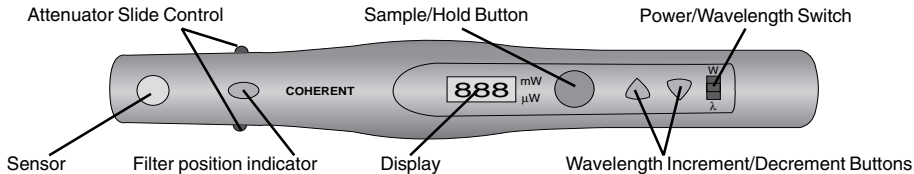


Operating Instructions



Measure Power:

- 1.) Move power/wavelength switch to W.
- 2.) If expected power is $>10\text{mW}$, slide the power step attenuator over the sensor by moving the attenuator control toward the sensor. The filter position indicator will be black when the attenuator is in place and yellow when the attenuator is not in place. **DO NOT EXCEED 0.5 W/cm^2 without the attenuator in place. DO NOT EXCEED 30 W/cm^2 with the attenuator in place.**
- 3.) Press and hold down the power Sample/Hold button.
- 4.) Insert and center the sensor in the laser beam for a minimum of 2 seconds. Note: Keep the sensor close to normal incidence with

respect to the beam to maximize accuracy and minimize hazardous back reflections. If the LaserCheck emits an audible beep tone and the display shows three dashed lines "----" the power level is over maximum power.

- 5.) Release the Sample button and remove LaserCheck from the beam.
- 6.) The peak power measured during the time the sample button was held down will be displayed. After 10 seconds, LaserCheck will automatically shut off.

Set Wavelength:

- 1.) Move power/wavelength switch to λ . Current wavelength will show on display.
- 2.) Set the wavelength from 400 to 1064 nm with the Wavelength Increment or Decrement buttons. (Beyond 999 nm the display will read 000 to 064 for wavelengths from 1000 to 1064 nm.)
NOTE: The wavelength setting is stored. Changing the wavelength setting is not required unless the wavelength being measured is changed.

Warranty

LaserCheck is warranted against all manufacturing defects for one year from date of purchase. Contact Coherent for complete warranty statement.

Laser Damage Warning

LaserCheck sensor will be damaged if the specified maximum power density is exceeded. Warranty is void if maximum power density is exceeded.

LaserCheck

Operating Instructions



Specifications

Sensor type	Silicon Cell	Aperture size	8 mm
Spectral response	400 - 1064 nm	Built-in range step attenuator	1 mm thick NG-10
Accuracy	+/- 5%	Measurement display	3 digit LCD w/power unit indicator
Max. CW power	10 mW	Displayed power ranges	9.99 μ W to 999 mW
w/built-in attenuator	1 W	Peak sample time	2 sec.
Max. CW power density	0.5 W/cm ²	Display hold time	10 sec.
w/built-in attenuator	30 W/cm ²	Battery life	180,000 measurements (at 12 sec. /sample)
Min. full scale power	9.99 μ W	Overload display indication	---
Min. power resolution	0.01 μ W	Overload audible indication	Beep tone
Min. detectable power	0.5 μ W	Size	6.59" L x 0.92" W x 0.78" T
		Weight	1.54 oz.



North America

2303 Lindbergh Street
Auburn, CA 95602

Phone: 1-800-343-4912
1-530-889-5365
Fax: 1-530-889-5366

Web: www.CoherentInc.com

Local Offices

UK +44 (0) 1353 658848
Germany +49-6071-968-0
France +33-1-60 19 40 40
Japan +81 (0) 3 5635 8680
Italy +39 (02) 34 530 214