

440-506nm Laser

NARROW-LINEWIDTH CW LASERS



440-506nm Laser Based on high-power, low-noise fiber lasers amplification, sum-frequency technology and frequency doubling technology , Precilasers can provide high-power, narrow linewidth laser output with a wavelength ranging from 440 to 506nm.

- Narrow Linewidth Low
- High Power Power Stability
- Excellent Beam Quality
- Never Mode
- High Temperature And Vibration
- Resistance
- Lithium Ion
- Calcium Ion

Specifications

Parameter	FL-SF-XXXX-YY-CW (1)
Wavelength Range	440-460nm / 460-475nm / 475-506nm
Typical Wavelength	455nm / 461nm / 480nm
Seed Laser Type	Fiber DFB Seed Laser (1760-2024nm)
Output Power	>1W/6W / >2W/3W/6W / >2W/5W
Thermal Tuning Range	>0.25nm, Never Mode-hop
Output Mode	Free Space Output
Beam Diameter (2)	0.7-1.0mm
Power Tuning Range	10-100%
Beam Pointing Stability	<50μrad
Linewidth (3) (100us)	<40kHz
PER	linear,>20dB
Power Stability	<0.75%@3hours, RMS
Beam Quality	TEM00, M2<1.1
Fast Frequency Tuning Range	>3GHz
Fast Frequency Tuning Bandwidth	>5kHz
AOM Tuning Range (Optional)	>±5MHz
AOM Tuning Bandwidth (Optional)	>500kHz
RIN	<0.3% (RMS,10Hz-100MHz)
Cooling	Air Cooling/Water Cooling
Temperature	15-30 °C (Air Cooling) or 15-35 °C (Water Cooling)
Power Supply	100V-240V, AC, 50/60Hz
Communication	RS422

Source: WaveQuanta product database. For ordering, customization (wavelength, power, package) and quotation, contact sales@wavequanta.com.