Laser

AOSense 461 nm Injection-locked Optical Amplifier

Real-world atomic sensors and other exacting applications require laser sources with specific size, environmental, and optical characteristics, placing unique constraints that most commercial laser systems do not meet. AOSense has developed a line of external cavity diode lasers (ECDLs) designed to meet these needs, offering narrow linewidth in a compact package.

Our AOSense Injection-locked Optical Amplifier is built on a semi-monolithic bench for stable operation in demanding environments.

Other wavelengths include 369 nm, 399 nm, 423 nm, and 690 nm

The flexible design is fully translatable to additional wavelengths. The output beam is circularized to optimize fiber coupling

Compact laser enclosure 3″x 1.5″x 1.1″ (76 mm x 38 mm x 28 mm).

Features

- **High performance**
- **High-power**
- **Compact**
- **Stable operation**
- **Integrated laser controller available**

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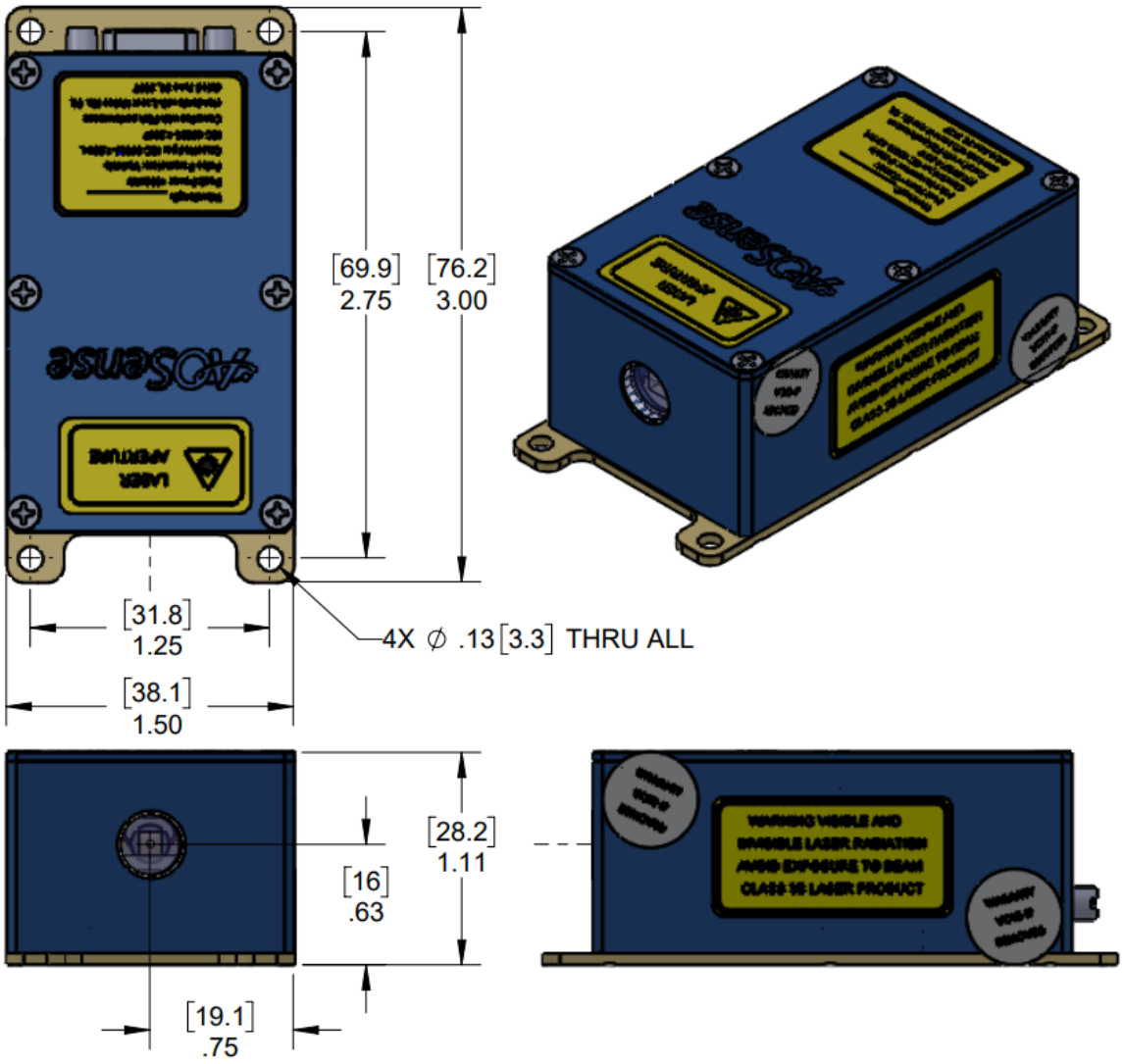
Specifications

461 nm Injection-locked Optical Amplifier	
ECDL Model No.	AOS-ILA-461
Dimensions (L x W x H)	76 [3] x 38 [1.5] x 28 [11] mm [in.]
Weight	156 g [5.5 oz.]
Laser Parameters	
Wavelength (tuned at GHz level)	461 nm
Output Power	> 500 mW
Polarization	TM
Beam circularization	Included
Memory	
Serial No., Safety limits, Settings	NVRAM, in laser head



For more information contact us at sales@aosense.com