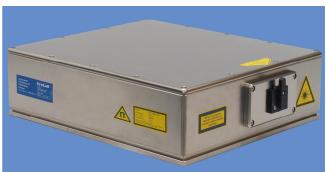


## FQCW 266-200

Diode Pumped Continuous Wave Solid State Laser

- 266 nm
- Continuous Wave
- Single Frequency
- Low Noise
- TEM<sub>00</sub>
- Up to 200 mW
- Conduction Cooling





holography • inspection • analytics • lithography		
	Model	FQCW 266-200
	Nominal Output Power	200 mW
	Output Power Adjustability	20 - 220 mW
	Wavelength	266 nm
	Linewidth	< 300 kHz
	Coherence Length	> 1000 m
	Beam Quality Factor M <sup>2</sup>	< 1.3
	Polarization	vertical, > 100:1
	Beam Diameter	0.55 mm $\pm$ 20 %
	Beam Divergence (full angle)	< 0.8 mrad
Optical Data	Beam Pointing Stability 1)	< 3 μrad / K
	Static Alignment Tolerance 4)	Position $< \pm 0.25$ mm, Angle $< \pm 2.5$ mrad
	Power Stability 1) (8 h, 1 s average)	< 1 % rms
	Noise (100 kHz - 10 MHz)	< 0.5 % rms
Electrical Data	Line Voltage	90 V - 250 V AC
	Power Consumption Mean (Max)	100 W (200 W)
	Communication Interface	USB / RS 232
	Safety Equipment	key switch, interlock
	Dimensions (control unit)	363 x 325 x 115 mm
	Weight (control unit)	5.3 kg
	Dimensions (laser head)	379(+50) <sup>5)</sup> x 270 x 91 mm
	Weight (laser head)	17 kg
	Operating Temperature	20 °C to 35 °C non-condensing
Miscellaneous	Warm-up Time (cold start)	< 15 minutes
Options	Purge Interface for Exit Window	CDA 0.5LPM, ~2%rH, particle filter 0.01µm

## Notes

- 1. After 30 minutes warm-up in the temperature range 20 35  $^{\circ}$ C, temperature change < 1  $^{\circ}$ C/hour.
- 2. The exit window must be equipped optionally with a purge interface in case of external photo contamination.
- 3. This laser system is equipped with the Automatic Crystal Shifter (ACS).
- 4. Position and angle of static alignment tolerances are specified with regard to laser beam exit.
- 5. Length of laser head is +50mm expanding by using purge interface.

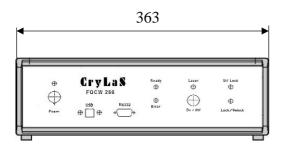
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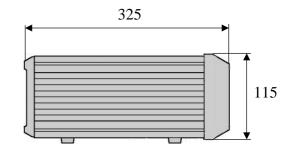




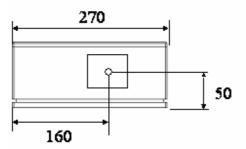
## **Dimensions**

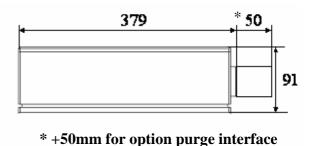






Laser Head:





All dimensions in mm

## **Laser Warning**

The FQCW 266 lasers are class 4/IV according to IEC 60825-1:2007





INVISIBLE

LASER RADIATION

AVOID EYE OR SKIN EXPOSURE TO

DIRECT OR SCATTERED RADIATION

CLASS 4 LASER PRODUCT

Model: FQCW266-200
Wavelength: 266 nm
max. Output: 400 mW (cw)

Laser Class: 4 (IV)

Complies with IEC 60825-1:2007
Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001

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