

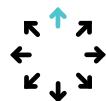


Zehntner Marking Retroreflection  
**ZRM 6014 RL-Qd**

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Day and night visibility measurement of road markings with retroreflectometry

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### Versatility

Fold-away telescopic handle and wheels standard allowing for superior portability. Gather data for night and day visibility effectively, anytime and on any road surface.



### Accuracy

Intelligent electronics paired with Swiss Made optics deliver a new benchmark of measurement, accuracy, and ultrafast retroreflectance measurement (RL and Qd) in about 2 seconds



### Productivity

Refine your measurements with precise geolocation and high-res images. The user-friendly software makes comprehensive reports quickly and with ease.



## Instrument

### Tech Specs

<b>Technology</b>	High-resolution Camera Optional compass and level-meter GPS, internal printers
<b>Display</b>	Touchscreen 5.7" colour TFT (LCD), LED backlight, VGA resolution
<b>Memory</b>	1 GB internal flash memory
<b>Measurement Modes</b>	R <sub>L</sub> dry (night visibility) R <sub>L</sub> wet (night visibility) Qd (day visibility) °C/F (ambient temperature) rH % (relative humidity)
<b>Measuring Area</b>	(WxL): 52 mm x 218 mm (2.05" x 8.58")
<b>Measuring Range</b>	R <sub>L</sub> : 0 - 4'000 mcd•m <sup>-2</sup> •lx <sup>-1</sup> Qd: 0 - 400 mcd•m <sup>-2</sup> •lx <sup>-1</sup>
<b>Measuring Accuracy</b>	Repeatability ± 2 %
<b>Observation Angle</b>	EN 1436 & ASTM E2302: 2.29° ASTM E1710: 1.05°
<b>Illumination Angle</b>	R <sub>L</sub> : EN 1436: 1.24° R <sub>L</sub> : ASTM E1710: 88.76° Qd: diffuse
<b>Reporting software</b>	Includes mapping and data analysis software MappingTools
<b>Weight</b>	7.6 kg (16.76 lbs)
<b>Operating Temperature</b>	-10°C to +50°C (14°F to 122°F)

Standards & Guidelines	Description
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
ASTM E2302	
CIE 54.2	
DB 51 T2429	
EN 13197	
EN 1436	
GB/T 16311 ( United Kingdom)	
GB/T 21383 ( United Kingdom)	
JT/T 690	

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