

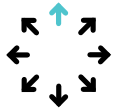


## Zehntner Marking Retroreflection **ZRM 6014 RL-Qd**

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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 retroreflection 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<br>Optional compass and level-meter<br>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)<br>R <sub>L</sub> wet (night visibility)<br>Qd (day visibility)<br>°C/°F (ambient temperature)<br>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><br>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°<br>ASTM E1710: 1.05°   |
| <b>Illumination Angle</b>    | R <sub>L</sub> : EN 1436: 1.24°<br>R <sub>L</sub> : ASTM E1710: 88.76°<br>Qd: diffuse  |
| <b>Reporting software</b>    | Includes mapping and data analysis software<br>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 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 |
| 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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