



CMM laser scanning

XC65DX(-LS)



The ultimate scanner  
for feature  
measurement and more

# Features and benefits



## BENEFITS

- Full 3D capture of complex surfaces and features geometry in a single scan
- Scans any material without spraying
- Faster feature inspection by eliminating scanner re-orientation
- Easy macro-based part programming accelerates measurement preparation
- Seamless retrofit with most leading CMM brands

## KEY FEATURES

- Patented multi-stripe laser technology observes part from 3 directions
- High-speed digital technology boosts scanning frequency
- Unique point-per-point laser intensity adaptation
- Non-contact laser scanning is ideal to measure flexible or fragile parts
- XC65Dx-LS long stand-off variant for optimum capture into deep pockets and slots

## APPLICATIONS

- Freeform surface inspection and feature measurement on sheet metal vehicle body parts
- Driveline casting inspection (engine castings, etc.)
- Inspection of plastic molding and blow molding components (composite fuel tanks, plastic body parts, etc.)
- Gap and flush inspection on car panels

## TECHNICAL SPECIFICATIONS

	XC65Dx	XC65Dx-LS
<b>Scanning speed</b>	Cross Scanner mode: 3 x 25,000 pts/s Line scanner mode: 1 x 75,000 pts/s 75 lines/s	Cross Scanner mode: 3 x 25,000 pts/s Line scanner mode: 1 x 75,000 pts/s 75 lines/s
<b>Stripe width</b>	3x65 mm (3x2.56")	3x65 mm (3x2.56")
<b>Measurement depth</b>	3x65 mm (3x2.56")	3x65 mm (3x2.56")
<b>Stand-off distance</b>	75 mm (2.95")	170 mm (6.69")
<b>Multi-stylus test (MPE<sub>AL</sub>)<sup>1</sup></b>	9 µm (0.00035")	9 µm (0.00035")
<b>ISO Probing form error<sup>2</sup></b>	25 µm (0.00098")	35 µm (0.00138")
<b>ISO Probing size error all<sup>3</sup></b>	45 µm	80 µm
<b>ISO Probing dispersion value<sup>4</sup></b>	48 µm	60 µm
<b>ISO Cone angle<sup>5</sup></b>	115°	125°
<b>Laser power adjustment</b>	ESP3 real-time per point	ESP3 real-time per point
<b>Dimensions</b>	155x86x142 mm (6.1x3.4x5.6")	155x86x142 mm (6.1x3.4x5.6")
<b>Weight (approx.)</b>	440 g (0.97 lbs)	480 g (1.06 lbs)
<b>Probe head compatibility</b>	PH10M(i)(Q), CW43, PHS	PH10M(i)(Q), CW43, PHS
<b>Laser safety</b>	Class 2	Class 2

<sup>1</sup> Comparable to EN/ISO10360-5, for a CMM with accuracy of 2µm + L/350 or better

<sup>2</sup> ISO 10360-8:2013: P<sub>Form,Sph,1x25;Tr,ODS,MPE</sub> : "Maximum probing form error" using 25 representative points in translatory scanning mode

<sup>3</sup> P<sub>Size,Sph,All;Tr,ODS,MPE</sub> : Maximum probing size error All using all measured points in translatory scanning mode

<sup>4</sup> P<sub>Form,Sph,95%;Tr,ODS,MPE</sub> : Maximum probing dispersion value using 95% of the measured points in translatory scanning mode

<sup>5</sup> Cone angle : Region of sphere on which the measured points are selected

For a complete list of specifications, please request the datasheet.

**CLASS 2 LASER PRODUCT**  
Max output = 4.0 & 1 mW (XC65Dx)  
Max output = 5.6 & 1 mW (XC65Dx-LS)  
660 & 635nm  
IEC 60825-1 Edition 2.0 2007-03



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