

## Dual Output 780nm Narrow Linewidth Laser (DFB)

Based on 1560nm fiber DFB seed laser, low noise erbium-doped fiber amplifier and high efficiency frequency doubling module, Precilasers can provide high power 780nm laser, which is widely used in quantum precision measurement and optical precision measurement.

### Features

- Ultra-small Size
- Narrow Linewidth
- Tunable
- Continuous Laser

### Applications

- Rb Atom Quantum Computing
- Rb Atom Atomic Gravimeter
- Precision Distance Measurement



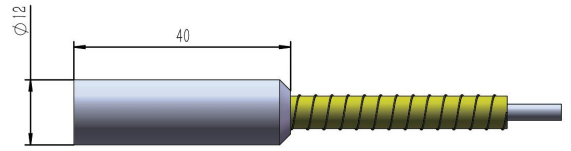
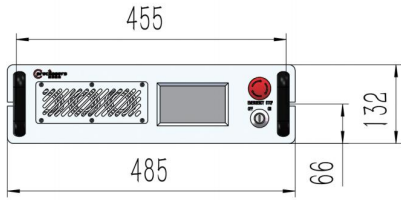
Specification		
Partnumber	FECL-SF-780-2-2-CW	
Note	Two completely independent 780nm frequency-doubled lasers, accepting customization of various structures	
Center Wavelength	780.24nm	
Output Power	Independent dual channel output, Each output>2W	
Operation Mode	Continuous	
Tuning Range (Temperature)	> 0.5nm, Continuous without mode hop	
Output Mode	Single-mode polarization-maintaining fiber output <sup>(1)</sup>	
Linewidth <sup>(2)</sup> (100us Integration Time)	< 2kHz	< 5kHz
Polarization Extinction Ratio	> 20dB	
Power Stability (3 Hours RMS)	< 0.75%	
Beam Quality	$M^2 < 1.1$	
PZT Tuning Range	> 3GHz	
PZT Tuning Bandwidth	> 5kHz	
Cooling	Air Cooling	Water Cooling

(1) Spatial collimation output can also be selected at low power, with a diameter of 0.7-1mm. The single-mode polarization-maintaining fiber defaults to FC/APC connector. Please pay attention to the cleanliness of the fiber end face when using it.

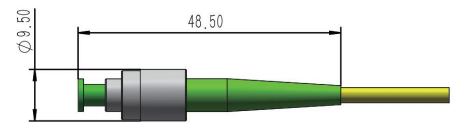
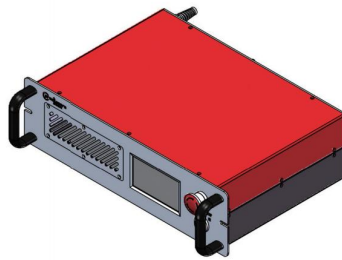
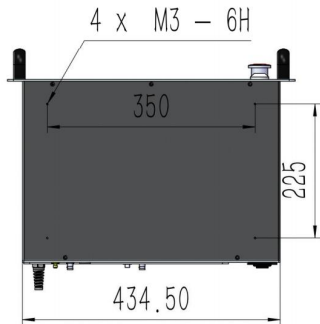
(2) Fiber delay self-heterodyne beat frequency measurement

Other parameters	
Temperature	15-30°C
Power Supply	100-240V AC, 50/60Hz

## ❖ Product Dimensions



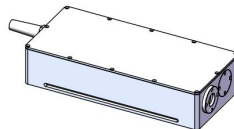
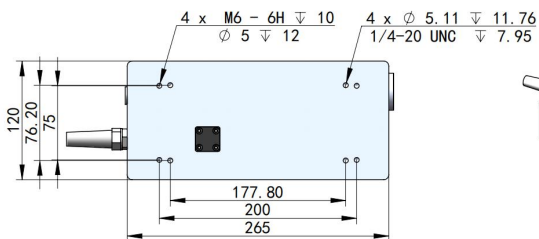
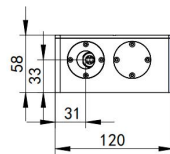
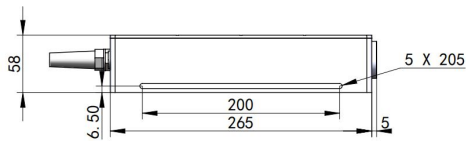
780波导输出准直头



780波导输出跳线头

Controller Size

Single-mode Polarization-maintaining Fiber Output, One of the two, Power  $\leq 2W$



Spatial Frequency Doubling Output Laser Head



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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

