

# Sapphire 532nm, 500mW LPX CDRH Laser Head

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## Product Downloads

### General

Warm-Up Time (minutes):  
<5

Manufacturer:  
Coherent®

Type of Laser:  
Solid State

Laser Class - CDRH:  
IIIb

Model Number:  
1416018

## Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad/°C):

<5

Pointing Stability (μrad):

<30

## Optical Properties

Spatial Mode:

TEM<sub>00</sub>

Wavelength (nm):

532.00

Mode Quality, M<sup>2</sup>:

<1.1

Beam Diameter Tolerance (mm):

±0.05

Beam Diameter (mm):

0.70

Beam Divergence (mrad):

Full Angle: <1.3

Color:

Green

## Electrical

Output Power (mW):

500

Power Stability (%):

<2

RMS Noise:

≤0.25% (20Hz to 20MHz)

## Hardware & Interface Connectivity

Power Supply:

Power Supply Required and Sold Separately.

USA: [#70-123](#)

Europe: [#70-123](#)

Japan: [#70-123](#)

Korea: [#70-123](#)

China: [#70-123](#)

Output Type:

Free Space

## Environmental & Durability Factors

Operating Temperature (°C):

10 to 40

## Regulatory Compliance

Certificate of Conformance:

[View](#)

## Product Details

- Output Powers up to 500mW
- 300mW and 500mW Output Powers
- 488, 532, and 561nm Wavelength Options

Coherent® Sapphire™ LPX Laser Systems utilize Coherent®'s unique OPSSL (Optically Pumped Semiconductor Laser) technology to provide a series of CW, higher power, compact lasers. Available with 488, 532, and 561nm wavelength options, these lasers provide a high-quality diffraction limited output beam and are assembled with Coherent®'s excellent pointing stability of <30 μrad. Flexible remote-control options for USB, RS-232, and analog connection all provide control options via the relevant ports on the CDRH laser controller. Coherent® Sapphire™ LPX Laser Systems are ideal for applications that require an ultra-narrow linewidth such as Raman spectroscopy, interferometry, holography, metrology, and inspection. These lasers require [#70-123](#) Sapphire LPX CDRH Controller for power and control, sold separately.