

457 nm DPSSL, single longitudinal mode (SLM) 25 mW - 50mW CW

The Cobolt Twist™ is a continuous-wave diode-pumped solid-state laser device operating at a fixed wavelength of 457 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 Twist™ laser is intended for stand-alone use in laboratory environment or for integration as OEM component in equipment for applications including confocal microscopy, laser scanning microscopy, medical diagnosis and spectroscopy.



Specifications

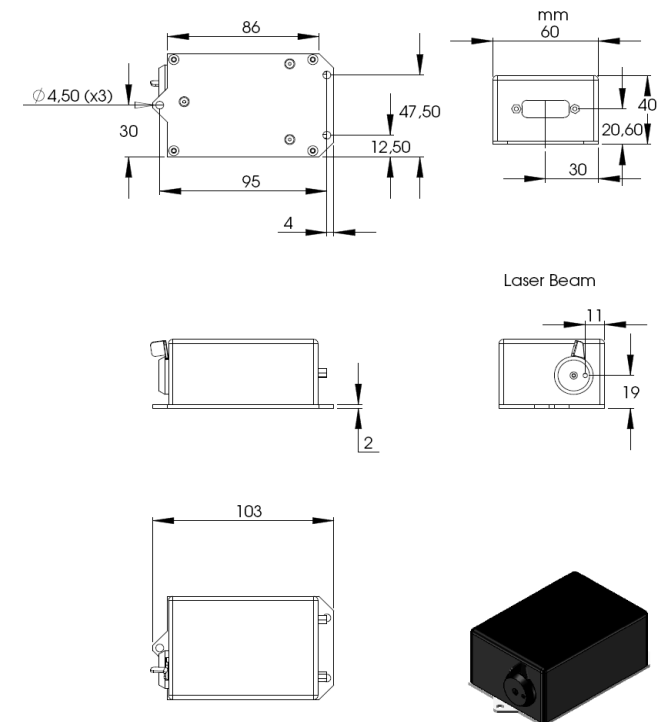
Wavelength	457 nm
Output power	25, 50 mW
Spectral linewidth	<30 MHz (<0.03 pm)
Spatial mode	TEM00, M ² <1.1
Beam diameter at aperture	700 μm
Beam divergence (full angle)	<1.2 mrad
Noise, 10 Hz - 2 MHz (pk-pk)	<3%, typical <2%
Noise, 10 Hz - 2 MHz (rms)	<0.3%, typical <0.2%
Long-term stability (8 h)	<3%
Beam pointing stability (over 10-40 °C)	<10 μrad/°C
Polarization ratio	>100:1
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	0457-04-01-0pwr-300 CDRH 0457-04-01-0pwr-400 OEM

Options & Accessories

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

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

Laser Head Dimensions



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