

L100NX

CMM laser scanner



TECHNICAL DATA | Performance

ACCURACY

Probing error (MPE _p) ¹	6.5
Ball bar length (MPE _E) ²	6 µm + L/350 mm
Multi-stylus test (MPE _{Al}) ³	6 µm

ISO 10360-8:2013

Form ⁴	PForm.Sph.1x25:Tr:ODS,MPE	15 µm
Dispersion ⁵	PForm.Sph.D95%:Tr:ODS,MPL	26 µm
Size All ⁶	PSize.Sph.All:Tr:ODS,MPE	20 µm
Cone angle ⁷		125°

Accuracy specifications for CMM with an accuracy of 2 µm + L/350 or better using manufacturer specified test sphere and empirical qualification (L = measured length in millimetres).

¹ LK Metrology test comparable to EN/ISO 10360-2 MPE_p using 1 sigma sphere fit

² LK Metrology test comparable to EN/ISO 10360-2 MPE_E

³ LK Metrology test comparable to EN/ISO 10360-5 MPE_{Al}

⁴ PForm.Sph.1x25:Tr:ODS,MPE

⁵ PForm.Sph.D95%:Tr:ODS,MPL

⁶ PSize.Sph.All:Tr:ODS,MPE

⁷ Cone angle

Maximum probing form error using 25 representative points from data measured in translatory scanning mode.

Maximum probing dispersion value using 95% of the points measured in translatory scanning mode.

Maximum probing size error All using all measured points from data measured in translatory scanning mode.

Region of a sphere on which the measured points are selected.

PRODUCTIVITY

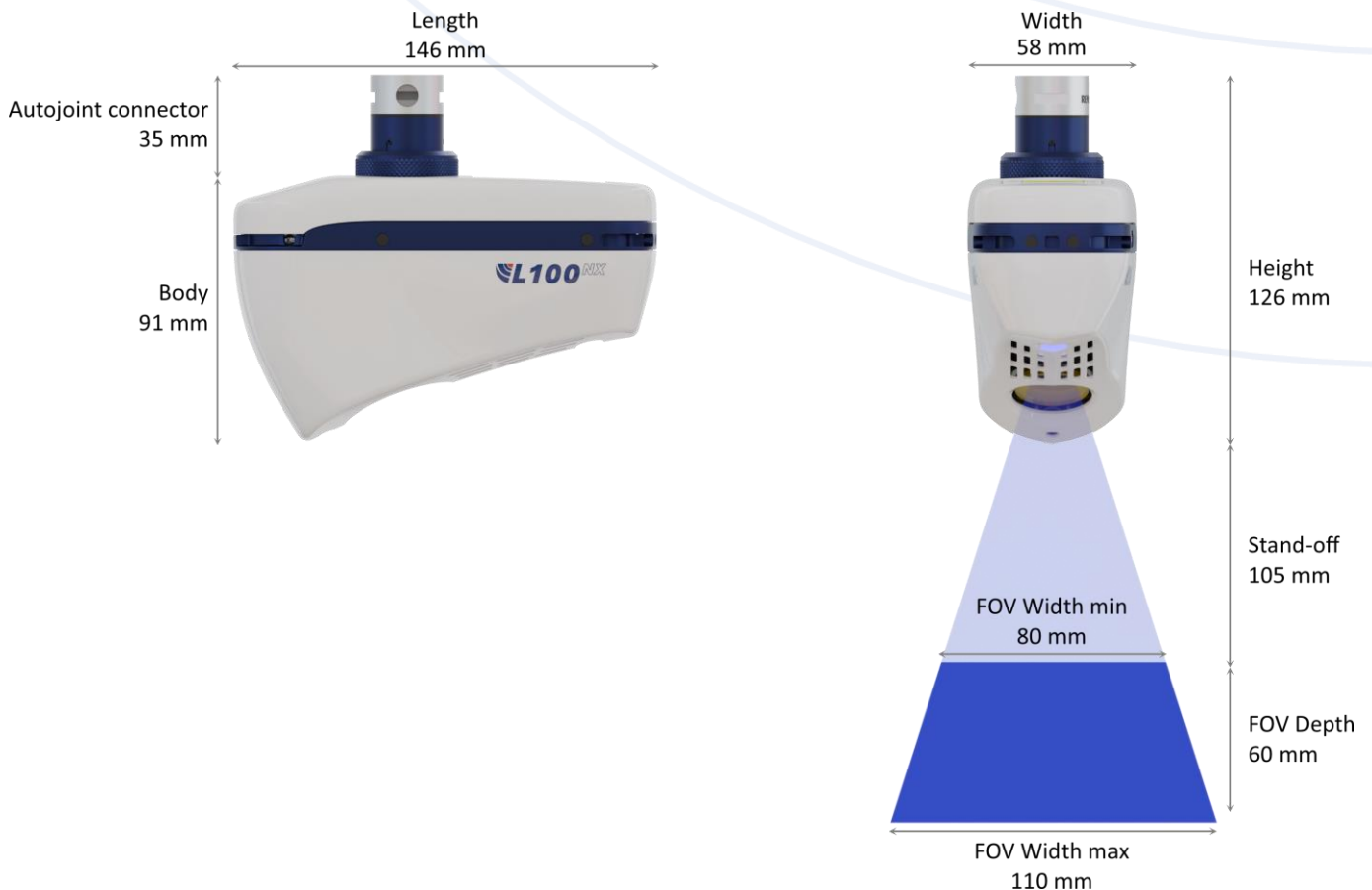
Points per second	(full Field of View)	420 000
Scan rate	(full Field of View)	210 Hz
Points per second	(reduced Field of View)	530 000
Scan rate	(reduced Field of View)	530 Hz
Points per line		2 000
Resolution		42 µm

SALES PACKAGE | L100NX Laser Scanner Kit



- L100NX laser scanner
- Reference sphere (dia. 25 mm) on support
- M8 stud
- Autojoint locking key
- Dust blower
- Micro-USB to USB cable
- Operating and safety manual
- Scanner calibration certificate
- Reference sphere verification report
- CE & UKCA Declarations of Conformity
- Storage case
 - Waterproof, crushproof, pad-lockable
 - Length 411 mm (16.2 inch)
 - Width 323 mm (12.7 inch)
 - Depth 168 mm (6.6 inch)

TECHNICAL DATA | Dimensions



TECHNICAL DATA | Design

TECHNICAL FEATURES

Laser class	2	
Laser power output (max.)	Measurement laser: 2.01 mW	Rangefinder laser: 1.00 mW
Emitted wavelength	Measurement laser: 450 nm (blue)	Rangefinder laser: 635 nm (red)
Rangefinder	Full field of view projection	
Laser power adjustment	Dynamic per point (ESP4)	
Temperature compensation	Dynamic (within operating temperature range)	
Probe head connection	Renishaw Autojoint	
Ingress protection	IP30	
Weight	460 g	

ENVIRONMENTAL REQUIREMENTS

Operating temperature	10 to 40°C (50 to 104°F)
Storage temperature	-20 to 50°C (-4 to 122°F)

WARRANTY

	12 months' standard warranty Terms and conditions apply. See LK Metrology website for full details
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CONFORMITY

	EC Directives: Low Voltage 2014/35/EU EMC 2014/30/EU RoHS 2011/65/EU	UK Regulations: Electrical Equipment (Safety) 2016/1101 EMC 2016/1091 RoHS 2012/3032
	FDA: 21 CFR 1040.10 & 1040.11	