



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Applied Image Inc.
1653 East Main Street
Rochester, NY 14609

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.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 30 October 2021

Certificate Number: AC-2818



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

Applied Image Inc.
1653 East Main Street
Rochester, NY 14609
Carl Maggiulli
585-482-0300 ext. 264

CALIBRATION

Valid to: **October 30, 2021**

Certificate Number: **AC-2818**

Length – Dimensional Metrology


Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Single Axis Length Non-Contact ²	Up to 200 μm	0.43 μm	Filar Microscope
	(200 to 400) μm	0.73 μm	
	(400 to 800) μm	1.3 μm	
	(800 to 1 600) μm	1.5 μm	
	Up to 25.4 mm	0.49 μm	Laser-based Measuring Machine
	(0.8 to 400) mm	(2.3 + 0.008L) μm	CMM
Single Axis Length Non-Contact ²	(401 to 1 200) mm	(1.5 + 0.051L) μm	Coordinatograph
	Up to 25.4 mm (25.4 to 75) mm	2.4 μm 2.7 μm	Micrometers
Length Aspect of Bar Code Measurement ²	Up to 150 mm	31 μm	Caliper
	(3 to 200) mils	(0.051 + 0.000 25L) mils	Automated Bar Code Verification System (Judge)
Length Aspect of Bar Code Measurement ²	(0.2 to 5) mm	(1.3 + 0.25L) μm	Automated Bar Code Verification System (Judge)
	Angular Measurement	(5 to 85) °	0.005 4 °

Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Spectral Reflection Aspect of Bar Code Measurement ^{3,4}	(0.25 to 100) %R 660 nm	(0.35 + 0.014R) %R	Automated Bar Code Verification System (Judge)
45°:0° or 0°:45° Spectral Reflection Photometry ⁴ (Status A Density)	(V Filter) (0 to 1.25) D (1.25 to 2.1) D (C Filter) (0 to 1.25) D (1.25 to 2.1) D (M Filter) (0 to 1.25) D (1.25 to 2.1) D (Y Filter) (0 to 1.25) D (1.25 to 2.1) D	0.011 D 0.033 D 0.012 D 0.034 D 0.009 5 D 0.026 D 0.009 4 D 0.031 D	Color Reflection Densitometer
45°:0° or 0°:45° Spectral Reflection Photometry ^{3,4}	(0.25 to 100) %R 660 nm	(0.066 + 0.007R) %R	Spectral Reflectometer
Spectral Transmission Photometry ^{3,4}	(0 to 100) %T (250 to 400) nm (400 to 900) nm (900 to 1000) nm	(0.15 + 0.003 8T) %T (0.38 + 0.002 8T) %T (0.71 + 0.006T) %T	Transmission Spectro-photometer
Transmission Density ⁴ (Orthochromatic Filter)	(0 to 3.7) D (3.701 to 4.5) D	0.025 D 0.059 D	Transmission Densitometer

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 (except CMM Measurements), 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 mils or mm.
 3. R = value in % R; T = value in % T.
 4. The following are non-SI terms: %T is percent transmission; %R is the percent reflectance; and D is the optical density.
 5. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2818.



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