

# LaserCheck

Operating Instructions



## Specifications

Sensor type	Silicon cell	Aperture size	8 mm
Spectral response	400 to 1084 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 $\mu$ W to 999 mW
w/built-in attenuator	1 W	Peak sample time	2 sec.
Max. CW power density	0.5 W/cm <sup>2</sup>	Display hold time	10 sec.
w/built-in attenuator	30 W/cm <sup>2</sup>	Battery life	180,000 measurements (at 12 sec./sample)
Min. power resolution	9.99 $\mu$ W	Overload display indication	Beep tone
Min. detectable power	0.01 $\mu$ W	Overload audible indication	6.59" L x 0.92" W x 0.78" T
		Weight	1.54 oz.

## USA

Phone: 1.800.343.4912  
Fax: 503.454.5777

## Europe

Phone: +49-6071-988-0  
Fax: +49-6071-988-499

## International

Phone: 503.454.5700  
Fax: 503.454.5777

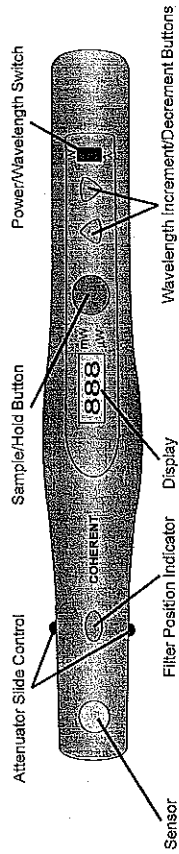
E-mail (worldwide): [info\\_service@Coherent.com](mailto:info_service@Coherent.com)

For the latest Customer Service information,  
refer to our website: [www.Coherent.com](http://www.Coherent.com).

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### Measure Power:

- 1.) Move the Power/Wavelength switch to W.
- 2.) If expected power is  $>10$  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**  $0.5 \text{ W/cm}^2$  without the attenuator in place. **DO NOT EXCEED**  $30 \text{ W/cm}^2$  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

### Set Wavelength:

- 1.) Move the Power/Wavelength switch to  $\lambda$ . The current wavelength will show on the 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.

### Warning

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 will automatically shut off.