

473 nm DPSSL, single-longitudinal mode (SLM) up to 50 mW CW

Cobolt Blues™ is a continuous-wave diode-pumped solid-state laser device operating at a fixed wavelength of 473 nm and built using proprietary HTCure™ manufacturing technology. The laser has a compact hermetically sealed package and emits a high quality laser beam with stable characteristics over a wide range of operating conditions. Single-longitudinal mode operation provides a narrow spectral bandwidth and long coherence length. The laser is designed and manufactured to ensure a high level of reliability.

The Cobolt Blues™ laser is intended for stand-alone use in laboratory environment or for integration as OEM component in equipment for applications including flow cytometry, laser scanning cytometry, DNA sequencing, wafer inspection, printing, spectroscopy, holography and projection displays.



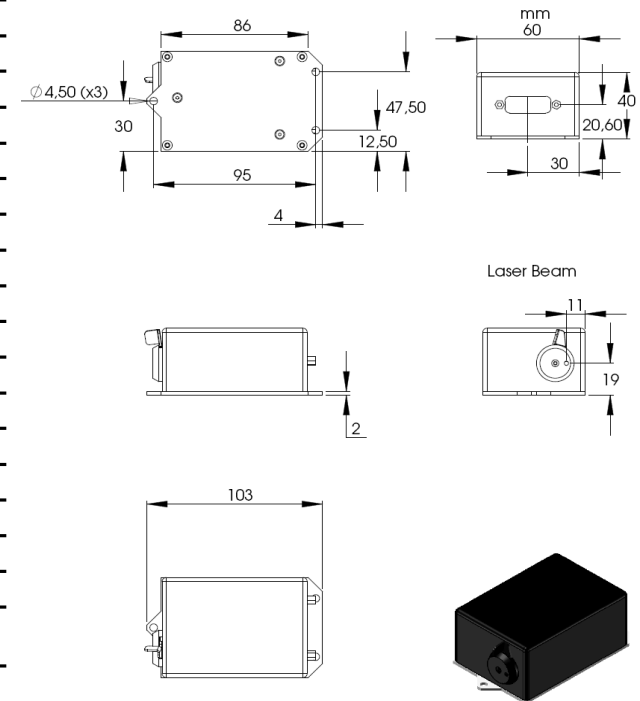
Specifications

Wavelength	473 nm
Output power	25, 50 mW
Spectral linewidth	<30 MHz (<0.03 pm)
Spatial mode	TEM ₀₀ , M ² <1.1
Beam diameter at aperture	700 μm
Beam divergence (full angle)	<1.2 mrad
Noise, 10 Hz – 2 MHz (pk-pk)	<3% , typical <2%
Noise, 10 Hz – 2 MHz (rms)	<0.3% , typical <0.2%
Long-term stability (8 h)	<3% (±1.5%)
Beam pointing stability (over 10–40 °C)	<10 μrad/°C
Polarization ratio	>100:1 linear
Total system power consumption	<25 W, typical <15 W
Operating temperature	10–40°C
Laser head dimensions [mm]	95 x 60 x 40
Laser head dimensions [inches]	3.8 x 2.4 x 1.6
Controller (OEM/CDRH) dimensions [mm]	190 x 72 x 28
Controller (OEM/CDRH) dimensions [inches]	7.6 x 2.9 x 1.1
Model number	0473-04-01-0pwr-300 CDRH 0473-04-01-0pwr-400 OEM

Options & Accessories

- Laser heatsink
- Fiber coupling
- Customised interface cable
- RS-232 communication cable

Laser Head Dimensions



Class 3B (IEC60825-1), IEC60950-1, UL 60950-1

Full specifications can be found in the manual. Subject to change without notice. Rev 0509.