XLP Laser Scanning Probe Models 250, 500, 1000

3D SCANNERS

XLP laser probes are fully integrated with Laser Design's Surveyor 3D scanning systems and are easily integrated with 7-axis portable CMM arms, as well as any traditional CMM.

XLP probe models are available in a variety of laser line lengths with varying accuracy levels.

Probe Features

- Industry best accuracy, resolution, and speed for laser line scanning technology
- Automated, programmable 3 to 6 axis scanning control
- Factory calibration to NIST traceable
- Plug and play for existing users
- Gigabit Ethernet connection vs. USB
- Windows 7 and 8 compatibility
- Multiple CMM controllers compatibility + portable arm
- Rugged design

Probe Benefits

- Fast program set up
- Ability to scan shiny parts without the use of special coatings
- 50% improved accuracy and 30% higher resolution compared to previous generation (SLP Laser Probe)
- High speed data collection, 70% faster scan rate compared to previous generation (SLP Laser Probe)
- Clean room applications
- Shorter inspection times
- Factory floor compatible

Application Tools Library for Integrators

- The Application Tools Library contains all the tools essential for data capturing, buffering, and outputting profile data. Consisting of ActiveX controls and available in object form for all popular PC-based development enviornments, the library provides a straightforward integration path for application software developers and system integrators.

With the ability to to scan everything from small highly detailed parts, to large automotive and aerospace parts, XLP probes are the answer for precise laser scanning.

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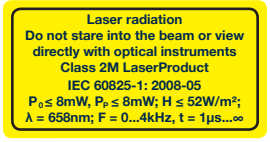
Specifications

	XLP 250	XLP 500	XLP 1000
Standoff distance			
Near	53 mm	65 mm	125 mm
Mid	66 mm	95 mm	240 mm
Far	79 mm	125 mm	390 mm
Depth of Field	26 mm	60 mm	265 mm
Line Length			
Near	23 mm	40 mm	59 mm
Mid	25 mm	50 mm	100 mm
Far	29 mm	60 mm	144 mm
Accuracy[1]	6µm	12µm	24µm
Repeatability[2]	6µm	12µm	24µm
Resolution (Point Spacing)	19µm	39µm	78µm
CMM Interface	PH10M or LDI Laser Wrist		
Typical Application	Small to medium parts	Small to large parts	Medium to large parts
Sample count	1280 points/line		
Sample Rate	100 Hz 128,000 points/sec		
Weight (probe only)	500g (target)		
Size (h x w x d)	155x145x56mm		
Minimum Angle of Incidence	25 degrees		
Laser Power Output	8mW (class 2M)		
Laser Wavelength	658 nm		
Permissible Ambient Light (fluorescent light)[3]	10,000lx		
Protection Class	IP 65		
EMC	Acc. EN 61326-1:2006-01 DIN EN 55011: 2007-11 (group 1, class B) EN 61000-6-2: 2006-03		
Operating Temperature	0°C to 45°C		
Storage Temperature	-20°C to 70°C		
Supply	11-30VDC, 24V, 500mA IEEE 802.3af class2, Power over Ethernet		
Trigger	RS422		

1 Accuracy is the allowable 3σ error of the measured position of a vertex target at 12 positions within the Laser Field of View, repeated 10 times.
2 Repeatability is the allowable 3σ error of the measured position of a vertex target repeated 10 times for 12 positions within the Laser Field of View.
3 Measuring Object: Metallic, diffusely reflecting material



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Contact Laser Design today for more information
952.884.9648 | info@laserdesign.com | www.laserdesign.com