



# CERTIFICATE OF ACCREDITATION

**The ANSI National Accreditation Board**

Hereby attests that

**Imada, Inc.**  
**and Hoto Instruments (Division of Imada, Inc.)**  
**3100 Dundee Road, Suite 707**  
**Northbrook, IL 60062**

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: 27 June 2022

Certificate Number: L2086-1



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

### Imada, Inc. and Hoto Instruments (Division of Imada, Inc.)

3100 Dundee Road, Suite 707  
Northbrook, IL 60062  
Aki Morita 847-562-0834

### CALIBRATION

Valid to: **June 27, 2022**

Certificate Number: **L2086-1**

#### Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Digital Distance Meter	(0.000 5 to 8) in	800 $\mu$ in	Gauge Blocks
Durometer Indenter Diameter	(0.001 to 26) mm	0.01 mm	Image Measuring System
Durometer Indenter Angle	(0.01 to 35) °	0.15 °	Image Measuring System
Durometer Indenter Radius	(0.001 to 15) mm	0.006 mm	Image Measuring System
Durometer Indenter Length	(0.001 to 3) mm	0.012 5 mm	Gauge Blocks

#### Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Mechanical Force Gauges	(0.2 to 300) lbf	0.08 % of reading	Dead Weight applied
	(301 to 500) lbf	0.22 % of reading	Dead Weight applied and Load Cell System
Digital Force Gauges	(0.044 to 220) lbf	0.11 % of reading	Dead Weight applied
	(44 to 4 400) lbf	0.2 % of reading	Dead Weight applied and Load Cell System
Torque Testers	(0.1 to 1.4) lbf·in (1.4 to 4 344) lbf·in	0.003 3 lbf·in 0.24 % of reading	Torque Arm with Dead Weight applied

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Durometer Spring Force	(0.01 to 9) N (0.01 to 45) N	0.05 N 0.2 N	Force Gauge

**Time and Frequency**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Digital Stroboscope <sup>1</sup>	(0.1 to 150 000) fpm	0.005 % of reading	Universal Counter
Digital Tachometer	(0.01 to 25 000) rpm	0.005 % of reading	Universal Counter

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. The unit of measure fpm corresponds to flashes per minute as measured in Hz using an electronic counter.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2086-1.



R. Douglas Leonard Jr., VP, PILR SBU