

Product Bulletin

Title:	LK PB-2512 L100NX CMM LASER SCANNER – PRODUCT INTRODUCTION		
Author:	Kristof Peeters	Approved:	
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Distribution	LK ✓	Resellers ✓	

Introduction

LK Metrology is pleased to introduce the L100NX blue light CMM laser scanner, a next-generation **blue light laser scanner** engineered for high-precision CMM applications. Designed to deliver the **optimal balance of speed and accuracy**, the L100NX now features **significantly reduced noise levels** in scanned data—ensuring cleaner, more reliable results. The L100NX supersedes the L100 red light CMM laser scanner and now comes fully branded under **LK Metrology**, reflecting our continued commitment to innovation and quality.



Sales package

The L100NX comes in a storage case including the following items:

- L100NX laser scanner
- Reference sphere
- Autojoint locking key
- Dust blower
- Micro-USB to USB cable
- Certificates and documentation
- Storage case



To order an L100NX scanner, use the following product code:

0507824 : L100NX laser scanner kit

Software

The L100NX laser scanner is supported through the laser scanner driver software **NM API 5.0 R1** or higher. The NM API software can be found on LK Metrology Sharepoint:

[NMAPI](#)

To use the L100NX software in **CAMIO**, simply make sure NM API 5.0 R1 or higher is installed on the system. The L100NX scanner will automatically appear in the list of available scanners within CAMIO.

For **PolyWorks** and **MetrologX4** software, the support for L100NX will be added in a future version.

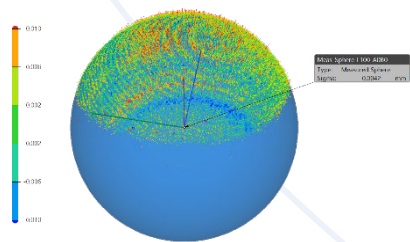
Availability

Orders can be placed as of the time of release of this bulletin. First deliveries are expected to take place in September 2025. Lead time of the L100NX scanner is 6 to 8 weeks.

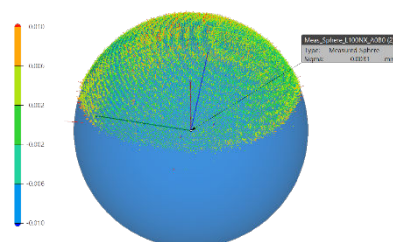
Blue laser

The L100NX's advanced blue laser technology delivers scan data with approximately 30% less noise than its red-laser predecessor, the L100. This substantial reduction in noise results in cleaner, sharper data and greatly enhances the definition of fine details on measured parts. The images below clearly illustrate the improvement in data quality from the L100 to the L100NX.

Measurement on qualification sphere

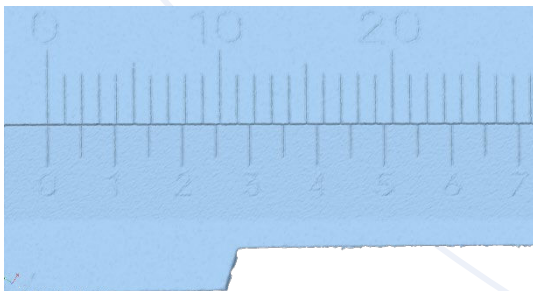


Red laser L100 - noise level: 4.2 μm

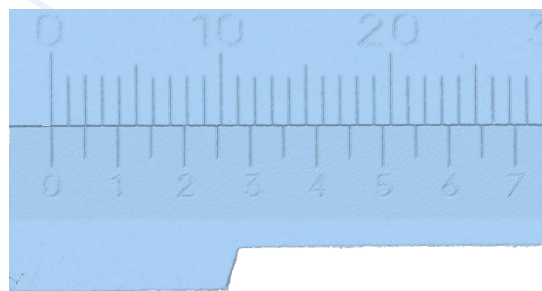


Blue laser L100NX - noise level: 3.1 μm

Measurement on Vernier caliper



Red laser L100



Blue laser L100NX

Controller

The L100NX scanner requires the use of a Scanner Controller unit. Depending on the type of installation, different Scanner Controller models are available.

Scanner Controller (in separate housing)

0503724	Scanner controller PICS interface for NM-LS
0503723	Scanner controller TTL/RS485 interface for NM-LS
0503722	Scanner controller PICS & encoder interface for NM-LS

Scanner Controller Card (for direct integration in CMM controller)

0503729	Scanner controller card PICS interface for NM-LS
0503728	Scanner controller card TTL/RS485 interface for NM-LS

Compatibility

The L100NX operates in the same way as other NM-LS type laser scanners and therefore requires a Renishaw multiwire in the CMM.

