

Mining/Haul Truck Volumetric Scanner

Revolutionising Rail Productivity



Real-Time Volumetric Scanning Software for Wagon Load Optimisation

Trakblaze are now proud to release a rail industry specific volumetric scanning system that is revolutionising the loadout speed, accuracy and volumetric measurements of each train wagon. Put simply - rail loadouts become more efficient and payloads are maximised each and every time through real-time scanning.

System Description

The Auto Scan software has been developed specifically to allow direct acquisition of data from High-Speed 2D lasers over an IP network and custom developed algorithms built into the software, use captured data to generate volume information and measurement parameters for each train or wagon allowing for improved productivity through full-time monitoring of mission critical data.

The goal of the software which runs on a Microsoft™ Windows platform is for fast calculation and transportation of real time feedback and key metrics to optimise loading of each and every wagon. In turn, this assists operators in the fine tuning of loading operations.

Mobile Volumetric Scanner Revolutionising Rail Productivity



Mobile scanner



Digital readout controller

System Features

The auto scan processing software provides near real-time outputs to the industrial data network.

- A responsive design using multi-threaded technology.
- Calculation of production critical parameters in approx. less than 10 seconds.
- Easy installation and configuration.
- TCP interface to 2 x Lidar lasers to gather raw data.
- MODBUSTCP interface to provide an industry standard data delivery mechanism.
- Data items delivered to the industrial network are;
 - Front Freeboard (em)
 - Rear Freeboard (em)
 - Side Freeboard (em)
 - Volume per wagon (m3)
 - Data Valid flag (valid / not valid)
 - Laser status flag for remote maintenance monitoring (Error, Contamination, OK)

