

The NEW RIEGL VMX-450-RAIL Package

Typical Applications

- Clearance Analysis with Easy and Customized Documentation Collision Detection with Train Passage Simulations

 - Axis Based Measurements for Distances in Rail Accompanying System Surface Monitoring for Tunnel Analysis



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RIEGL VMX-450-RAIL Technical Data



eye safe operation at Laser Class 1



pulse repetition rate PRR (peak)



optional digital camera



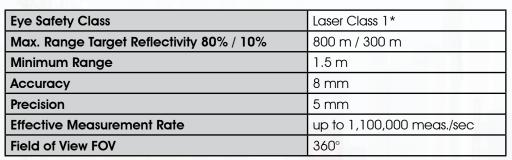
online waveform processing



max. measurement range



multiple target capability



^{*}Class 1 Laser Product according to IEC60825-1:2007

State-of-the Art Rail Road Track Survey

RIEGL VMX-450-RAIL Mobile Laser Scanning System

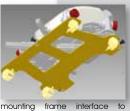
- acquisition of a 360° field of view recording trackage, overhead wiring, rail heads, and the complete periphery, even signs in orthogonal to running direction
- dense and feature-rich point clouds
- fully-calibrated measuring head for quick system setup
- optional integrated camera system and open inferfaces to various external sensors
- allows for a high degree of automation in surveying and processing

TECHNET-RAIL SiRailScan 3D Rail- and Road-Processing Software

- high precision analyzing tools for the actual geometry
- main outcomes: clearance analysis, collision detection with train passage simulations (even with complex train shapes), axis based measurements for distances in rail accompanying system, surface monitoring for, e.g. tunnel analysis
- SiRailManager: program to display and manage complete national rail track databases.



lifting frame for crane installation



different rail cars





automated extraction of based analysis for detection of minimum distance to platform



collision detection with train passage simulations based on

LASER MEASUREMENT SYSTEMS

NEW Features

- new lifting frame for crane installation
- new mechanical interface to railcars
- main cable: different lengths for coupling
- optical distance measurement indicator (technet-rail 2010)
- new control module (19 inch, rack-based), new power supply
- improved software settings for better rail point cloud data
- new software interface to SiRAILScan / technet-rail 2010 (*.pos)
- "Transformation Table" representing differences between planned and measured rail axis
- new RiPROCESS data filter to speed up workflow

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