

TrainView

Full Scale Train Imaging and Inspection System

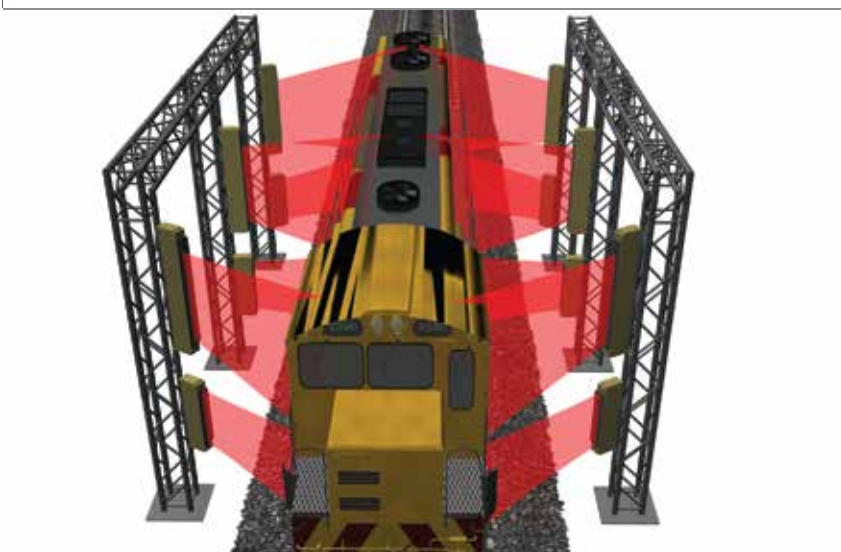
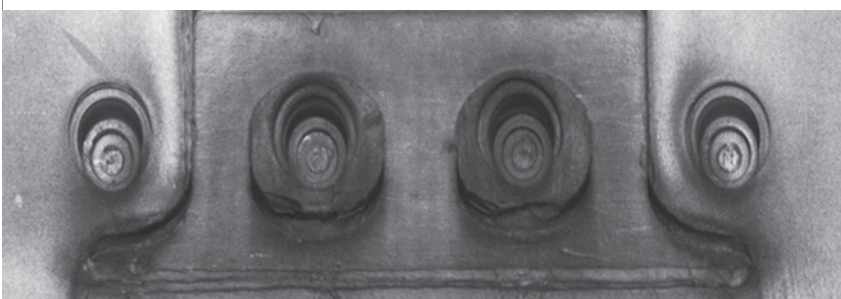


Beena Vision offers TrainView as a full scale train imaging system as part of its comprehensive train inspection systems. This system consists of multiple line and area scan cameras that provide images of the train at track speeds with high resolution. The system is designed to provide images of all externally visible components of a car. The images are then assigned to individual cars based on the AEI data. Car components are then ready for viewing and analysis.

The system uses several sensors and algorithms to pinpoint axle position, car beginning and car end positions, car components such as safety appliances, ladders and handholds, hopper door and their handles, brake hose, truck components such as side frame, springs, and car components such as brake, etc.

Benefits to rail operators includes assisting Carmen's visual inspection process and providing timely maintenance alerts for defective car components.





Inspections and Measurements

- › Side Walls
- › Friction Wedges and End of Bolster Area
- › Springs
- › Bearing End Caps
- › Side Frame
- › Brake Hose (*side view*)
- › Coupler (*side view*)
- › Top Chords
- › Running Boards (*longitudinal and latitudinal*)
- › Rooftop Handholds
- › Roof Hatches
- › Load Conditions
- › Handholds
- › Ladder Treads
- › Hand Brake Wheel
- › Uncoupling Lever
- › End Platforms
- › Sill Steps
- › Side Sill (*external view*)

Features

- › Sophisticated GUI Software or Train Viewing And Car Inspection
- › Automated Condition Monitoring of Many Train Components
- › Operating Train Speeds of Up to 60mph (100 km/h)
- › Operation in All Track and Environmental Conditions
- › Automated Train Analysis Tools
- › Tower Based Installation
- › Operating Temperature: -40°C To 55°C
- › Low Maintenance

Software Features

- › Remote Monitoring/Control Software
- › System Management Software
- › Digital Image Acquisition/Processing
- › Calibration Software
- › Web-based Database/Data Search Software
- › Database Interface Software
- › Automated Reporting Software
- › AEI (AVI) Integration

Although most of the inspection process is automated, sophisticated train viewing software is also provided as part of the TrainView product.

TrainView has found applications in the security industry where detecting foreign objects on trains is becoming a critical issue in train transportation industry.