

High-power infrared laser (923-950nm)

Based on the doped laser and high efficiency frequency module, PreciLasers can provide high power 923-950nm laser with high power and narrow Line width, which can be applied in the fields of Quantum computing and quantum precision measurement.

Features

- narrow linewidth
- high power
- Never mode-hop

Applications

- Quantum computing
- Quantum precision measurement



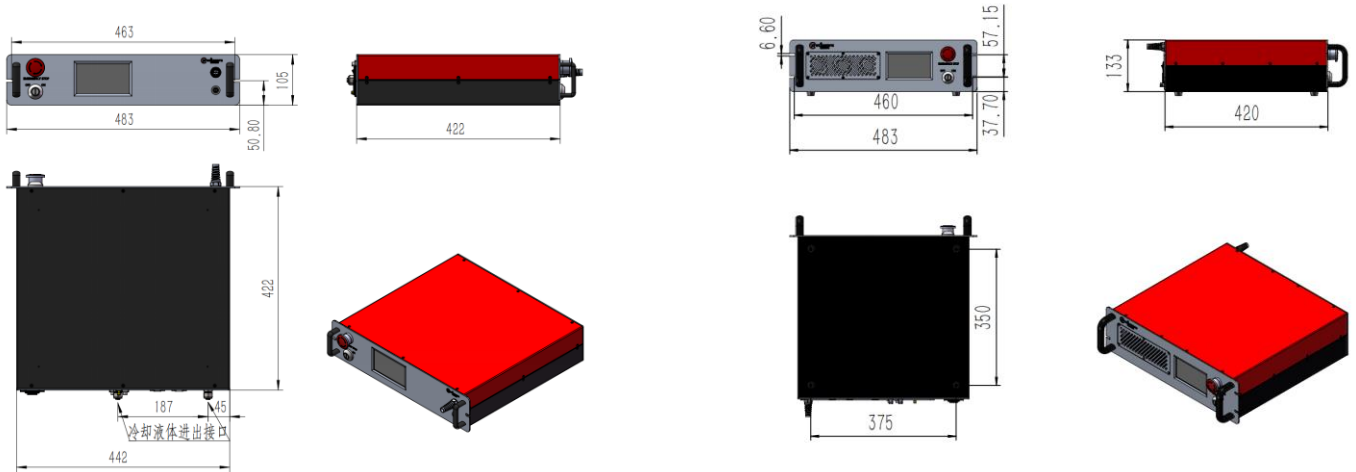
Optical parameters			
Available range of wavelengths	923-950nm		
Commonly used wavelength	935nm		
Output power	0.2W	2W	5W
Tuning range (temperature)	> 0.5nm		
Output mode	Spatial collimation output, 0.7-1mm in diameter		
Line width ⁽¹⁾ (100us integration time)	< 20kHz		
Polarized extinction ratio	> 20dB		
Power Stability (3-hour RMS)	< 0.75%		
Beam quality	$M^2 < 1.1$		
PZT tuning range	> 3GHz		
PZT tuning bandwidth	> 5kHz		
Cooling method	Air Cooling		Water cooling

(1) The optical fiber delay is measured from the heterotropic beat frequency method

Option	
Fiber output	For the laser with power 2W, single mode bias fiber output can be selected
AOM option	The tuning bandwidth is > 500 kHz, and the tuning range is greater than ± 5 MHz

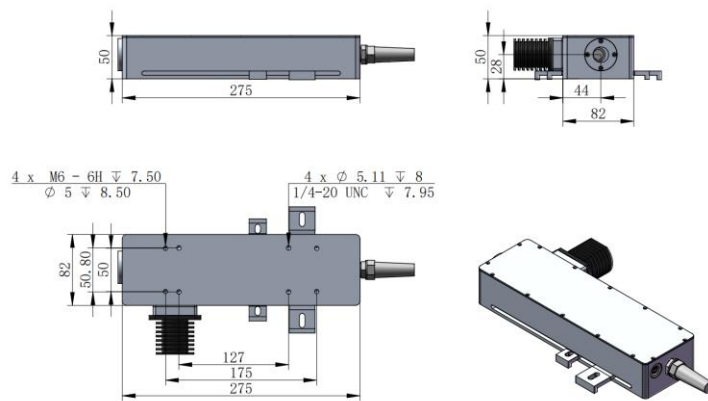
Other parameters	
Working temperature	15-25°C
Supply electricity	100V-220V, AC , 50Hz

