

GEDO CE 2.0: FOR TRACK DOCUMENTATION

KEY BENEFITS

Simple, self-contained trolley captures track position, gauge and cant in a single operation

Measure long portions of track without disruption to normal rail traffic

Optical or GNSS positioning ensures confidence in location and track conditions

Fast operation reduces costs and crew size. Capture detailed information on up to 3,000 meters of track in one hour using GNSS, and more than 1,000 meters per hour with total stations

Optimize field work by merging results from multiple surveys

Export results to GIS and rail design software, and compare existing conditions to design alignment



THE TRIMBLE GEDO CE SYSTEM

Trimble GEDO CE is a suite of tools for measurement, recording, analysis and applications for railway track location, construction and maintenance. Specially tailored for railway tasks and processes, Trimble GEDO CE hardware and software streamlines work in the field and office. The system uses standard techniques and data formats to share information with leading applications for railway track design and maintenance.

TOOLS FOR TRACK DOCUMENTATION

Trimble GEDO CE Trolley

A single operator can quickly and safely capture information to document existing track. Positioning is supplied by Trimble GNSS Receivers or Trimble S-Series Total Stations. The trolley is easily removed to stay clear of railway operations.

Trimble GEDO Rec

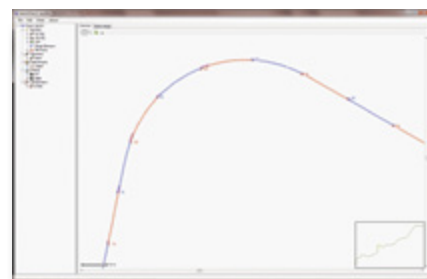
Field software optimized for track documentation and measurement. Trimble GEDO Rec runs on the Trimble TSC3 Controller.

Trimble GEDO Office

Software for processing and analysis of field data, and for data exchange with external systems.

Trimble Profiler GEDO CE 2.0

Laser measurement unit to measure object close to the track, As-Built survey, platform gauging and clearance check. The measurement can be taken relative according to the track position or by using total station or GNSS absolute coordinates can be measured additionally.



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TECHSHEET

GENERAL

Application	As-built documentation of existing track Main track, side track, tram, metro, industrial lines
System accuracy	
with total station	±1 mm* in Stop&Go Mode ±3 mm* in Kinematic Mode
with GNSS	±2 cm to 4 cm
Performance	
with total station	600 to 1,200 m/hour
with GNSS	Up to 3,000 m/hour
Measurement speed	
with total station	1 Hz (Stop&Go Mode) 10 Hz (Kinematic Mode)
with GNSS	10 Hz Real-time Kinematic
Supported positioning sensors	Trimble S6 Total Station Trimble S8 Total Station Trimble GNSS receivers, including Trimble R8 and Trimble R7 GNSS systems

TRIMBLE GEDO CE 2.0 TRACK MEASURING

Description	Track-mounted trolley
Gauge	1000 mm, 1067 mm, 1435 mm, 1520 mm, 1600 mm, 1668 mm other gauges on request
Gauge measurement	
Range	-20 mm to + 60 mm
Accuracy	±0.3 mm
Cant measurement	
Range	±10° or ±265 mm
Accuracy	±0.5 mm (static)
Weight	16,0 kg
Battery life	
Type	Trimble S-Series Li-Ion, rechargeable
Life	6-8 hours

TRIMBLE TSC3 CONTROLLER

Operating system	Windows® Embedded Handheld 6.5 Professional
Operation	Touchscreen, Keyboard
Interfaces	USB, RS232, Bluetooth®, WiFi (802.11b/g)
Environmental Protection	IP67; MIL-STD-810G
Temperature range	-30 °C to +60 °C
Weight	1.04 kg
Battery	
Type	28.9 Wh Li-Ion
Life	34 hours

TRIMBLE PROFILER GEDO CE 2.0

Weight	3,5 kg
Measurement range	0,3 m to 30 m
Typical accuracy for distance measurement	±1,5 mm



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* Depends on environment and setup.

Specifications subject to change without notice.

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