

LaserCheck

Operating Instructions



Specifications

Sensor type..... Silicon cell
Spectral response..... 400 to1064 nm
Accuracy..... +/- 5%
Max. CW power..... .10 mW
 w/built-in attenuator..... .1 W
Max. CW power density..... 0.5 W/cm²
 w/built-in attenuator..... .30 W/cm²
Min. full scale power..... 9.99 μ W
Min. power resolution..... 0.01 μ W
Min. detectable power..... .05 μ W

Aperture size..... .8 mm
Built-in range step attenuator..... 1 mm thick NG-10
Measurement display..... .3 digit LCD w/power unit indicator
Displayed power ranges..... .9.99 μ W to 999 mW
Peak sample time..... .2 sec.
Display hold time..... .10 sec.
Battery life..... .180,000 measurements (at 12 sec./sample)
Overload display indication..... -----
Overload audible indication..... Beep tone
Size..... .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: +49-6071-968-0

Fax: +49-6071-968-499

International

Phone: 503.454.5700

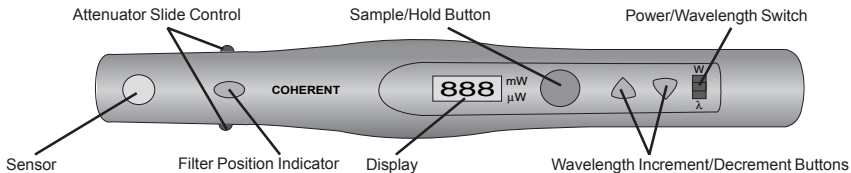
Fax: 503.454.5777

E-mail (worldwide): info_service@Coherent.com

For the latest Customer Service information,
refer to our website: www.Coherent.com.

(Over)

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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 W/cm² without the attenuator in place. DO NOT EXCEED 30 W/cm² 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/Hold button and remove LaserCheck from the beam.
- 6.) The peak power measured during the time the Sample/Hold button was held down will be displayed. After 10 seconds, LaserCheck will automatically shut off.

Set Wavelength:

- 1.) Move the Power/Wavelength switch to λ. 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.

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.