Zehntner® Road

ZRM 6010

Visibility measurement of **road markings** with retroreflectometry

Versatility

Superior ergonomics, class-defining portability, intuitive software. Gather data for night visibility effectively under any weather conditions, at day or night, on any road surface.

Accuracy

Intelligent electronics monitor the environment and adjust to stray light—the result is a new benchmark of measurement accuracy and robustness under any conditions in the field.

Productivity

Enrich your measurements with precise geolocation and high-resolution images. The user-friendly analysis software makes comprehensive reports possible quickly and with ease.

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Measurement parameters

Technology	External beam retroreflectometry
Applications	Measurement of night visibility R_L
Measurement conditions	Dry, wet and continuous wetting (rain)
Measurement modes	Single Average With wet timer With interval timer (continuous)
Surfaces	Road markings Airport markings
Measurement range	0 - 4000 mcd•m^{-2}•lx^{-1} for profiles of up to 15 mm / 0.6 in thickness
Repeatability	±2%
Reproducibility	±5%
Measuring area	52 x 489 mm / 2.1 x 19.3 in

Features

Special features	Automatic stray-light supervision and compensation for profiles of up to 15 mm / 0.6 in thickness Ultra-fast, 1-second measurement Angle-adjustable telescopic handle
Visualization features	Integrated high-resolution camera (9.5x zoom)** Map View (in MappingTools software)
Documentation features	Integrated GNSS*, compass**, level-meter** MappingTools software Data export to XLS, KMZ Reporting export to XLS

*included in Pro and Advanced version
**included in Advanced version

Device parameters

Display	5.7" touchscreen, color TFT (LCD); LED backlight; VGA resolution
Memory	Internal flash memory 1 GB; 1 million measurements (without pictures)
Connectivity	Host USB (type A), Client Mini USB (type B)
Dimensions	340 x 152 x 575 mm / 13.4 x 6.0 x 22.6 in
Weight	6.4 kg / 14.0 lbs
Standards compliance	ASTM E1710 (R_L dry) ASTM E2177 (R_L wet) ASTM E2832 (R_L continuous wetting) EN 1436 (R_L dry, R_L wet, R_L rain) JT/T 690 GB/T 16311 GB/T 21383 DB 51 T2429

Operating parameters

Built-in battery	Li-Ion; 4.4 V; 6.5 Ah
Autonomy	12 h – 16 h depending on use
Certification	StrAus-Zert (test No. 0913-2018-02)
Operating temperature	0 to 50 °C (32 to 122 °F) During charging: 0 to 40° C (32 to 104 °F)
Operating humidity	<95% RH, non-condensing
Storage temperature	-20 to 60°C (-4 to 140 °F)

Accessories

410 20 903	Portable printer
410 20 942	2nd Calibration standard
410 20 902	Voltage converter 150 W

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