



RAILPROFILE 3D

PRECISION LASER PROFILOMETER FOR 3D MEASUREMENTS OF SWITCH PROFILES AND CROSSINGS

Elevate your railway maintenance and inspection with the Railprofile 3D, the cutting-edge laser measuring device crafted for impeccable switch measurements. This innovative tool delivers an exact 3D model of your measured object, capturing every detail in both lateral and transverse directions. Paired with our advanced software, Railprofile 3D transforms your data processing experience by seamlessly merging multiple measurements, generating precise 2D projections and longitudinal profiles, and creating comprehensive, easy-to-read reports.

TECHNICAL DATA

SPECIFICATIONS

Cross-section of the railhead and switch [measured]	Accuracy: ± 0.1 mm
Resolution	0.1 mm
Measuring increment	1 ... 10 mm
Maximum single measurement time	2 min
Dimensions (L x H x W)	Frame 1800 x 240 x 610 mm Measuring head 560 x 320 x 300 mm
Weight	Frame 29 kg Measuring head 13 kg
Memory capacity	100 measurements
Measurement technology	Non-contact optical measurement
Operating time	Up to 8 h
Operating conditions	Temperature: -20 ... +45 °C Humidity: 15 ... 85 %, no condensation

CONTENTS

- Railprofile 3D
- Chargers and two batteries
- Transport box
- Dari® software, one licence

BENEFITS

- Unmatched Precision: Achieve an exact 3D model of switches and crossings, capturing every detail
- Versatile Operation: No mechanical or magnetic fixation needed, making it suitable for various measurement scenarios
- Integrated GPS: Log measurement coordinates with pinpoint accuracy for seamless track mapping
- Dependable Data Accuracy: Maintain measurement integrity in all environmental conditions
- Clear Data Display: Guarantees data readability in all light conditions with a specialized display screen
- Uninterrupted Power: Ensure ongoing measurements with hot-swappable batteries for constant operation
- Comprehensive Software Suite: Export data to various formats like DXF and CSV for extensive analysis and in-depth reporting including an additional software module for the analysis of rail profiles

