

Iodine-stabilized Laser

Based on Precilasers' narrow-linewidth 633/532nm laser and all-fiber iodine frequency-stabilized module, the 633/532nm 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



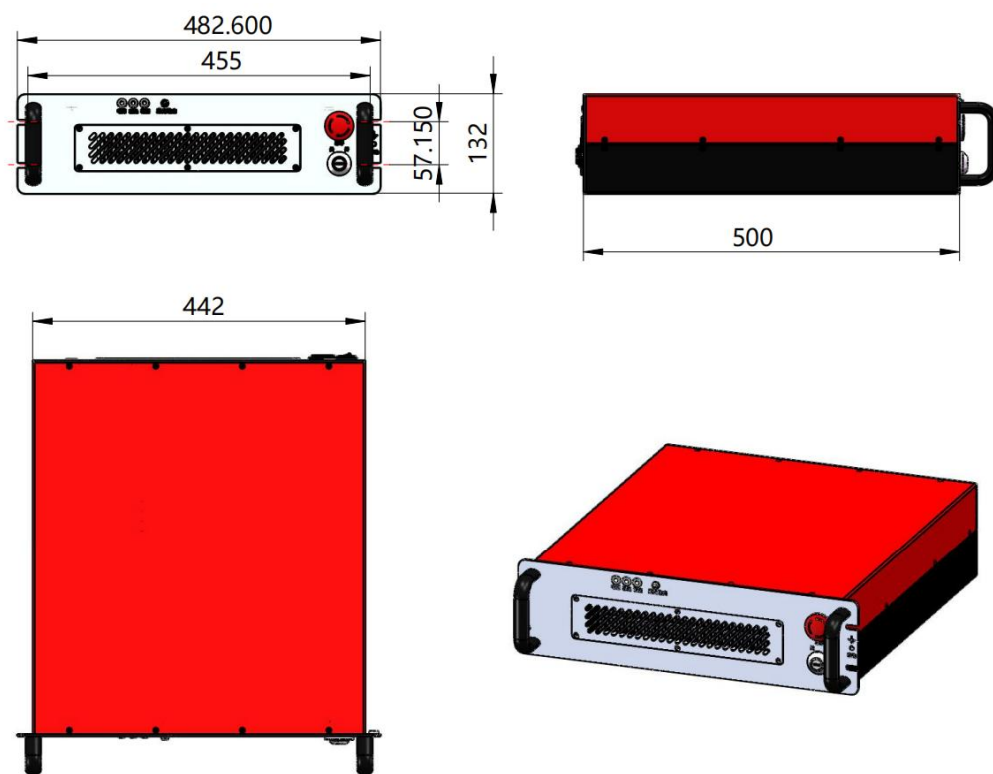
Specification			
Partnumber	FL-SF-X-Y ⁽¹⁾ -MTS		
Center Wavelength	532nm	633.0068nm ⁽²⁾	
Output Power	>10mW	>100mW	>10mW >100mW
Linewidth (100 us integration) ⁽³⁾	<20kHz		
Frequency Stability	Iodine molecule frequency stabilization, 10ppb@1hrs, <1ppb@30s		
Long Term Power Stability	<0.75% @3hrs, RMS		
Output Mode	Single-mode polarization-maintaining fiber output, FC/APC Connectors		
Beam Quality	$M^2 < 1.1$		
Polarization Extinction Ratio	>20dB, Linear		
Cooling	Air Cooling		
Temperature	15-30°C		
Power Supply	100-240V, AC, 50/60Hz		
Power Consumption	<100W		
Weight	<35kg		

(1) X: laser wavelength, unit: nm, Y: laser power, unit: W, for example, output power 0.1W: FL-SF-633-0.1-MTS,

