

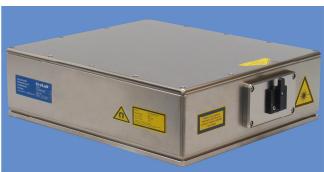


## **FQCW 266-10**

Diode Pumped Continuous Wave Solid State Laser

- 266 nm
- Continuous Wave
- Single Frequency
- Low Noise
- TEM<sub>00</sub>
- Up to 10 mW
- Conduction Cooling





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	Model	FQCW 266-10
	Nominal Output Power	10 mW
	Output Power Adjustability	2 – 12 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
	Beam Pointing Stability 1)	< 3 μrad / K
Optical Data	Static Alignment Tolerance 3)	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 x 270 x 91 mm
	Weight (laser head)	17 kg
Missellanssus	Operating Temperature	20 °C to 35 °C non-condensing
Miscellaneous	Warm-up Time (cold start)	< 15 minutes

## Notes

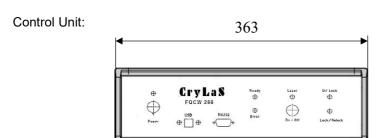
- 1. After 30 minutes warm-up in the temperature range 20 35  $^{\circ}$ C, temperature change < 1  $^{\circ}$ C/hour.
- 2. The exit window is equipped with the Manual Window Shifter (MWS) in case of external photo contamination. This laser system is not equipped with the Automatic Crystal Shifter (ACS) due to the lower power densities on all internal optical elements
- 3. Position and angle of static alignment tolerances are specified with regard to laser beam exit.

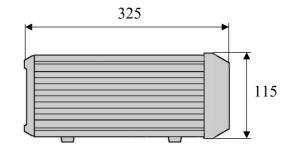
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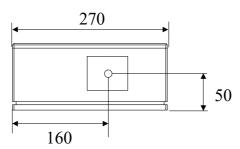


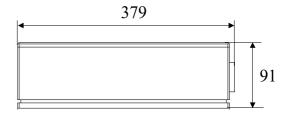
## **Dimensions**











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: FQCW266-10

Wavelength: 266 nm

max. Output: 20 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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