



XC65Dx(-LS)
Digital Cross Scanners



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, and accessing other hard-to-reach locations

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 25,000pts/s Line scanner mode: 1 x 75,000pts/s 75 lines/s	
Width of view	3x65mm (3x2.56")	3x65mm (3x2.56")
Depth of view	3x65mm (3x2.56")	3x65mm (3x2.56")
Stand-off distance	75mm (2.95")	170mm (6.69")
Probing error	12µm (0.00047")	15µm (0.00059")
Multi-stylus test (MPE _{av}) ¹	9µm (0.00035")	9µm (0.00035")
Dimensions	155x86x142mm (6.1x3.4x5.6")	155x86x142mm (6.1x3.4x5.6")
Weight (approx.)	440g (0.97lbs)	480g (1.06lbs)
CMM mounting	Renishaw PH10M(Q) motorized indexing probe head with Multiwire	
Laser class	2M (Visible)	

¹ Comparable to EN/ISO 10360-5, for a CMM with accuracy of 2µm + L/350 or better

XC65D_EN_0511 - Copyright Nikon Metrology NV 2011. All rights reserved. The materials presented here are summary in nature, subject to change and intended for general information only.



NIKON METROLOGY NV

Geldenaaksebaan 329
B-3001 Leuven, Belgium
phone: +32 16 74 01 00 fax: +32 16 74 01 03
info@nikonmetrology.com

NIKON METROLOGY EUROPE NV
tel. +32 16 74 01 01
sales_europe@nikonmetrology.com

NIKON METROLOGY GMBH
tel. +49 6023 91733-0
sales_germany@nikonmetrology.com

NIKON METROLOGY SARL
tel. +33 1 60 86 09 76
sales_france@nikonmetrology.com

NIKON METROLOGY, INC.
tel. +1 810 2204360
sales_us@nikonmetrology.com
us.nikonmetrology.com
www.nikoninstruments.com

NIKON METROLOGY UK LTD.
tel. +44 1332 811349
sales_uk@nikonmetrology.com

NIKON CORPORATION

Shin-Yurakucho Bldg., 12-1, Yurakucho 1-chome
Chiyoda-ku, Tokyo 100-8331 Japan
phone: +81 3 3773 9026 fax: +81 3 3773 9062
www.nikon-instruments.jp/eng/

NIKON INSTRUMENTS (SHANGHAI) CO. LTD.
tel. +86 21 5836 0050
tel. +86 10 5869 2255 (Beijing office)
tel. +86 20 3882 0550 (Guangzhou office)

NIKON SINGAPORE PTE. LTD.
tel. +65 6559 3618

NIKON MALAYSIA SDN. BHD.
tel. +60 3 7809 3609

NIKON INSTRUMENTS KOREA CO. LTD.
tel. +82 2 2186 8400