



ZRP 6030 Retroreflectometer

- Portable handheld retroreflectometer for determination of the night visibility (coefficient of luminous intensity R and R_i) of road studs, ambient temperature ($^{\circ}\text{C}/^{\circ}\text{F}$) as well as relative humidity (rH %)
- For all types of retroreflective road studs
- Usable at any time of the day or night
- With intelligent memory, interfaces for PC and printer
- Measuring system with high long-term stability ensures constant measuring accuracy and thus reliable measuring results; automatic self-diagnosis avoids mismeasurements

ZRP 6030 Retroflektometer

- Portables Retroflektometer zur Bestimmung der Nachtsichtbarkeit (Rückstrahlwert R bzw. R_i) von Markierungsknöpfen, der Umgebungstemperatur ($^{\circ}\text{C}/^{\circ}\text{F}$) sowie der relativen Luftfeuchtigkeit (rF %) vor Ort und im Labor
- Für alle Arten von retroflektierenden Markierungsknöpfen
- Tageszeitunabhängig
- Intelligenter Messwertspeicher, PC- und Druckeranschluss
- Messsystem mit hoher Langzeitstabilität garantiert konstante Messgenauigkeit und somit zuverlässige Messresultate; automatische Selbstdiagnose schützt vor Fehlmessungen

The Zehntner-Retroreflector measures the night visibility (coefficient of luminous intensity R and R_{λ} , respectively) of road studs as seen by a vehicle driver driving with dipped headlight. This renders an objective determination of retroreflection possible.

Application areas

- For road authorities, road laboratories, manufacturers of road marking materials, contractors and expert witnesses
- Control of road studs after fixing and during the warranty period
- Decision on required renewal

Features

- Several values at the press of a button (coefficient of luminous intensity R and R_{λ} , respectively, ambient temperature, relative humidity)
- Menu-guided in several languages, easy to operate
- PC and printer download, printout of a detailed test report on a A4- or letter-sized paper with almost any printer
- Powerful battery; e.g. for 400 measurements per day, the battery has to be recharged only once a month
- LED with long life (over 500'000 measurements), adapted to $V(\lambda)$
- Automatic stray light supervision and correction
- Automatic calibration using the supplied standard
- Free software update and program for PC (RetroTools software). RetroTools is available for Windows 98 SP1, NT 4.0 SP5, 2000 SP2, XP, Vista, 7 and 8 versions. In addition, the Internet Explorer 4.01 or higher is required
- Data transfer to Microsoft Excel for statistics
- For better user convenience in the field, wheels, remote control incl. adjustable handle are optionally available; easy to mount and to remove, no tools required

Standard delivery

- 1 battery operated retroreflector
- 1 calibration standard
- 1 universal battery charger (100V to 240V, 50Hz to 60Hz)
- 1 data export software RetroTools
- 1 certificate of manufacturer
- 1 certificate of calibration
- 1 transportation carrying case with wheels

Options

- ACC178 wheels and remote control incl. handle
- ACC184 WAAS GPS-unit
- ACC097 data transfer cable USB
- ACC169 Bluetooth® communication adapter
- ACC547 portable USB-printer
- Fugawi GPS Mapping Software

Technical specification

Versions	Observation angle / Beobachtungswinkel	Illumination angle / Beleuchtungswinkel	Standards / Normen	Ausführungen
ZRP 6030.2	0.2°	1°	ASTM E1696 (withdrawn / zurückgezogen 2013)	ZRP 6030.2
ZRP 6030.3	0.3°	1°	EN 1463-2	ZRP 6030.3
Measuring area (WxH)	130 mm x 30 mm (5.12" x 1.18")			Messfläche (BxH)
Measuring sensor adaption	$V(\lambda)$			Mess-Sensor-Anpassung
Measuring range	0 - 2'000 mcd•lx ⁻¹			Messbereich
Memory	over 1'000 single or mean values / über 1'000 Einzel- oder Mittelwerte			Messwertspeicher
Display	luminous graphical display / grafisches Display, hintergrundbeleuchtet			Anzeige
Accumulator	Li-Ion-Mn 14,8 V / 6,3 Ah			Akku
Dimensions (LxWxH)	560 mm x 190 mm x 280 mm (22" x 7.5" x 11")			Dimensionen (LxBxH)
Dimensions road studs	max. 140 mm x 160 mm x 60 mm (5.5" x 6.3" x 2.4")			Dimensionen Markierungsknöpfe
Weight	7,1 kg (15.7 lbs) / 8,4 kg (18.5 lbs) incl. remote control / mit Fernbedienung			Gewicht
Warranty	2 years / Jahre			Gewährleistung