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LK CMMs that are listed in the pricelist as “LC/L/XC compatible” or “NM laser scanner ready” are compatible with the L100NX scanner.

Service

The following service items are available for the L100NX:

0503709 : L100 / L100NX calibration and service

0503713 : L100 / L100NX 1-year extended warranty with calibration and service

Calibration and repair of the L100NX is done at the LK UK Derby factory.

L100 obsolescence

The L100NX scanner replaces the existing red laser L100 scanner. As such the L100 will no longer be offered for sale and will thus be obsolete as of now. Limited stock is still available in case an L100 is explicitly requested. Please contact the manufacturing team in Derby – UK to check availability.

Technical specifications

Below are the technical specifications of the L100NX at the time of release of the product. For the latest update of the technical specifications, make sure to refer to the Sales datasheet in the links at the end of this document.

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.

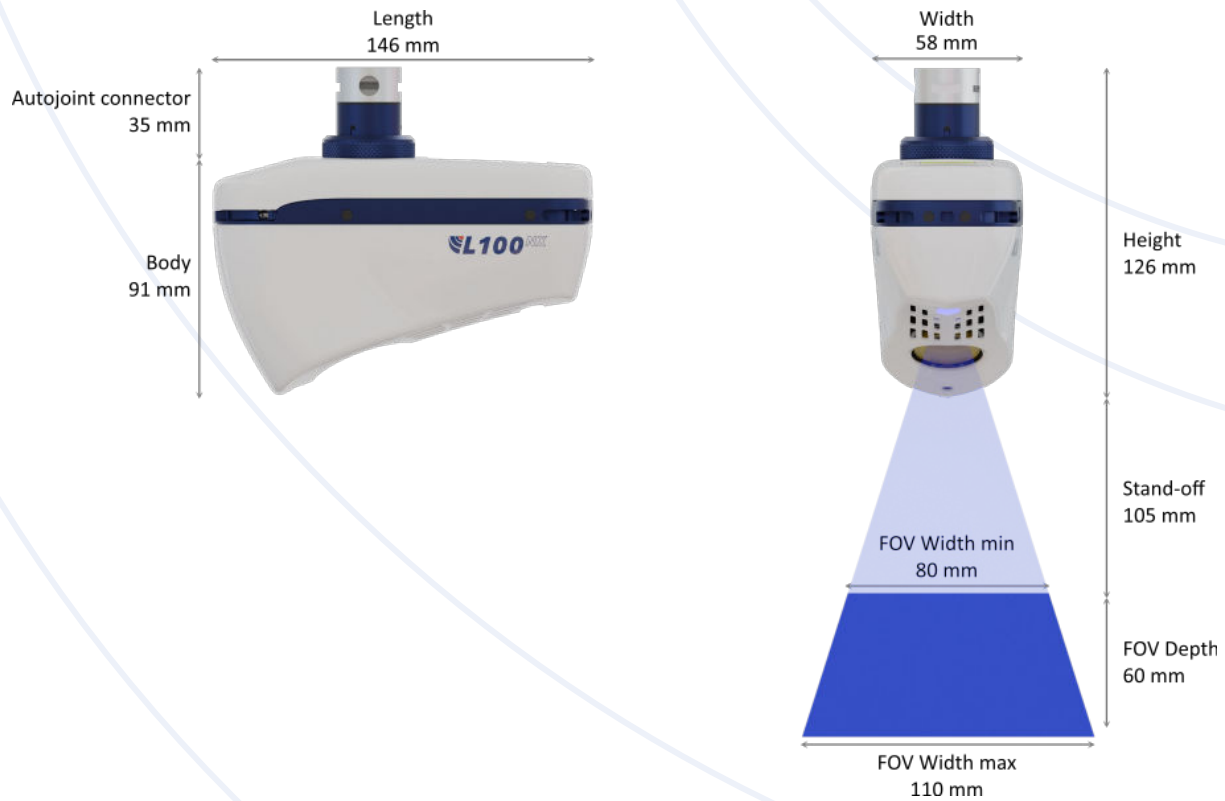
Region of a sphere on which the measured points are selected.

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

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Dimensions



Related Documents

For more product information visit the L100NX CMM laser scanner product page.

Product Bulletin	LK PB-2512 L100NX CMM LASER SCANNER – PRODUCT INTRODUCTION
Sales flyer	EN DE IT
Sales datasheet	DS L100NX-EN
Price lists	EUR GBP USD
Images	Renders