



SCOPE OF ACCREDITATION TO ISO/IEC 17025: 2017

OPHIR-SPIRICON LLC
 3050 N 300 W
 North Logan, UT 84341
 Bryan Palmer Phone: 435 753 3729

CALIBRATION

Valid To: March 31, 2023

Certificate Number: 4261.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above as well as the satellite laboratory location listed below to perform the following calibrations^{1,4}:

I. Optical Quantities

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Thermal Laser Power Measurement – Wavelength (193 to 10 600) nm	10 μW to 30 kW	2.5 %	OSI silver master sensor
Photodiode Laser Power Measurement – Wavelength (210 to 255) nm (256 to 285) nm (286 to 430) nm (431 to 1000) nm (1001 to 1100) nm (1101 to 1820) nm	20 pW to 3 W	4.4 % 3.0 % 2.3 % 2.0 % 6.0 %	OSI silver master sensor
Pyroelectric Laser Energy Measurement – Wavelength (193 to 2940) nm	0.5 μJ to 100 mJ	2.3 %	OSI silver master sensor

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Electrical Calibration of Laser Power Meters			OSI silver master C-BOX
DC Current Accuracy	1.25 nA to 12.5 mA	0.64 %	
DC Voltage Accuracy & Analogue Output Accuracy	1.25 mV to 65 V	0.18 %	

SATELLITE LABORATORY

OPHIR JAPAN
 Towa-Daiichi Building 1F 4-384 Sakuragi-cho
 Omiya-ku, Saitama City
 Japan 330-0854
 Bryan Palmer Phone: 435 753 3729

I. Optical Quantities

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Thermal Laser Power Measurement – Wavelength (193 to 10 600) nm	10 μW to 30 kW	2.4 %	OJ silver master sensor
Photodiode Laser Power Measurement – Wavelength (210 to 255) nm (256 to 285) nm (286 to 430) nm (431 to 1000) nm (1001 to 1100) nm (1101 to 1820) nm	20 pW to 3 W 5 nW to 3 W	4.4 % 3.0 % 2.3 % 2.0 % 6.0 % 4.8 %	OJ silver master sensor
Pyroelectric Laser Energy Measurement – Wavelength (193 to 2940) nm	0.5 μJ to 100 mJ	2.5 %	OJ silver master sensor

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Electrical Calibration of Laser Power Meters			OJ silver master C-BOX
DC Current Accuracy	1.25 nA to 12.5 mA	0.64 %	
DC Voltage Accuracy & Analogue Output Accuracy	1.25 mV to 65 V	0.18 %	

¹ This laboratory offers commercial calibration service at both its main facility and at its Satellite location.

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, percentages are percentages of reading, unless otherwise indicated.

⁴ This scope meets A2LA's *P112 Flexible Scope Policy*.