



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ZYGO CORPORATION, A UNIT OF AMETEK INC.
21 Laurel Brook Rd.
Middlefield, CT 06455
Isaac Jacob Phone: 860 704 5174

CALIBRATION

Valid To: September 30, 2023

Certificate Number: 5312.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Areal (3-D) Step Height	Up to 145 µm	$\sqrt{[(0.3 \% h)^2 + (0.003 \mu\text{m})^2]}$	NPL-Calibrated 14.660 µm step height standard, Zygo NexView, Ocean Optics mercury pencil lamp REF: IWI-0119, SPIE 10329-44, ASME B46.1.2009, ASME B89.7.5-2006

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ In the statement of CMC, h represents step height in µm.



Accredited Laboratory

A2LA has accredited

ZYGO CORPORATION, A UNIT OF AMETEK, INC.

Middlefield, CT

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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).



Presented this 30th of August 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5312.01
Valid to September 30, 2023

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.