



## 730-765nm Narrow Linewidth Laser

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 ranging from 730 to 765 nm.



### Features

- Narrow Linewidth
- Low RIN
- High Power
- Power Stability:  $<0.75\%$ rms, 3hrs
- Excellent Beam Quality ( $M^2 <1.1$ )
- Never Mode-hop
- High Temperature And Vibration Resistance

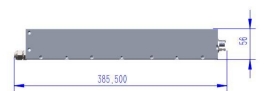
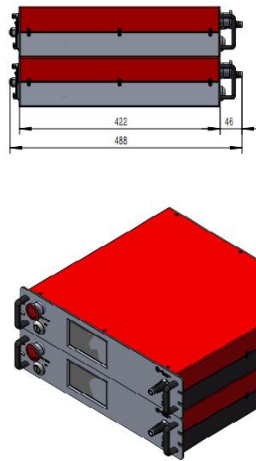
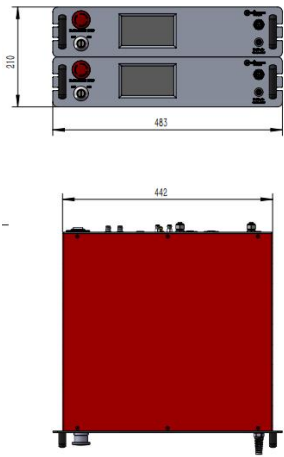
### Applications

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

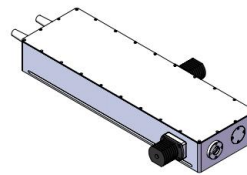
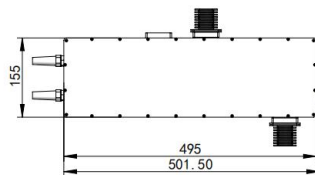
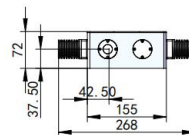
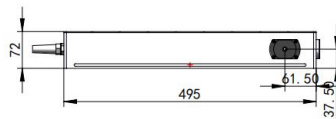
Specification					
Partnumber	FL-SF-XXXX-YY-CW <sup>(1)</sup>				
Wavelength Range	730-765nm				
Typical Wavelength	759nm				
Operation Mode	CW				
Output Power	> 1.5W	> 5W	> 10W	> 15W	> 20W
Thermal Tuning Range	> 0.15nm, Never Mode-hop				
Output Mode	Free Space Output				
Beam Diameter	0.7-1.0mm				
Linewidth <sup>(2)</sup> (100us)	< 20kHz				
PER	> 20dB				
Power Stability	< 0.75%@3hours, RMS				
Beam Quality	M <sup>2</sup> < 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)	> ±5MHz				
AOM Tuning Bandwidth (Optional)	> 500kHz				
RIN	< 0.08% (10Hz-100MHz, RMS)				
Cooling	Water 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 1.5W 759nm laser,the partnumberis FL-SF-759-1.5-CW  
(2)Measured by self-hetrodyne method

## Water Cooling Control Unit Dimension



## Laser Head Output Dimension



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