

FARO Edge ScanArm® Laser Line Scanning with a competitive advantage

FARO®



Exceptional speed

Using advanced CMOS technology, the FARO Laser Line Probe (LLP) produces over 45,000 points of three-dimensional data per second.

Light weight

The handle with the FARO Laser Line Probe attachment weighs in at 222.4g. The LLP only adds an amazing 76.6g.

Incredibly small and unobtrusive

The FARO Laser Line Probe can be permanently attached without interfering with your regular workflow.

Expanded coverage

With a laser stripe that is nearly 90mm wide to capture more data with fewer scan passes.

Fully integrated scanning

No need for interface box or external wiring.

Wireless scanning

The FARO Laser Line Probe is fully compatible with the Bluetooth®, WLAN, USB, and Ethernet ready technologies used in the FARO Edge.

Enhanced range finder

Built-in LED indicator lights to provide feedback when you are in optimum scanning range.

The all new FARO Laser Line Probe (LLP) adds unparalleled non-contact measurement capabilities to your FARO Edge. With a wider laser stripe, it significantly increases scan coverage without sacrificing accuracy while providing exceptional speed and feature definition. Taking advantage of the Edge's multi-function, quick-change handle port, the LLP integrates seamlessly and instantly becomes part of the arm. With its light weight, compact design, it is completely unobtrusive. The LLP delivers the best performance at the lowest price in the industry for a handheld laser scanning system.

Most Common Applications

Aerospace: Reverse engineering, certification, part inspection

Automotive: Tool building & certification, alignment, part inspection

Metal fabrication: OMI, first article inspection, periodic part inspection

Moulding/tool & die: Mould and die inspection, prototype part scanning

Benefits

- ▶ Scanhead positioned for better ergonomics and unobstructed hard probing
- ▶ Use laser and hard probes seamlessly
- ▶ Laser scan up to 45,120 points per second
- ▶ No intermediary software running in the background

FARO Laser Line Probe Specifications

Accuracy:	±35µm (±0.0014")	Points per line:	752 points/line
Repeatability:	35µm, 2σ (0.0014")	Scan rate:	60 frames/second x 752 points/line = 45,120 points/sec.
Stand-off:	80mm (3.15")	Laser:	660nm, CDRH Class II/IEC Class 2M
Depth of field:	85mm (3.35")	Weight:	222.4g (0.49lbs.)
Effective scan width:	Near field 53mm (2.09") Far field 90mm (3.5")		

Performance Specifications

Non-Contact

Measurement Range	1.8m (6ft.)	2.7m (9ft.)	3.7m (12ft.)
Edge (7 Axes)	0.069mm (0.0027in.)	0.076mm (0.0030in.)	0.126mm (0.0049in.)

Contact

Measurement Range	Repeatability ¹	Accuracy ²	FaroArm Weight
Edge (7 Axes) 1.8m (6ft.)	0.024mm (0.0009in.)	±0.034mm (±0.0013in.)	10.7kg (23.6lbs.)
Edge (7 Axes) 2.7m (9ft.)	0.029mm (0.0011in.)	±0.041mm (±0.0016in.)	10.9kg (24.1lbs.)
Edge (7 Axes) 3.7m (12ft.)	0.064mm (0.0025in.)	±0.091mm (±0.0035in.)	11.3kg (24.9lbs.)

FaroArm test methods - (Test methods are a subset of those given in the B89.4.22 standard.)

¹ Single point articulation performance test (Max-Min)/2: The probe of the FaroArm is placed within a conical socket, Q and individual points are measured from multiple approach directions. Each individual point measurement is analysed as a range of deviations in X, Y, Z. This test is a method for determining articulating measurement machine repeatability.

² Volumetric maximum deviation: Determined by using traceable length artifacts, which are measured at various locations and orientations throughout the working volume of the FaroArm. This test is a method for determining articulating measurement machine accuracy.

Hardware Specifications

Operating temp range:	10°C - 40°C (50°F - 104°F)
Temperature rate:	3°C/5min. (5.4°F/5min.)
Operating humidity range:	95%, noncondensing
Power supply:	Universal worldwide voltage 100-240VAC 47/63Hz

Certifications: Complies with the following EC Directives: 93/68/EEC CE Marking; 2004/108/EC ELECTRICAL EQUIPMENT; 1999/5/EC R&TTE Directive; 2002/95/EC - RoHS • Conforms to the following standards: EN 61010-1:2001 / CSA-C22.2 No. 61010-1; EN 61326-1:2006; IEC 60825-1:2007; FDA (CDRH) 21 CFR 1040.10 / ANSI Z136.1-2007; IEEE 802.11 b/g; FCC Part 15 Subpart C / IC RSS-210 and ESTI EN 300/301 (WLAN and Bluetooth) Pat. 5402582, 5611147, 5794356, 6366831, 6606539, 6904691, 6925722, 6935036, 6973734, 6988322, 7017275, 7032321, 7043847, 7051450, 7069664, 7269910, 7735234, 7784194, 7804602, 7881896, RE42055, RE42082

FARO offers optional VDI/VDE 2617-9 certification for an additional charge. Please ask your sales representative for details.



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