RAIL MAPPER®

IGI®

Mobile Mapping System for Rails

360-degree Field of View

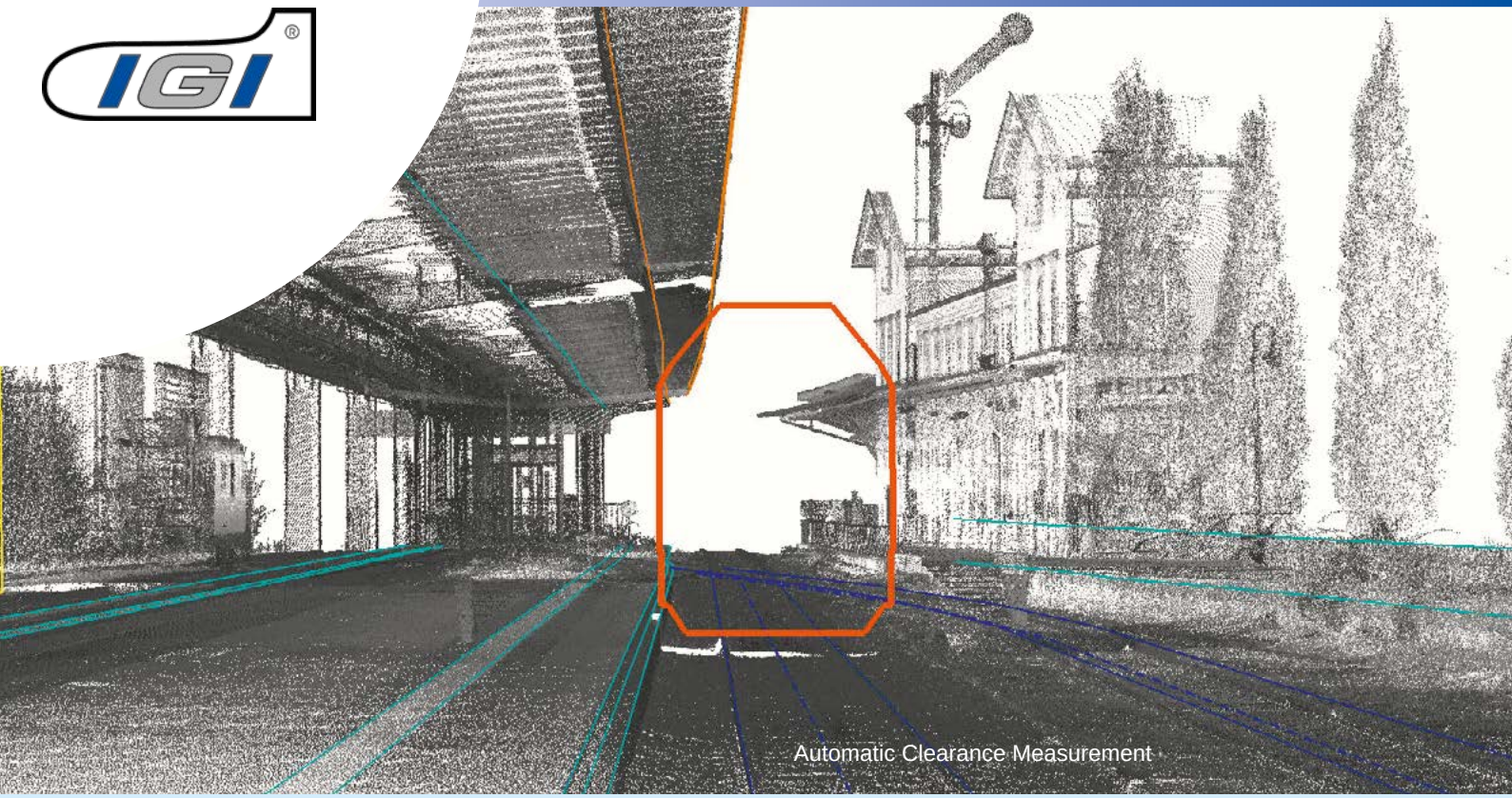
Precise Geo-Reference

Clearance Measurement

Based on the world's most accurate mobile mapping system, *StreetMapper*, the *RailMapper* is applicable for clearance measurement, sign detection, new construction, refurbishment and monitoring of rails and tunnels.
Using the very latest laser scanning technology, precision navigation and advanced data processing coupled with innovative system design, *RailMapper* delivers proven accuracies in the most challenging environments.

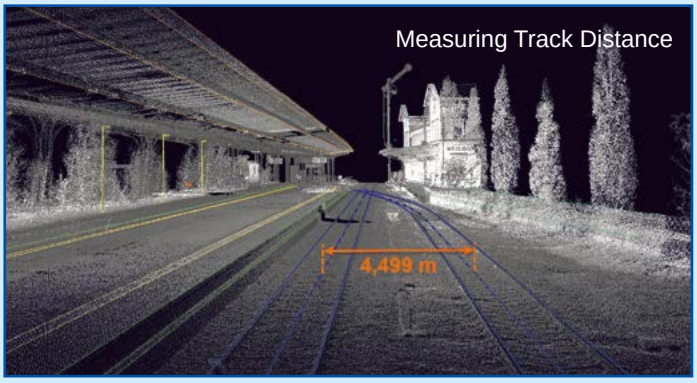
Coloured Point Cloud

RailMapper


Automatic Clearance Measurement

Precision Navigation

The onboard navigation system includes a high-end GPS/GLONASS receiver, a fibre optic gyro (FOG) based Inertial Measurement Unit (IMU), speed sensor (odometer) to assist navigation in the GNSS-denied environments. *RailMapper* is the only system on the market to offer this level of precision navigation.



Measuring Track Distance

Multi Sensor Mapping

RailMapper offers a 360-degree field of view with different sensor options. The scanners combine new, high-performance sensors. An integrated high- resolution panoramic camera can be used to capture 360-degree imagery. For thermal images the *DigiTHERM* sensor system is available.

Innovative Design

Based on IGI's Modular System Concept the package is interchangeable to different vehicles. High accuracy levels and dense point cloud data make the *RailMapper* practical for many mapping applications such as clearance measurement or rail surveying with overhead wires.
Clearance measurements are used for the safe usage of railroads by normal trains and especially for oversize trains of enormous importance. Even small objects that protrude into narrowings or minimal displacement of railroads can cause great damage and costs. Possible slight rail movements or relocation of structures both require regular inspections and surveying. Interference with daily train travel may not result from surveying activities. A prerequisite is a surveying train with a minimum speed of 90 km/h or more so that it can be used on high-speed tracks. *RailMapper* can be operated on speeds above 100 km/h and is a complete system solution with established workflow.

More info
in the web

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