

[See all 11 Products in Family](#)

Sapphire 488nm, 500mW LPX CDRH Laser Head

See More by [Coherent®](#)



Stock #70-118 [CONTACT US](#)

⊖ 1 ⊕ £8,792⁰⁰

ADD TO CART

Volume Pricing	
Qty 1+	£8,792.00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Warm-Up Time (minutes):
<5

Manufacturer:
Coherent®

Type of Laser:
Solid State

Laser Class - CDRH:
IIIb

1416015

Model Number:

Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad/°C):
<5

Pointing Stability (μrad):
<30

Optical Properties

Spatial Mode:
TEM₀₀

Wavelength (nm):
488.00

Mode Quality, M²:
<1.1

Beam Diameter Tolerance (mm):
±0.05

Beam Diameter (mm):
0.70

Beam Divergence (mrad):
Full Angle: <1.2

Color:
Blue

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 OPSL (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.