

1544nm Frequency Stabilized Laser

Based on Precilasers' narrow-linewidth 1544nm laser and all-fiber acetylene frequency-stabilized module, the 1544nm frequency-stabilized laser can output narrow-linewidth laser output with good long-term stability, which can be applied to fields such as industrial precision measurement.



Features

- Narrow Linewidth
- Linear Polarization
- High Power
- Active Power Stabilization
- Excellent Beam Quality
- Never Mode-hop
- Resistant to high and low temperature and vibration working environment

Application

Precision Measurement



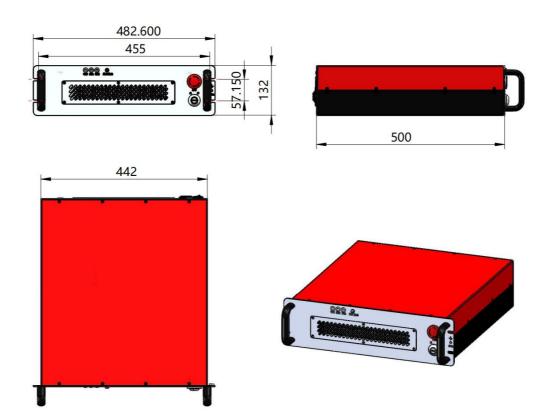
Specification		
Partnumber	FL-SF-1544-XX (1) -SAS	
Center Wavelength	1544nm ⁽²⁾	
Output Power	>10mW	>100mW
Linewidth (100us integral) ⁽³⁾	<2kHz	
Frequency Stability	Acetylene frequency stabilization, <2MHz@10hrs	
Long Term Power Stability	<0.75% @3hrs, RMS	
PZT Tuning Range	>3GHz	
PZT Tuning Bandwidth	>5kHz	
Output Mode	Single-mode polarization-maintaining fiber output, FC/APC connector	
Beam Quality	M ² <1.1	
Polarization Extinction Ratio	>20dB,Linear polarization	
Cooling	Air Cooling	

- (1) X: laser power, unit W, for example, output power 0.1W: FL-SF-1544-0.1-CW,
- (2) For other center wavelengths, please email us.
- (3) Tested based on fiber delay interferometer

Other Parameters		
Temperature	15-30°C(No condensation conditions)	
Power Supply	100-240v, AC, 50/60Hz	

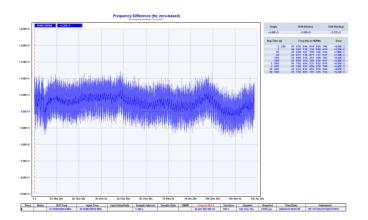


Product Dimensions

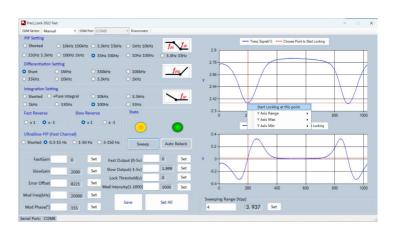




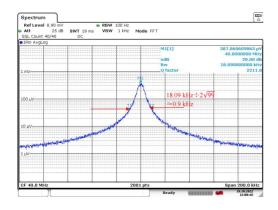
Performance(typical value)



Frequency stability measurement, peak-to-peak 1.5MHz@13hrs, 2 frequency-stabilized lasers beat frequency



Frequency stabilization interface, can lock to different absorption peaks



Line width test, beat frequency line width is 0.9kkHz



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