



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

### **FARO Technologies (Thailand) Ltd**

**No 11,1st-4th Floor Soi Bangna-Trad 34  
Bangna, Bangna, Bangkok 10260 Thailand**

Fulfills the requirements of

### **ISO/IEC 17025:2017**

In the field of

### **CALIBRATION**

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 25 January 2022

Certificate Number: L1147.13-1



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory  
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### FARO Technologies (Thailand) Ltd

No 11,1st-4th Floor Soi Bangna-Trad 34  
Bangna, Bangna, Bangkok 10260 Thailand  
Natruemas Wetham (Customer Service): +66 20268743  
Adrian Lim (Total Quality): +65 65111372

### CALIBRATION

Valid to: **January 25, 2022**

Certificate Number: **L1147.13-1**

#### Length-Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) <sup>2</sup>	Reference Standard, Method, and/or Equipment
Articulated Arm Coordinate Measurement Machine (AACMM):			ASME B89.4.22-2004 at 5.2, 5.3 and 5.4 ISO 10360-2:2001
Volumetric Performance	(0 to 0.9) m (0 to 2.2) m	(0.35 + 0.45L) μm 3.5 μm	Ball Bar Kinematic Scale Bar
Effective Diameter	(3 to 25.4) mm	1 μm	Test Sphere
Articulated Arm Coordinate Measurement Machine (AACMM):			ISO 10360-12:2016 6.2, 6.3, 6.4
Probing Size Error (PSize)	Sphere Diameter: 25.4 mm	1 μm	Test Sphere
Probing Form Error (PForm)	Sphere Diameter: 25.4 mm	0.9 μm	Test Sphere
Articulated Location Error (LDia)	Sphere Diameter: 25.4 mm	1.7 μm	Test Sphere
Length Measurement Error, Unidirectional (EUni)	(0 to 1.05) m (0 to 1.36) m (0 to 1.8) m (0 to 2.11) m (0 to 2.42) m (0 to 2.64) m	3.1 μm 3.7 μm 4.0 μm 5.7 μm 6.4 μm 8.4 μm	Kinematic Scale Bar

**Length-Dimensional Metrology**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) <sup>2</sup>	Reference Standard, Method, and/or Equipment
Articulated Arm Coordinate Measurement Machine (AACMM):  Single Point Articulation Performance	N/A <sup>3</sup>	0.41 μm	B89.4.22-2004 and ISO 10360-12:2016  Test Sphere
Articulated Arm Coordinate Measuring Machines (AACMM) with Optical Distance Sensors:  Articulated Location Error	Sphere Diameter: 50.8 mm	4.4 μm	Based on ISO 10360-08:2013 Annex D  Test Sphere
Laser Line Probe (LLP): Diameter  Z Distance/Position	Cylinder Diameter: 25.4 mm  (75 to 360) mm	1.8 μm  1.5 μm	Internal Procedure:  Reference Cylinder  Calibrated distance/ Position by Laser Interferometer

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ( $k=2$ ), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2.  $L$  = Length in meters.
3. Point measurements do not have a range.
4. This scope is formatted as part of a single document including Certificate of Accreditation No. L1147.13-1.



R. Douglas Leonard Jr., VP, PILR SBU