



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

**Nikon Metrology, Inc.**

**12701 Grand River Road  
Brighton, MI 48116**

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: 30 March 2023  
Certificate Number: L1080-1



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

### Nikon Metrology, Inc.

12701 Grand River Road  
Brighton, MI 48116  
Jeff Root  
810-220-4360

### CALIBRATION

Valid to: **March 30, 2023**

Certificate Number: **L1080-1**

#### Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Autocollimators	Up to 10'	0.7"	Procedure WI-305: Optical Wedge
Measuring Microscope <sup>1</sup> :			Procedure WI-304:
X, Y, Z Axis Length	(0 to 300) mm	1.5 µm	LTE Zerodur Line Scales
X and Y Axes Squareness	Up to 50 mm	1.5 µm	X-Y Zerodur Line Scale
Optical Comparators <sup>1</sup> :			Procedure WI-304:
Magnification	(10 to 100) X	0.04 % of magnified length <sup>2</sup>	Glass Line Scales
X, Y Axis Length	(0 to 300) mm	1.5 µm	LTE Zerodur Line Scales
X and Y Axes Squareness	Up to 50 mm	1.5 µm	X-Y Zerodur Line Scale
VMA Video Measuring System <sup>1</sup> :			Procedure WI-301:
X, Y Axis, X-Y Diagonal Length	(0 to 300) mm (0 to 700) mm	1.5 µm 2.5 µm	LTE Zerodur Line Scales
Z Axis Length	(2 to 40) mm	0.5 µm	Gauge Blocks
Video Probe	(0.022 to 8) mm	0.5 µm	Test Slide

**Length – Dimensional Metrology**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
VMR & VMZ Video Measuring System <sup>1</sup> :			Procedure WI-301:
X, Y Axis, X-Y Diagonal Length	(0 to 300) mm (0 to 700) mm	1 $\mu$ m 1.5 $\mu$ m	LTE Zerodur Line Scales
Z Axis Length	(2 to 40) mm	0.5 $\mu$ m	Gauge Blocks
Video Probe	(0.022 to 8) mm	0.5 $\mu$ m	Test Slide

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. Magnification length of 100 mm up to 200 mm.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. L1080-1.



R. Douglas Leonard Jr., VP, PILR SBU