CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Coherent, Inc.
27650 SW 95th Avenue
Wilsonville, OR 97070
(with satellite locations and capabilities identified on the scope of accreditation)

Fulfills the requirements of

ISO/IEC 17025:2017

and

ANSI/NCSL Z540-1-1994 (R2002)

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.

Jason Stine, Vice President

Expiry Date: 15 May 2028

Certificate Number: AC-1630

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

AND

ANSI/NCSL Z540-1-1994 (R2002)

Coherent, Inc.

27650 SW 95th Avenue
Wilsonville, OR 97070

Philip Taylor 800-343-4912
Philip.Taylor@coherent.com

CALIBRATION

ISO/IEC 17025 Accreditation Granted: **27 March 2026**

Certificate Number: **AC-1630** Certificate Expiry Date: **15 May 2028**

Photometry and Radiometry **Wilsonville**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Electrical Calibration of Laser Power Meters (Thermal)	100 µW to 5 000 W 1.831 µV to 2 V	0.8 % of reading	Comparison to DMM, (ARB, Attenuator)
Electrical Calibration of Laser Power Meters (Optical)	10 nW to 30 mW 51 nA to 19.1 mA	0.8 % of reading	Comparison to DMM (Current Source)
Electrical Calibration of Laser Energy Meters (Pyro)	100 nJ to 3 J 40 µV to 5 V	0.8 % of reading	Comparison to DMM (ARB, Attenuator)
Laser Power Measuring Sensors at 514 nm	(0.18 to 1.2) W (0.000 2 to 7) V/W	1 % of reading 1 % of reading	Comparison to Coherent Working Standard Sensor, Coherent Power Meter, DMM
Laser Power Measuring Sensors at 810 (+/- 10) nm	(70 to 80) W (0.08 to 13) mV/W	1.7 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter
Laser Power Measuring Sensors at 10 600 nm	(0.5 to 150) W (0.001 4 to 0.226) V/W	2 % of reading 2 % of reading	Comparison to Coherent Working Standard Sensor, Coherent Power Meter

Photometry and Radiometry **Wilsonville**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Laser Power Measuring kW Sensors at 1070 (+/-10) nm	(360 to 440) W (0.000 004 5 to 0.000 4) V/W	2.5 % of reading 2.5 % of reading	Comparison to Coherent Working Standard Sensor, Coherent Power Meter, DMM
Laser Power Measuring kW Sensors at 1080 nm	(250 to 12 000) W (0.000 004 5 to 0.000 4) V/W	2.5 % of reading 2.5 % of reading	Comparison to Coherent Working Standard Sensor, Coherent Power Meter
Laser Power Measuring kW Sensors at 10 600 nm	200 W to 1.1 kW (0.000 06 to 0.000 4) V/W	3.7 % of reading 3.7 % of reading	Comparison to Coherent Working Standard Sensor, Coherent Power Meter, DMM
Energy Measuring Sensors at 193 nm	3 µJ to 2 mJ (24 to 80) V/J	3 % of reading 3 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Energy Meter, Oscilloscope
Energy Measuring Sensors at 248 nm	60 µJ to 7 mJ (6 to 32) V/J	3 % of reading 3 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Energy Meter, Oscilloscope
Energy Measuring Sensors at 1 064 nm	10 µJ to 160 mJ (2 to 21 700) V/J	2 % of reading 2 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Energy Meter, Oscilloscope
Laser Power Measuring Sensors from 250 nm to 400 nm (UV-Range)	200 nW to 20 µW (0.05 to 0.2) A/W	3 % of reading 3 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter, DMM
Laser Power Measuring Sensors from 400 nm to 450 nm (VIS-Range)	3 µW to 20 µW (0.01 to 0.1) A/W	10 % of reading 10 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter, DMM
Laser Power Measuring Sensors from 450 nm to 1100 nm (VIS-Range)	3 µW to 100 µW (0.01 to 1) A/W	4.8 % of reading 4.8 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter, DMM
Laser Power Measuring Sensors from 800 nm to 1 700 nm (IR-Range)	300 nW to 60 µW (0.1 to 1.2) A/W	4 % of reading 4 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter, DMM

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Photometry and Radiometry **Wilsonville**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Laser Power Measuring Sensors from 1 700 nm to 1 800 nm (IR-Range)	200 nW to 1 µW (0.08 to 1) A/W	8 % of reading 8 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter, DMM

Services performed at satellite laboratory
Coherent, Inc.

Dieselstrasse 5B
Dieburg, Germany D-64807

Philip Taylor 800-343-4912
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Photometry and Radiometry **Dieburg**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Electrical Calibration of Laser Power Meters (Thermal)	100 µW to 5 000 W 1.831 µV to 2 V	0.8 % of reading	Comparison to DMM, (ARB, Attenuator)
Electrical Calibration of Laser Power Meters (Optical)	10 nW to 30 mW 51 nA to 19.1 mA	0.8 % of reading	Comparison to DMM (Current Source)
Electrical Calibration of Laser Energy Meters (Pyro)	100 nJ to 3 J 40 µV to 5 V	0.8 % of reading	Comparison to DMM (ARB, Attenuator)
Laser Power Measuring Sensors at 514 nm	(0.18 to 1.2) W (0.000 2 to 7) V/W	1 % of reading 1 % of reading	Comparison to Coherent Working Standard Sensor, Coherent Power Meter, DMM
Laser Power Measuring Sensors at 10 600 nm	(0.5 to 150) W (0.001 4 to 0.226) V/W	2 % of reading 2 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter
Energy Measuring Sensors at 193 nm	3 µJ to 2 mJ (24 to 80) V/J	3 % of reading 3 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Energy Meter, Oscilloscope

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Energy Measuring Sensors at 1 064 nm	10 µJ to 160 mJ (2 to 21 700) V/J	2 % of reading 2 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Energy Meter, Oscilloscope
Laser Power Measuring Sensors from 250 nm to 400 nm (UV-Range)	200 nW to 20 µW (0.05 to 0.2) A/W	3 % of reading 3 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter, DMM
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Laser Power Measuring Sensors from 450 nm to 1 100 nm (VIS-Range)	3 µW to 100 µW (0.01 to 1) A/W	4.8 % of reading 4.8 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter, DMM
Laser Power Measuring Sensors from 800 nm to 1 700 nm (IR-Range)	300 nW to 60 µW (0.1 to 1.2) A/W	4 % of reading 4 % of reading	Substitution to Coherent Working Standard Sensor, Coherent Power Meter, DMM
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Services performed at satellite laboratory

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Service Location: Atsugi Tech Center
1042-4 Toda, Atsugi-shi, Kanagawa, Japan 243-0023

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Photometry and Radiometry **Tokyo**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Electrical Calibration of Laser Power Meters (Thermal)	100 µW to 5 000 W 1.831 µV to 2 V	0.8 % of reading	Comparison to DMM, (ARB, Attenuator)
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Photometry and Radiometry **Tokyo**

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
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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, 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.

Jason Stine, Vice President

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