before they lead to operational disruptions. As a result, maintenance activities can be planned more effectively, inspection efforts reduced, and infrastructure availability sustainably improved.



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Our services

- Continuous contactless monitoring of overhead line infrastructure during regular operations
- AI-powered analysis for automated defect detection and condition assessment
- Detection of damaged droppers and electrical connectors
- Identification of geometric abnormalities in registration arms and steady arms
- End-to-end delivery of cloud services, hardware, software, and analytics tools from a single source

Reference projects

- DB InfraGO:
Deployment of automated overhead line inspection on selected routes
- Over 5,000 km of overhead line infrastructure analyzed

Your advantages

- Early detection of potential overhead line defects before they impact operations
- Reduced inspection effort through automated monitoring and analysis
- More efficient and cost-effective maintenance planning
- Higher infrastructure availability and reliability
- Continuous monitoring during regular service without contact to high-voltage components
- Flexible analytics tailored to your specific requirements
- Scalable solutions that grow with your monitoring needs
- DB InfraGO:
AI-powered defect detection of droppers, electrical connectors, and geometric deviations between registration arms and steady arms

Your contact

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