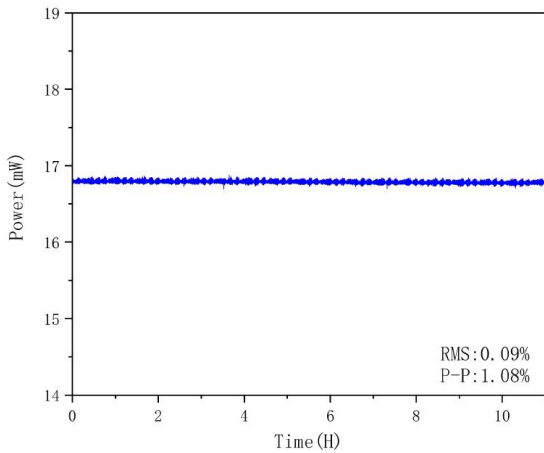
(2) For other central wavelengths, please contact us by email

(3) Measurement of fiber delay by self-heterodyne beat frequency method

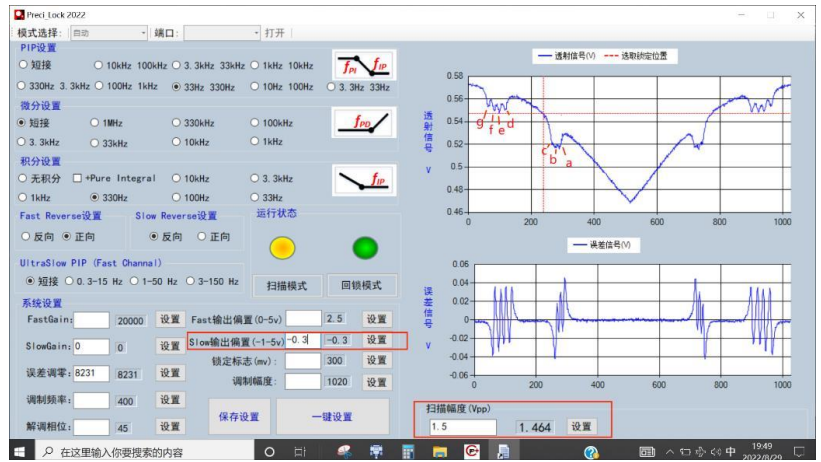
❖ Product Dimensions



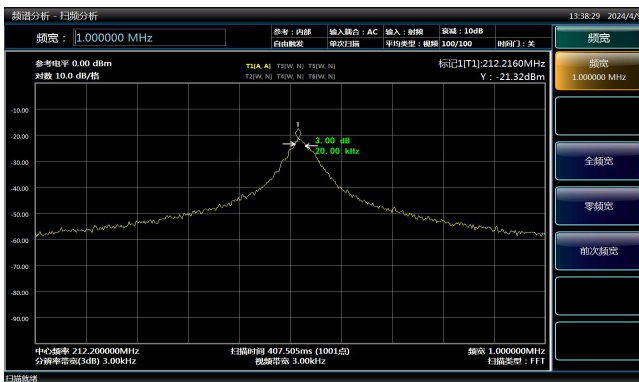
❖ Performance(typical value)



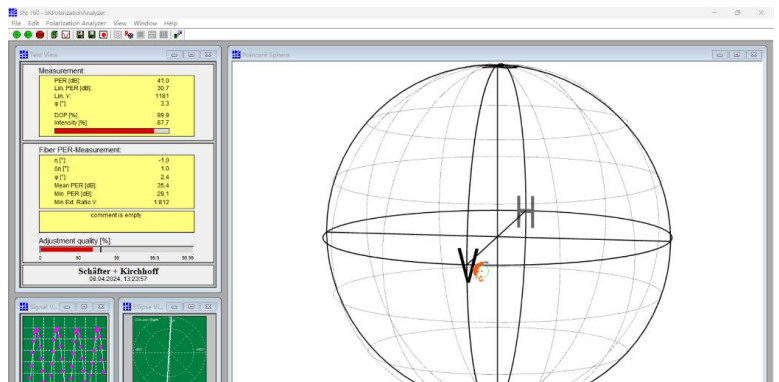
633nm output power stability test, RMS value is 0.09%, P-P value is 1.08%.



Frequency stabilization interface, can lock to different absorption peaks



Linewidth test, beat frequency linewidth is 20kHz



Optical fiber output PER>23dB



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⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.
 CLASS 4 Laser Products

