

CSCView

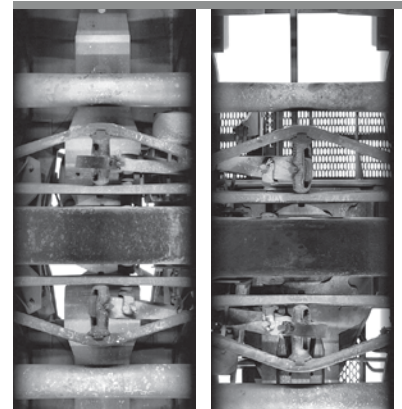
Car Structural Component and Undercarriage Inspection System

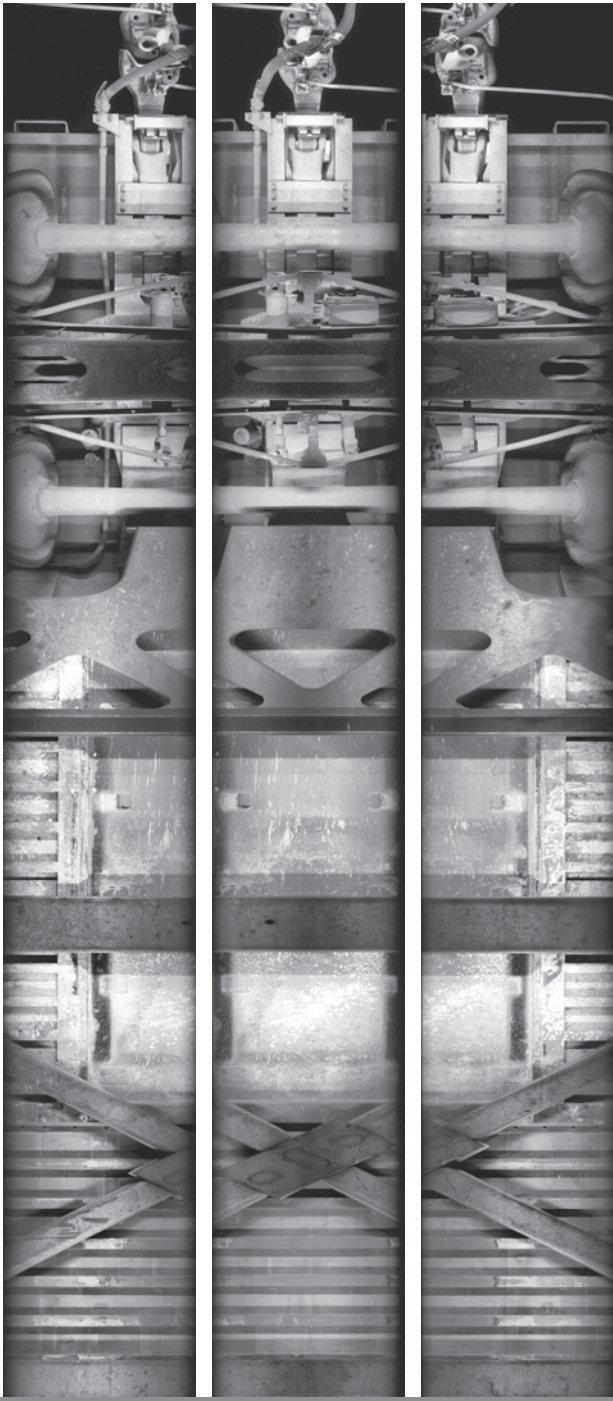


Inspection of car (wagon) components which are only visible from the bottom has always been a challenge for railway operators. CSCView is an undercarriage imaging and automated inspection system designed to produce high quality images of the structural components of railcars and locomotives at normal track speeds. The system operates with line scan imaging technology and produces high resolution images of virtually all visible components under the car. The system is installed under the track and is housed within steel tie (sleeper) structures.

System uses multiple cameras (up to 19 cameras) to capture different areas of the car undercarriage. Specially designed lighting systems are deployed with the system to provide ample illumination and withstand the harsh railroad track environment.

CSCView is capable of automated inspection of several components such as brake rigging components, center and side sill, coupler pin plate, jacking plate, etc. System has enormous potential for effective inspection of all undercarriage components both for passenger and freight trains.





Inspections and Measurements

- Center Sill
- Side Sill (*internal view*)
- Cross Bearers
- Body Bolster
- Coupler (*bottom view*)
- Brake Hose (*bottom view*)
- Brake Rigging Components Including Brake Beam
- Coupler Pin Plate
- Draft Gear Carrier (*partial view*)
- Axle Surface
- Back Side (*inside rim face*) of Wheels
- Locomotive Gear Case
- R-Clips
- Hopper doors

Features

- Complete Undercarriage Images
- Speeds up to 60mph (100km/h)
- Capable of Operating in Extreme Environments
- Operating Temperature: -40°C to 55°C
- Installed on Steel Ties
- No Major Track Structure Modification
- Below Top of Rail Installation
- 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

