vue® Vehicle Undercarriage Examiner

Vehicle Undercarriage Examiner

Overview

The Vehicle Undercarriage Examiner is an intelligent imaging system that provides high-resolution images of railcar undercarriages at speeds of up to 120 mph.

The system uses the **duostech** Extreme True Definition (**xtd®**) technology to provide unparalleled imagery. The resulting digital images and the available A.I. processing combine to make rail operations safer and more secure, while saving time and money.

Traditional Inspections

Traditional mechanical inspections of railcars and locomotives are a dangerous but vital element of railway safety. Trained mechanical teams often perform inspections in challenging conditions. Rail companies need safe, reliable networks yet need to control operating expenses. Inefficient inspection processes can result in excessive dwell times where trains sit idle when they should be producing revenue.

Traditional Inspection

Automated Inspections

The Vehicle Undercarriage Examiner automates the inspection process and provides mechanical teams with the latest technology to improve and optimize railcar inspection workflows. These systems ultimately reduce online failures due to mechanical defects, improve yard and network velocity, and make railroads more safe and secure.

Automated Inspection

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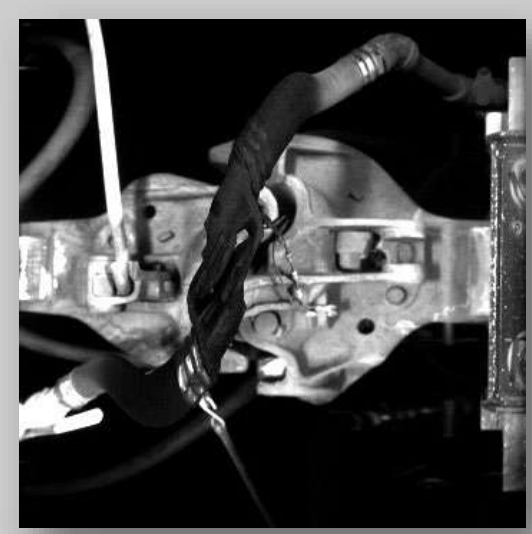
How it Works

The **vue**® is embedded between the rails and captures three distinct views to maximize visual information. Images are stitched together to create a continuous panoramic view of the railcar's undercarriage for safe and efficient remote inspection.

- The **xtd**® system uses powerful line scan cameras to capture up to 224 megapixels per car for crisp, highly detailed images.
- The included Linear Speed Sensor captures train speed and adjusts for speed variations, directional motion and full stops. It enables accurate image stitching at speeds from 0 to 120 mph.
- The Linear Panorama Generator gathers images and stitches the frames together to create a continuous view of the consist.
- The **centraco**® command and control software platform quickly organizes, displays and distributes the data that users need for making sound decisions to guarantee the safety, security and profitability of railroad operations.
- Operators can quickly select the focus of interest and zoom in across the panoramic view. Operational workflows are easily set up and customized from within the system to match desired process chains and alerts.



Actual Undercarriage Image
Captured at 70 mph

System Features

- Linear Speed Sensor
- Linear Panorama Generator
- Extreme True Definition Imaging (**xtd**®)
- Laser car cutting system
- Real-time and stored image streams searchable by AEI or RFID consist data
- Powerful lighting system
- Accurate image capture up to 120 mph
- Highly detailed images for spotting defects
- Easily integrated with existing wayside software and systems
- **centraco**® command and control software

duostech

Duos Technologies provides a broad range of sophisticated intelligent technology solutions with an emphasis on mission critical applications.

We combine an innovative business philosophy with a focus on customer service.

Our specialty is the development and delivery of turnkey solutions for rail-centric critical infrastructure systems.

All products, systems and solutions are backed by a 24 x 7 x 365 global training, maintenance and service program.