

VUE® Vehicle Undercarriage Examiner

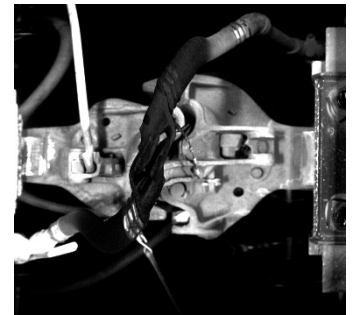
High Definition Intelligent Scanning System

The duostech Vehicle Undercarriage Examiner provides extremely high resolution images from the undersides of railcars at speeds over 70 mph. Incorporating xtd® (Extreme True Definition) technology, the vue® offers unparalleled high definition imagery and intelligence for security as well as mechanical and safety inspections. Numerous features and options are available offering maximum flexibility and scalability for end users.

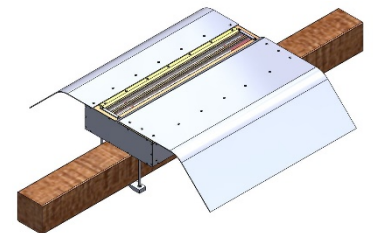
The Vehicle Undercarriage Examiner System (vue®) is embedded between the rails and captures three (3) distinct views to maximize visual information. The images are assembled (stitched) to create a continuous panoramic view of the entire length of the rail car's undercarriage. The vue® allows the undercarriage to be remotely inspected safely and efficiently.

vue® features:

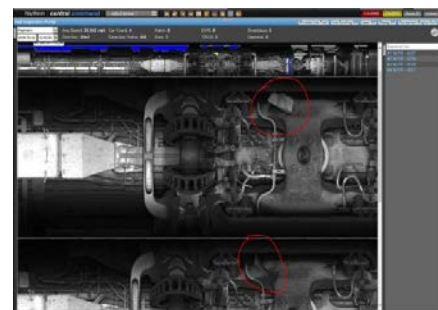
- Incorporates a patent-pending precision linear speed sensor allowing accurate image stitching at variable speeds up to, and exceeding, 70 mph. It also allows for abnormal train movements while a train is in the portal including forwards, backwards and complete stop movements.
- The included Linear Panorama Generator assembles images gathered from cameras and stitches all frames to create a continuous view of the entire consist. Operators can quickly select the side of interest and inspect the continuous panoramic view as well as a geo-spatial view of the train.
- Automated Equipment Inventory (AEI) / or RFID system consist data is the primary methodology used to synchronize captured images of each railcar. The system is searchable by using the AEI tag number or sequence on the train.
- Extreme True Definition (xtd®) utilizes megapixel line scan cameras to provide an average image resolution of 224 megapixels per railcar. Images are crisp and highly detailed.
- The operator interface utilizes the centraco® Enterprise Information Management platform. This software platform allows controlled and secure distribution of information collected by the system to authorized users through any web browser.



Zoomed in car coupling at 45mph

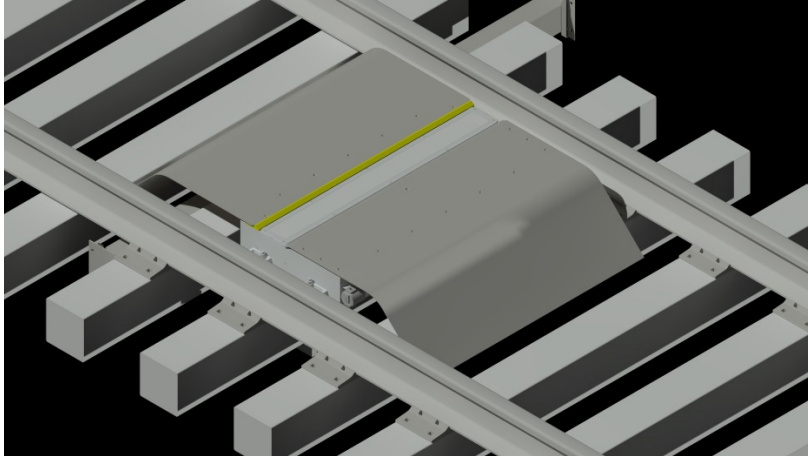


System Exploded View



Transit centraco™ User Interface

vue® Vehicle Undercarriage Examiner



Installed system with tie-mounted installation

Duos Technologies Inc. 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 customized 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.

Standard vue® Features

- Precision Linear Speed Sensor
- Linear Panorama Generator
- Extreme True Definition Imaging (xtd®)
- Laser car cutting
- Ability to integrate image stream with AEI / RFID consist data
- Structured LED Lighting System
- Image capture in excess of 70 mph
- Optical zoom in/out functions
- Resolution to view common defects
- Completely distributive information system
- Ability to interconnect to existing railroad systems
- centraco® Command & Control Software

Optional Modules and Features

- Foreign Object Detection (FOD)
- Top and/or Side View Linear Panoramas
- *Automatic Detection of Structural Deficiencies (under development)*
- *Thermal Imaging for "Hot Spots" on Locomotives (under development)*

duostech

Corporate Headquarters

6622 Southpoint Drive S
Suite 310
Jacksonville, FL 32216
Tel: (904) 296-2807
Fax: (904) 296-4103

Email

info@duostech.com

Web

www.duostech.com

duostech

www.duostech.com

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