



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

OGP SERVICES, A DIVISION OF QUALITY VISION SERVICES
1175 North Street
Rochester, NY 14621
Mitchell Hill Phone: 585 544 0450

CALIBRATION

Valid To: July 31, 2028

Certificate Number: 1864.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations^{1, 6}:

I. Dimensional

Parameter/Equipment	Range	CMC ² (±)	Comments
Optical Comparators, Contour Projectors ³ –			
Length	Up to 18 in (18 to 48) in	$(64 + 0.54L) \mu\text{in}$ $(47 + 1.5L) \mu\text{in}$	Reticle/linescale/square $L = \text{length in inches}$
Squareness	Up to 12 in	150 μin	
Magnification 5× to 200×	Up to 50 in screen	130 μin	
Chart Rotation	Up to 50 in screen	2'	
Video Measurement Systems ³	Up to 18 in (18 to 48) in (48 to 63) in	31 μin 53 μin $48 \mu\text{in} + 1.6 \mu\text{in/in} \cdot L$	Reticle/linescale/laser/ stairstep gage $L = \text{length in inches}$

Parameter/Equipment	Range	CMC ^{2,4} (\pm)	Comments
Coordinate Measuring Machine (CMM)			In accordance with ISO 10360-2:2009
Length (3D)	Up to 400 mm	0.40 μ m	Ball beam / step gage
	(400 to 850) mm	0.68 μ m	Ball beam / step gage
	(850 to 1150) mm	0.83 μ m	Ball beam / step gage
	(1150 to 1600) mm	1.1 μ m	Ball beam / step gage
Probe Performance			In accordance with ISO 10360-5:2020
Scanning Probe	Up to 25.1 mm	0.20 μ m	Sphere
Touch Probe	Up to 25.1 mm	0.20 μ m	Sphere
Probe Form	Up to 25.1 mm	0.09 μ m	Sphere
Length (3D)			In accordance with ISO 10360-7:2011
	Up to 300 mm	0.19 μ m	Linescale
	(300 to 770) mm	0.33 μ m	Linescale
	(770 to 1000) mm	0.40 μ m	Linescale
Probe Performance	(0.2 to 10) mm	0.22 μ m	Circle standard
	Up to 10 mm	0.10 μ m	Linescale
Precision Linescale ⁵	Up to 2400 mm	$Q [22, 0.072L]$ nm	Video microscope and (HeNe) interferometer L = length in mm
Precision Grids	Up to 25 in \times 25 in	30 μ in	Grid inspection system
Precision Scales	Up to 40 in	30 μ in	Grid inspection system/SIP measuring instrument

Parameter/Equipment	Range	CMC ² (±)	Comments
Precision Reticles	Up to 24 in	30 µin	Grid inspection system/SIP measuring instrument
Z-Axis Step Gages – Video			
Step Height	(0.125 to 6) in	28 µin	Laseruler/indi-square/indicator
Perpendicularity		36 µin	
Calibration Spheres Diameter	(0.25 to 1.0) in	28 µin	Laseruler
Step Gages – Cobra	(0.125 to 1.0) in	12 µin	Laseruler
QVS Width Gage	Up to 60 mm	0.36 µm	QVI Quest 625
ShapeGrabber Laser Scanner	Up to 300 mm	3.6 µm	Ball bar

¹ This laboratory offers commercial and field calibration services.

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 Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g., resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ In the statement of CMC, $Q[a, b] = \sqrt{(a^2 + b^2)}$

⁵ For certain types of linescales with lengths over 314 mm, the CMC claim is smaller than that of the expanded uncertainty claim for NIST as listed in the BIPM Key Comparison Database. A2LA has evaluated the laboratory's CMC claim and has verified this information to be correct and appropriate.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.





Accredited Laboratory

A2LA has accredited

OGP SERVICES, A DIVISION OF QUALITY VISION SERVICES

Rochester, NY

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 the requirements of ANSI/NCSL Z540-1-1994 and 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 15th day of June 2026.

A blue ink signature of Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1864.01
Valid to July 31, 2028

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