



## 852nm Narrow Linewidth Laser (1U)

Based on high-power, low-noise fiber lasers amplification and sum-frequency technology, Precilasers can provide high-power, narrow linewidth laser output with a wavelength at 852nm.



### Features

- Narrow Linewidth
- Low RIN
- High Power
- Power Stability:  $<0.3\%_{rms}$ , 3hrs
- Excellent Beam Quality ( $M^2 < 1.1$ )
- Never Mode-hop
- High Temperature And Vibration Resistance

### Applications

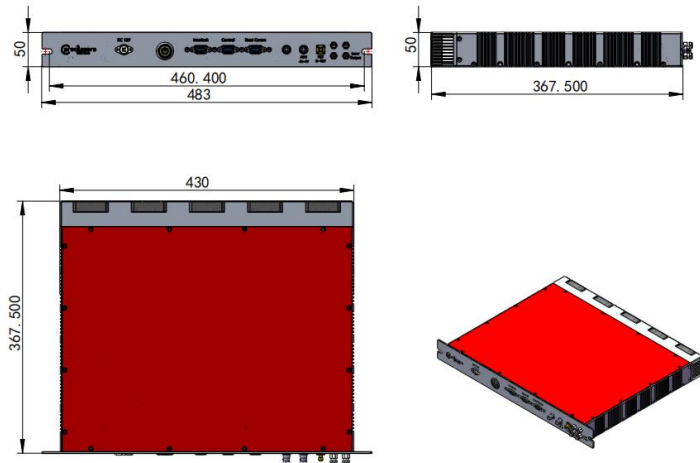
- Quantum Simulation
- Quantum Degenerate Gas
- Laser Spectrum
- Gas Detection

Specification	
Partnumber	FL-SF-XXXX-YY-CW <sup>(1)</sup>
Center Wavelength	852.356nm
Operation Mode	CW
Output Power	> 0.5W > 1W
Thermal Tuning Range	> 0.15nm, Never Mode-hop
Output Mode	PM Fiber Output,FC/APC
Linewidth <sup>(2)</sup> (100us)	< 20kHz
PER	> 20dB
Power Stability	< 0.3%@3hours, RMS
Beam Quality	$M^2 < 1.1$
PZT Frequency Tuning Range	> 3GHz
PZT Frequency Tuning Bandwidth	> 5kHz
Fast Frequency Tuning Range	> 500MHz
Fast Frequency Tuning Bandwidth	> 1MHz
AOM Tuning Range (Optional)	> $\pm 5$ MHz
AOM Tuning Bandwidth (Optional)	> 500kHz
RIN	< 0.08% (10Hz-100MHz, RMS)
Cooling	Air Cooling
Operating Environment & Power Supply	
Temperature	15-30 °C (Air Cooling) or 15-35 °C (Water Cooling)
Power Supply	100V-240V, AC, 50/60Hz
Communication	RS422

(1)XXXX is the laser center wavelength, YY is the laser power, for a 1W 852nm laser,the partnumberis FL-SF-852-1-CW

(2)Measured by self-hetrodyne method

## Air Cooling Control Unit Dimension



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