❖ Product Dimensions



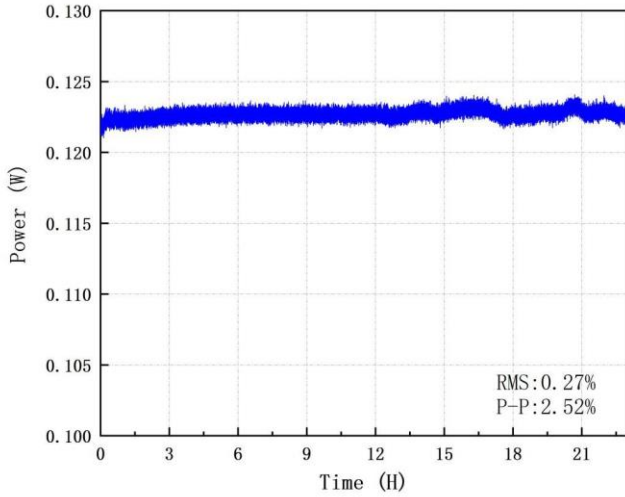
Case-Water Cold

Case-Air-cooled (power 2W)

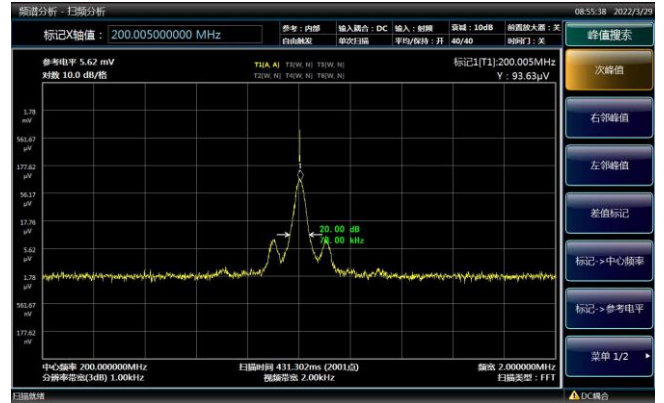


Laser head- -space output

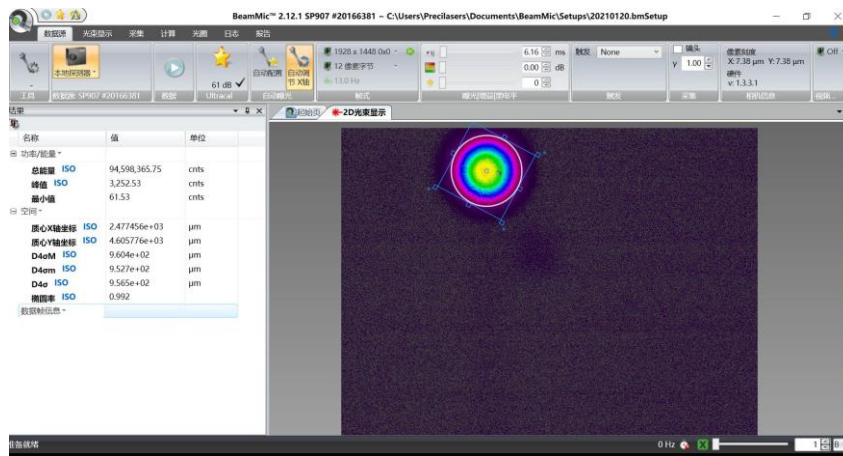
❖ Performance indicator test (typical value)



Power stability test: 0.27@23h



Line width test: 3.9 kHz




Spot test: at 300mm away from the window, the spot diameter is 0.9565mm, and the elliptical rate is 0.992



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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