

## Zehntner Marking Retroreflection

# ZDR 6020 RL

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Vehicle-mounted retroreflectometer for safe and efficient continuous measurements

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### Reliability

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



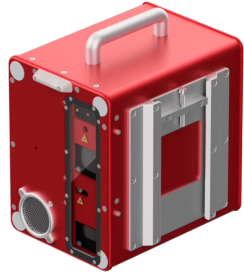
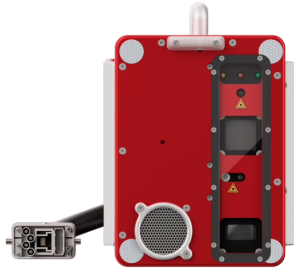
### Accuracy

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

<b>Technology</b>	Integrated camera for road surveillance with 10m (32.81 ft) picture sequence
<b>Measuring Resolution</b>	Data recording with 300 measurements per second
<b>Display</b>	11.6 in. touchscreen tablet with installed ZDR 6020 RetroGrabber software and microphone
<b>Measurements</b>	Measuring area (WxL) - $\geq 1000 \text{ mm} \times 880 \text{ mm}$ ( $\geq 39.4" \times 34.65"$ ) Measuring distance in front of the measuring head - 6 m (19.7 ft) Measuring speed - max. 150 km/h (93.21 mph)
<b>Measuring Range</b>	$R_L: 0 - 4'000 \text{ mcd}\cdot\text{m}^{-2}\cdot\text{lx}^{-1}$ Profiled Markings: $\approx 20 \text{ mm}$ (0.79")
<b>Measuring Accuracy</b>	Handheld precision at up to 150 km/h (93 mph)
<b>Observation Angle</b>	EN 1436: 2.29° ASTM E 1710: 1.05°
<b>Illumination Angle</b>	EN 1436: 1.24° ASTM E 1710: 88.76°
<b>Reporting software</b>	Includes mapping and data analysis software MappingTools
<b>Weight</b>	Measuring Head: 10.5 kg (23.1 lbs)
<b>Operating Temperature</b>	0°C to 55°C (32°F to 131°F)
<b>Special Features</b>	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ASTEM E2176 (Withdrawn 2013)	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 Retroreflector
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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