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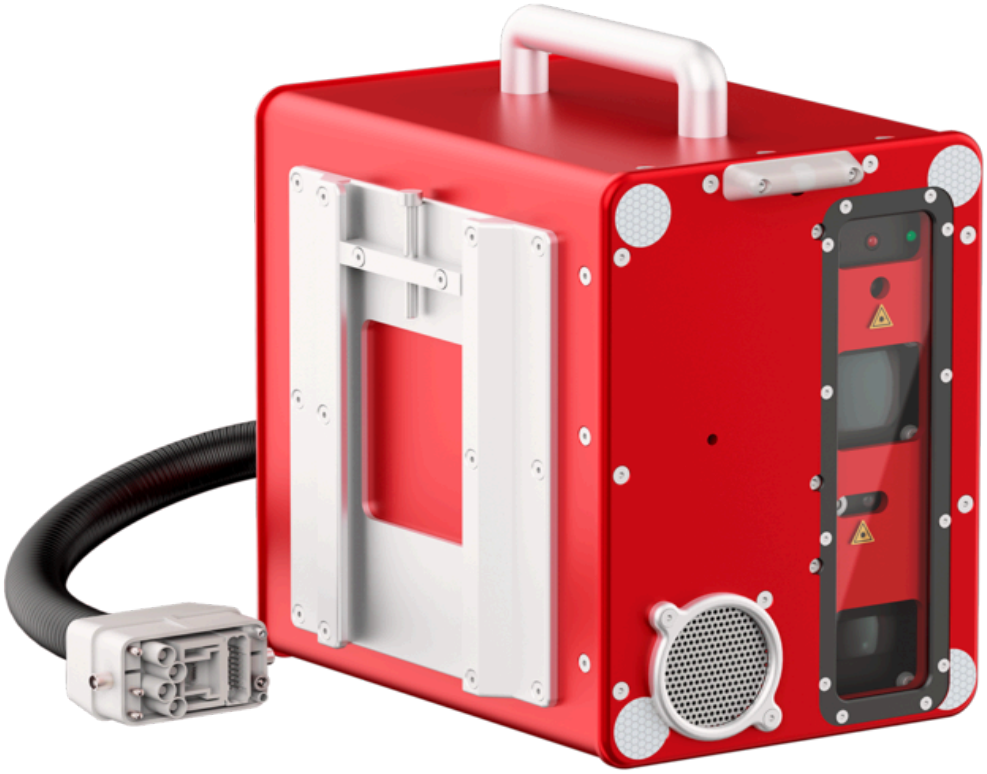

Zehntner Marking Retroreflection

ZDR 6020 RL

Vehicle-mounted retroreflectometer for safe and efficient continuous measurements

Reliability

Vehicle-mounted with 300 measurements per second guaranteeing accurate and continuous coverage for all types of colors and road markings

Accuracy

Handheld precision at up to 150 km/h (93 mph) without obstructing traffic and for all light conditions, even in bright sunlight

User Experience

Measurements can be evaluated with the free mapping and tools software on an industrial-grade touchscreen tablet with a multilingual user interface

Instrument
Tech Specs

Technology	Integrated camera for road surveillance with 10m (32.81 ft) picture sequence
Measuring Resolution	Data recording with 300 measurements per second
Display	11.6 in. touchscreen tablet with installed ZDR 6020 RetroGrabber software and microphone
Measurements	Measuring area (WxL) - ≥1000 mm x 880 mm (≥39.4“ x 34.65”) Measuring distance in front of the measuring head - 6 m (19.7 ft) Measuring speed - max. 150 km/h (93.21 mph)
Measuring Range	R_L: 0 - 4‘000 mcd•m^{-2}•lx^{-1} Profiled Markings: ≈20 mm (0.79")
Measuring Accuracy	Handheld precision at up to 150 km/h (93 mph)
Observation Angle	EN 1436: 2.29° ASTM E 1710: 1.05°
Illumination Angle	EN 1436: 1.24° ASTM E 1710: 88.76°
Reporting software	Includes mapping and data analysis software MappingTools
Weight	Measuring Head: 10.5 kg (23.1 lbs)
Operating Temperature	0°C to 55°C (32°F to 131°F)
Special Features	Languages available: German, English, Spanish, French Italian, Russian, Chinese, Korean

Standards & Guidelines	Description
ASTEM E2176 (Withdrawn 2013)	
ASTM E1710-18	Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer
ASTM E2177	Standard Test Method for Measuring the Coefficient of Retroreflected Luminance (RL) of Pavement Markings using the Bucket Method in a Condition of Wet Recovery
CIE 54.2	
EN 13197	
EN 1436	

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