



XC65Dx(-LS)

Digital Cross Scanners



The ultimate scanner
for feature measurement and more

Nikon
100th
anniversary

NIKON METROLOGY | VISION BEYOND PRECISION

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

- Sheet metal vehicle body parts
- Driveline casting inspection (engine castings, etc.)
- Plastic molding and blow molding (composite fuel tanks, plastic body parts, etc.)
- Inspection of 2D and complex 3D features
- Gap and flush of door/fender splines

TECHNICAL SPECIFICATIONS

	XC65Dx	XC65Dx-LS
Scan speed	Cross Scanner mode: 3 x 25,000 pts/s Line scanner mode: 1 x 75,000 pts/s 75 lines/s	
Width of view	3x65 mm (3x2.56")	3x65 mm (3x2.56")
Depth of view	3x65 mm (3x2.56")	3x65 mm (3x2.56")
Stand-off distance	75 mm (2.95")	170 mm (6.69")
Multi-stylus test (MPE _{AL}) ¹	9 µm (0.00035")	9 µm (0.00035")
ISO Probing form error ²	25 µm (0.00098")	35 µm (0.00138")
Dimensions	155x86x142 mm (6.1x3.4x5.6")	155x86x142 mm (6.1x3.4x5.6")
Weight (approx.)	440 g (0.97 lbs)	480 g (1.06 lbs)
CMM mounting	Renishaw PH10M(Q) motorized indexing probe head with Multiwire	
Laser class	2 (Visible)	

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

² ISO 10360-8:2013: P_{form,Sph,1x25,Ti,ODS,MPE} - "Maximum probing form error" using 25 representative points in translatory scanning mode

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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