

CW 266nm DUV Laser

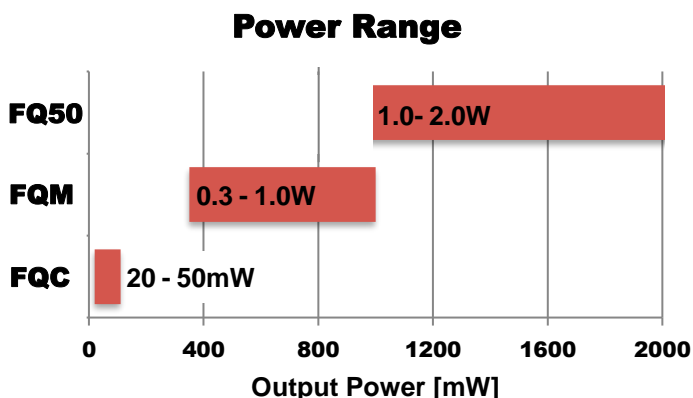
from 20mW up to 2W, the world's highest



レーザー学会産業賞 優秀賞
Laser Industry Award for Excellent Product

Choice from 3 Models

We have three models of continuous wave, single frequency 266nm lasers covering a wide range of output powers. These models are marks on our history of continuous development of more than 20 years. Over 270 units of our laser products have shipped all over the world into various fields.



Super High Purity BBO Crystal

The outstanding quality of OXIDE's proprietary BBO crystal enables the continuous operation over 3,000 hours at 1W and over 1,000 hours even at 2W at Every Single Spot of the crystal.

The small crystal deterioration leads to the output with a high beam quality and stable long-term operation.



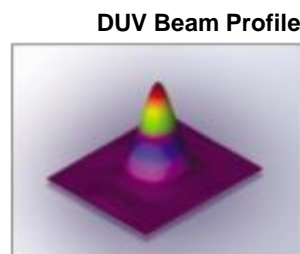
Sophisticated Servo Locking Technology

A proprietary, high-speed, precision Voice Coil Motor (VCM) servo actuator drives stable CW operation of the laser.






Eco-friendly

Highly efficient wavelength conversion laser system results in an extremely low power consumption of less than 340 watts.



Specifications

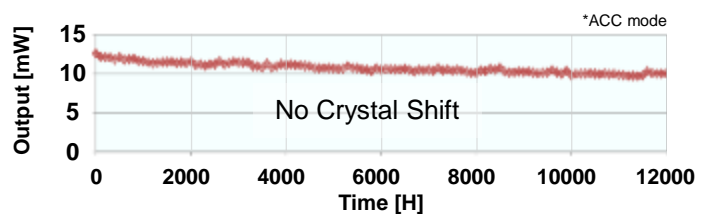
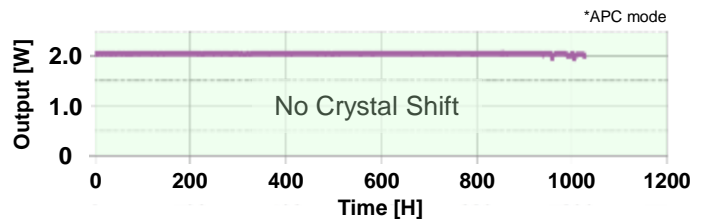
Model	Frequad-HP FQ50-20 / -10	Frequad-M FQM-10 / -07 / -05 / -03	Frequad-C Fqc-50 / -20	
				
Optical	Wavelength	266 nm	266 nm	266 nm
	Output Power	2.0 / 1.0 W	1.0 / 0.7 / 0.5 / 0.3W	50 / 20mW
	Linewidth	< 0.005 pm	< 0.005 pm	< 0.005 pm
	Power Stability	< ± 1 % / 8 hrs	< ± 1 % / 8 hrs	< ± 3 % / 8 hrs
	Extinction Ratio	> 100:1	> 100:1	> 100:1
	Beam Quality	TEM00, M ² < 1.2	TEM00, M ² < 1.2	TEM00, M ² < 1.3
	Polarization	Vertical, Linear	Vertical, Linear	Vertical, Linear
	Beam Diameter	3 mm ± 0.3 mm	3 mm ± 0.3 mm	0.8 mm ± 0.2 mm
	Divergence (1/e ²)	< 0.2 mrad	< 0.2 mrad	< 0.4 mrad
Ellipticity	≥ 85 %	≥ 85 %	≥ 90 %	
General	Power Supply	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz
	Power Consumption	< 300 W	< 340 W	< 70 W
	Cooling	Air	Water	Air
	Dimensions (Head)	240 x 840 x 160 mm	350 x 590 x 124 mm	153 x 202 x 79 mm

* Customization available upon request

Applications

- Semiconductor Inspection
- Raman Spectroscopy
- Photoluminescence
- Disk Mastering
- Fiber Bragg Grating

Long Lifetime



Class 4 laser products
per IEC/EN 60825-1:2007

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