

795nm Narrow Linewidth Laser (DFB, Spatial Output)

Based on fixed external cavity diode seed laser, low noise erbium doped fiber amplifier and high efficiency frequency doubling module, Precilasers can provide high power 795nm 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	FL-SF-795-X ⁽¹⁾ -CW			
Center Wavelength	795nm			
Output Power	0.2W	0.5W	2W	4W
Operation Mode	Continuous			
Tuning Range (Temperature)	> 0.5nm, Continuous without mode hop			
Output Mode	Spatially Collimated Output			
Beam Waist Diameter	0.6-1mm			
Linewidth ⁽²⁾ (100us Integration Time)	< 2kHz		< 5kHz	
Polarization Extinction Ratio	> 20dB			
Power Stability (3 Hours RMS)	< 0.75%			
Beam Quality	M² < 1.1			
PZT Tuning Range	> 6GHz			
PZT Tuning Bandwidth	> 5kHz			
Cooling	Air Cooling			

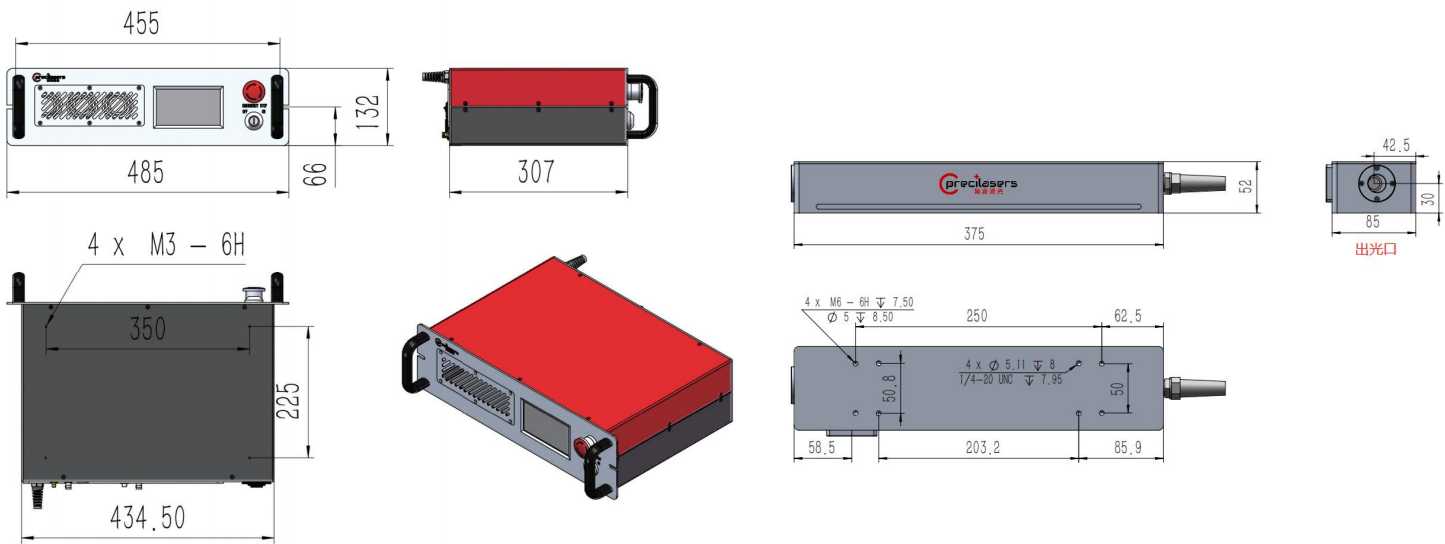
(1) X represents power. For example, if the power is 2W, the model number is FL-SF-795-2-CW.

(2) Fiber delay self-heterodyne beat frequency measurement

Other Parameters	
Temperature	15-30°C ⁽¹⁾
Power Supply	100-240V AC, 50/60Hz

(1) High temperature environment option: can be used in an environment of 0-40°C

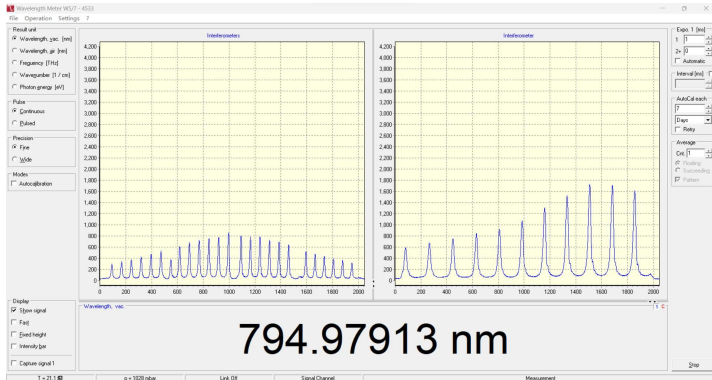
❖ Product Dimensions



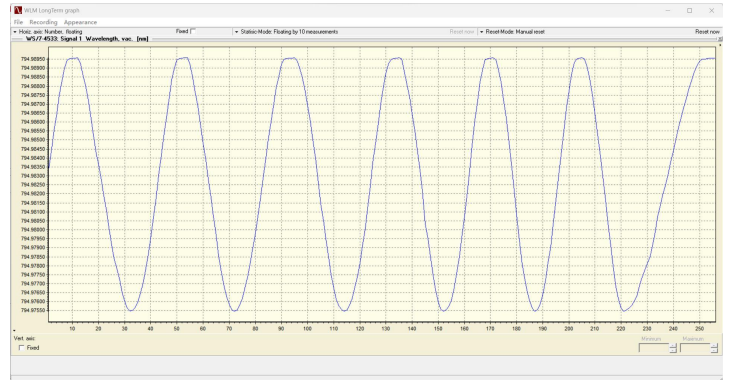
Laser Controller

Laser Head

❖ Performance (typical value)



Center Wavelength



The PZT port receives a 0-5V voltage signal, and the seed frequency changes by 14GHz



Shanghai Precilasers Technology Co., Ltd.

📍 Floor 2, Building 2, No. 1918, Xupan Road, Jiading District, Shanghai

☎ 021-59160265

www.precilasers.com info@precilasers.com



⚠ Laser Hazard

Visible or invisible laser radiation, avoid eye or skin exposure to direct, reflected or filtered radiation.

CLASS 4 Laser Products

