



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Coherent LSM
27650 SW 95th Ave.
Wilsonville, OR 97070

Including Satellite Site located at:
Dieselstrasse 5B, D-64807, Dieburg, Germany
Toyo MK Building 7-2-14 Toyo Koto-ku Tokyo, Japan 135-0016

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994

while demonstrating technical competence in the field(s) of

CALIBRATION

Refer to the accompanying Scope(s) of Accreditation for information regarding the types of calibrations and/or tests to which this accreditation applies.

AC-1630

Certificate Number

ANAB Approval

Certificate Valid: 01/30/2014-03/15/2016
Version No. 002 Issued: 02/06/2015





ANSI-ASQ National Accreditation Board

**SCOPE OF ACCREDITATION TO
ISO/IEC 17025:2005 & ANSI/NCSL Z540-1-1994**

Coherent LSM

27650 SW 95th Ave Wilsonville, Oregon 97070

Ray Eller www.coherent.com
ray.eller@coherent.com Phone: 800 343 4912

with
Satellite Laboratories located at

Dieselstrasse 5B, Dieburg, Germany D-64807
Thorsten Thomas Phone: 49 6071 968 222

and

Toyo MK Building 7-2-14 Toyo Koto-ku Tokyo, Japan 135-0016
Takao Hosaka 81 3 5635 8637

CALIBRATION

Valid to: March 15, 2016 Certificate Number: AC-1630

Optical Radiation

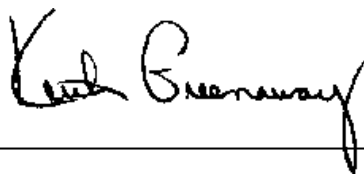
PARAMETER/ EQUIPMENT	RANGE	CALIBRATION & MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	LOCATION
Electrical Calibration of Laser Power Thermal Meters	100 µW to 5 000 W 1.831 µV to 2 V	0.8 %	ARB, DMM, Attenuator	Wilsonville Dieburg Tokyo
Electrical Calibration of Laser Power Optical Meters	10 nW to 30 mW 51 nA to 19.1 mA	0.8 %	Current Source	
Electrical Calibration of Laser Energy Meters	100 nJ to 3 J 40 µV to 5 V	0.8 %	ARB, Attenuator	
Laser Power Measuring Sensors at 514 nm - Measure	(0.18 to 1.2) W (0.0002 to 7) V/W	1.0 % 1.0 %	Coherent Working Standard Sensor, DMM, Coherent Power Meter	



PARAMETER/ EQUIPMENT	RANGE	CALIBRATION & MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	LOCATION
Laser Power Measuring Sensors at 1 064 nm - Measure	(360 to 440) W (0.0000045 to 0.0004) V/W	2.9 % 2.9 %	Coherent Working Standard Sensor, DMM, Coherent Power Meter	Wilsonville
Laser Power Measuring Sensors at 10 600 nm - Measure	(0.5 to 150) W (0.0014 to 0.226) V/W	2.0 % 2.0 %		Wilsonville Dieburg Tokyo
Laser Power Measuring kW Sensors at 10 600 nm - Measure	200 W to 1.1 kW (0.00006 to 0.0004) V/W	3.7 % 3.7 %		Wilsonville
Energy Measuring Sensors at 193 nm - Measure	3 μJ to 2 mJ (24 to 80) V/J	2.0 % 2.0 %	Coherent Working Standard Sensor, Oscilloscope, Coherent Energy Meter	Wilsonville Dieburg
Energy Measuring Sensors at 248 nm - Measure	60 μJ to 7 mJ (6 to 32) V/J	2.1 % 2.1 %		Wilsonville
Energy Measuring Sensors at 1 064 nm - Measure	10 μJ to 160 mJ (2 to 21 700) V/J	2.0 % 2.0 %		Wilsonville Dieburg

Notes:

1. Calibration and Measurement Capabilities (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of $k=2$.
2. This scope is part of and must be included with the Certificate of Accreditation No. AC-1630.



Vice President