# BeenaVision

## TruckView

### Automatic Wayside Truck
### *(Bogie)* Inspection System

TruckView is a wayside truck (bogie) and friction wedge inspection system designed to operate on passing trains at normal track speeds. TruckView is a vision based system which uses a high speed imaging system to provide high resolution images of every truck for inspection and measurement. Every truck is viewed from up to two angles for a reliable inspection. For North American freight trucks wedge rise measurement is provided. After the truck type is identified, wedge rise is measured in both sides of the bolster and reported. An average wedge rise is also reported. Depending on the truck type, an alarm is generated for excessive wedge rise. The system also inspects the spring condition, including its compression. This is used to compare the spring compression on two sides of the truck and evaluate the load balance of the truck and the car.

Other inspected components include bearing caps and bolts, side frame condition and mismatch, bearing adapter plate, brake hose, etc.
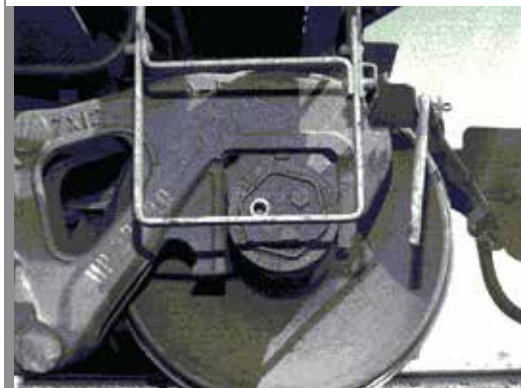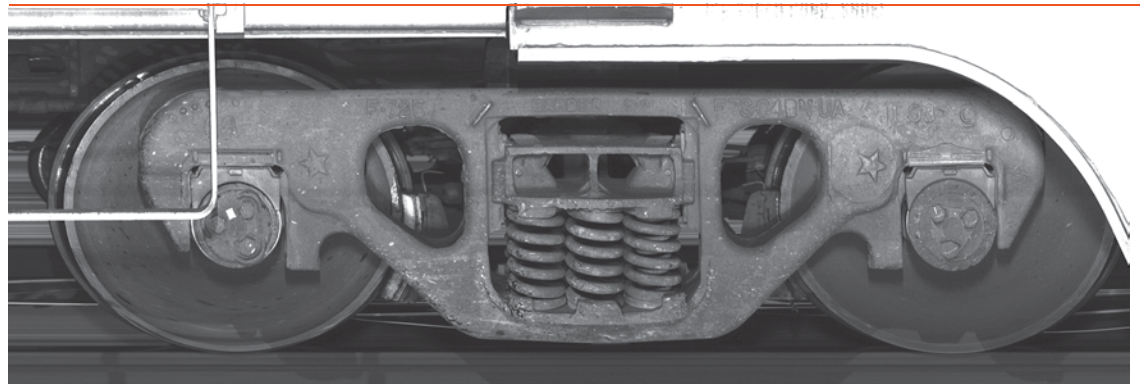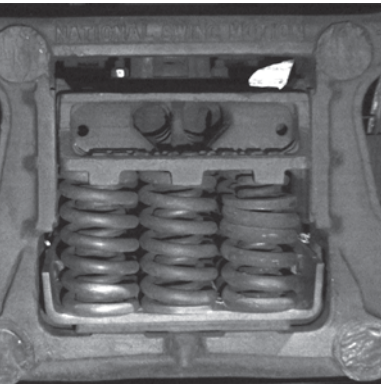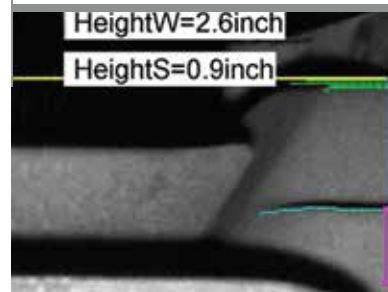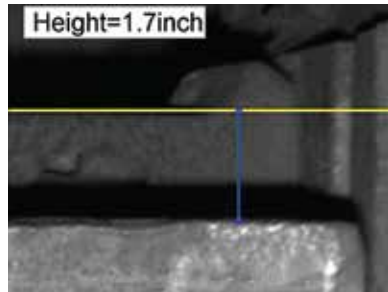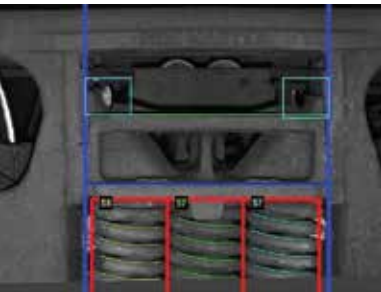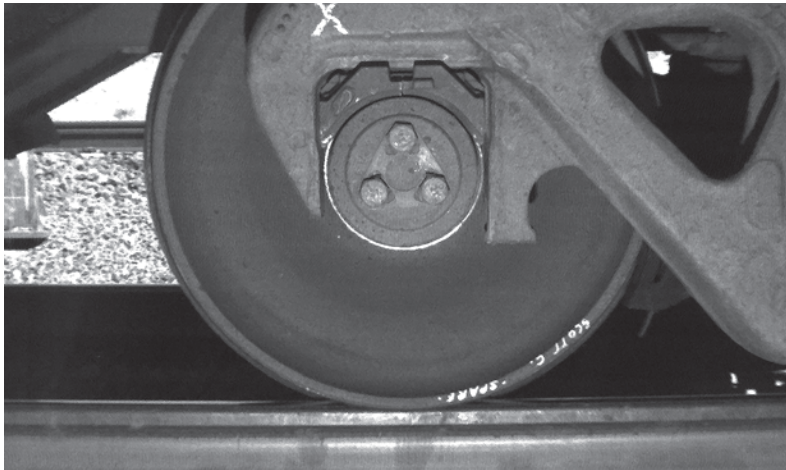
## Measurements

- ❯ Wedge Detection and Height Measurement
- ❯ Individual and Average Wedge Rise Measurement
- ❯ Alarm Generation for Excessive High Wedges
- ❯ Spring Inspection to Detect Broken or Missing Springs
- ❯ Heavy Load Imbalance
- ❯ Truck Type Identification *(Optional)*
- ❯ Bearing Cap and Cap Bolts *(Optional)*
- ❯ Side Frame Mismatch *(Optional)*
- ❯ Bearing Adapter *(Optional)*
- ❯ Sliding Wheel Detection *(Optional)*

## Features

- ❯ Speeds up to 60mph *(100 km/h)*
- ❯ Operating Temperature: -40°C to 55°C
- ❯ Automatic Alarm Generation
- ❯ Installed on Trackside Installed Towers
- ❯ No Track Structure Modification
- ❯ Easy Installation & Maintenance

## Software Features

- ❯ 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

Height=1.7inch

HeightW=2.6inch
HeightS=0.9inch