FARO Edge ScanArm®
Laser Line Scanning with a competitive advantage

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")
**Repeatability:** 35µm. 2σ (0.0014")
**Stand-off:** 80mm (3.1")
**Depth of field:** 85mm (3.35")
**Effective scan width:** Near field 53mm (2.09")
 Far field 90mm (3.5")

Points per line: 752 points/line
Scan rate: 60 frames/second x 752 points/line
= 45,120 points/sec.
Laser: 660nm, CDRH Class II/IEC Class 2M
Weight: 222.4g (0.49lbs.)

Performance Specifications

**Non-Contact**

<table>
<thead>
<tr>
<th>Measurement Range</th>
<th>1.8m (6ft.)</th>
<th>2.7m (9ft.)</th>
<th>3.7m (12ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edge (7 Axes)</td>
<td>0.069mm (0.0027&quot;&quot;)</td>
<td>0.076mm (0.0030&quot;&quot;)</td>
<td>0.126mm (0.0049&quot;&quot;)</td>
</tr>
</tbody>
</table>

**Contact**

<table>
<thead>
<tr>
<th>Measurement Range</th>
<th>Repeatability¹</th>
<th>Accuracy²</th>
<th>FaroArm Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edge (7 Axes)</td>
<td>0.024mm (0.0009&quot;&quot;)</td>
<td>±0.034mm (±0.0013&quot;&quot;)</td>
<td>10.7kg (23.6lbs.)</td>
</tr>
<tr>
<td>1.8m (6ft.)</td>
<td>0.029mm (0.0011&quot;&quot;)</td>
<td>±0.041mm (±0.0016&quot;&quot;)</td>
<td>10.9kg (24.1lbs.)</td>
</tr>
<tr>
<td>2.7m (9ft.)</td>
<td>0.064mm (0.0025&quot;&quot;)</td>
<td>±0.091mm (±0.0035&quot;&quot;)</td>
<td>11.3kg (24.9lbs.)</td>
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</tbody>
</table>

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 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


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