

# TrainWatch



Trimble® TrainWatch software is a powerful virtual train inspection portal. It provides a comprehensive environment where a train inspector can inspect a full train using data gathered by wayside equipment.

The environment is designed to provide different modes of inspection like animation, car based and/or component based. The advanced technology utilized in TrainWatch works with one operator with multiple monitors where the content of each monitor can be customized by the user according to the inspection routine to be followed by the inspector.

TrainWatch users benefit from automated car component detection and segmentation algorithms running in the background to help simplify and speed up the inspection process. Existing Trimble automated inspection algorithms are also supported within the TrainWatch environment. This allows required inspections to be managed using automated algorithms making the virtual inspection process even faster.

TrainWatch provides versatile reporting capabilities to facilitate train condition reporting, including cropping images of relevant sections directly into the report, adding comments, automatic identification of the car (wagon) that components belong

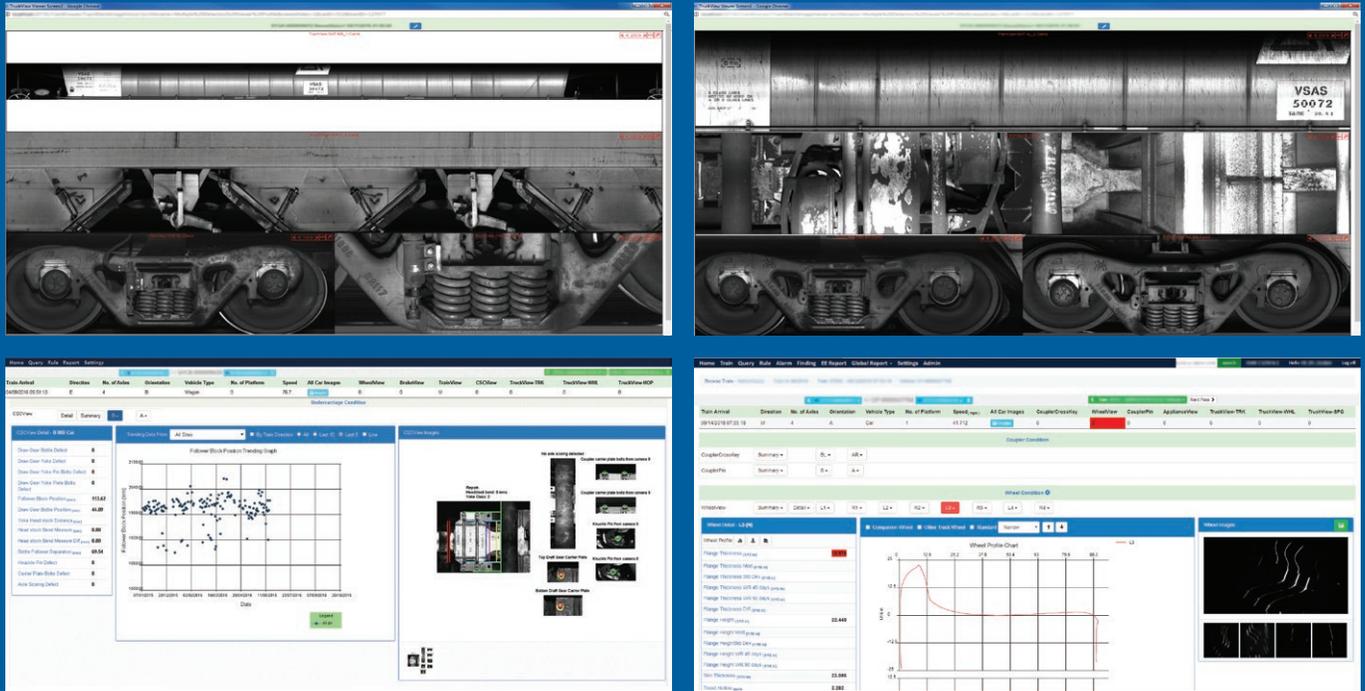
to, and more. This innovative technology can link directly to Trimble CMMS™ (Condition Monitoring Management System) software for data display.

TrainWatch supports image data from all Trimble wayside detectors including the Trimble TrainView, TruckView, and CSCView systems, together with data display from other detector technologies such as impact detectors, hot box detectors, and acoustic bearing detectors.



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## Virtual Train Inspection Portal



### Software Features

#### Inspection Modes

- ▶ **Animation:** Train motion is simulated at a desired speed.
- ▶ **Car mode:** Car by car data access with AEI identification attached.
- ▶ **Component mode:** Access and navigate through certain components.
- ▶ **Mixed mode:** Mix different modes of operation in a predefined form.

#### Display Modes

- ▶ **Synchronous:** All displayed data are synchronized in time and location.
- ▶ **Asynchronous:** Different customized cameras/cars/components display.

#### Navigation Guide

- ▶ Graphical interface to view the camera orientation.
- ▶ Assign cameras to display windows.
- ▶ Navigation bar to show the current car position within the train.
- ▶ Car list available for inspection.

#### General Functions

- ▶ Customize all displays.
- ▶ Audio support.
- ▶ Image cropping for reporting purposes.
- ▶ Excel report generation for train/car/component.
- ▶ AEI (RFID) integration.
- ▶ Email generation.

Specifications subject to change without notice.

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