

Datasheet

SLK25

VIVID technology CMM laser scanner



TECHNICAL DATA | Performance

ACCURACY¹

ISO 10360 -8:2013

100 10000 011010			
Form	PForm.Sph.1x25:Tr:ODS,MPE	6 μm	
Dispersion	PForm.Sph.D95%:Tr:ODS,MPL	8 μm	
Size	PSize.Sph.1x25:Tr:ODS,MPE	10 μm	
Articulated location LDia.5x25:Art:ODS,MPL		15 μm	
Cone angle		115°	

PRODUCTIVITY

Points per second		268,800
Points per line		1,920
Resolution ²	near mid far	12 13 14 μm
Scan rate		140 Hz

Conformance is proven when all errors of indication lie within or on the accuracy specification limits MPE/MPL

Conformance is unproven when one or more errors of indication lie outside the accuracy specification limits MPE/MPL

¹ 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).

PForm.Sph.1x25:Tr:ODS,MPE PForm.Sph.D95%:Tr:ODS,MPL PSize.Sph.1x25:Tr:ODS,MPE LDia.5x25:Art:ODS,MPL

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 using 25 representative points from data measured in translatory scanning mode.

Maximum articulated location value using the centres of a sphere measured using five PH10 head positions in articulation mode. Region of a sphere on which the measured points are selected.

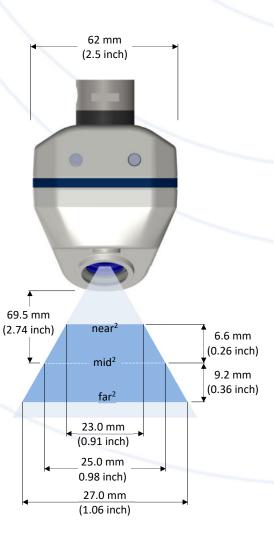
² Typical values, may vary up to 10% due to optical tolerances.

TECHNICAL DATA | Dimensions





² Typical values, may vary up to ±10% due to optical tolerances.



TECHNICAL DATA | Accuracy Verification

SLK25 is supplied fully traceable to the internationally recognised accuracy certification standard ISO 10360-8 for CMM laser scanners, giving users complete confidence in the reliability of their measurements.



Range of the radial distances between the centre of a measured sphere and 25 representative points.



Smallest width of a spherical shell encompassing 95% of the points from a measured sphere.



Difference between the measured diameter of a sphere using 25 representative points and its calibrated diameter.



Smallest diameter of a sphere containing the centres of a sphere measured using five probe head positions.



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

SALES PACKAGE | VIVID SLK25 CMM Laser Scanner Kit



- VIVID SLK25 CMM Laser Scanner
- Sphere Re-qualification Kit Ø12 mm (0.47 inch) sphere 100 mm (3.93 inch) stand 60 mm (2.36 inch) stand extension M10 and M8 mounting adapters
- Probe head autojoint key
- ISO 10360 Calibration Certificate
- End user licence USB key
- Microfibre lens cleaning cloth
- Storage case
 Waterproof
 Crushproof
 Pad-lockable
 Length 300 mm (11.8 inch)
 Width 249 mm (9.8 inch)
 Depth 119mm (4.7 inch)
- Safety Guide

TECHNICAL DATA | Design

TECHNICAL FEATURES

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Laser class	2		
Emitted wavelength	450 nm (blue)		
Maximum ambient light	10,000 lx		
Probe head compatibility	PH10M PLUS, PH10MQ PLUS, PHS-2		
Ingress protection	IP65 (except for mounting interface)		
Weight	SLK25 only: 0.25 kg [0.5 lbs]	SLK25 kit and case: 2.45 kg [5.4 lbs]	

ENVIRONMENTAL REQUIREMENTS

Metrological temperature	18 to 22°C (64.4 to 71.6°F)	
Operating temperature	0°C to 40°C (32°F to 104°F)	
Storage temperature	-20°C to 70°C (-4 to +158°F)	
Relative humidity	Maximum 90%, non-condensing	

WARRANTY

12 months' warranty as standard Terms and conditions apply see LK Metrology website for full details

CONFORMITY



Eye safety EN/IEC 60825-1:2014 EMC test as per EN 61 000-6-2, EN 61 000-6-4

Vibration/ Shock test as per EN 60 086-2-6, -27, -29, -64

Electrical safety as per EN 61 010-1-3 Protection class III, as per EN 61 040-3

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VIVID SLK25 DS (0923)