

Preliminary

FQCW266-10-C

Diode Pumped Continuous Wave Solid State Laser

- 266 nm
- Continuous Wave
- Single Frequency
- Low Noise
- TEM₀₀
- Up to 10 mW
- Conduction Cooled
- Patented Design*



spectroscopy • inspection • analytics • mastering

	Model	FQCW266-10-C*
Optical Data	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 ²	< 1.3
	Polarization	vertical, > 200:1
	Beam Diameter	0.65 mm ± 20 %
	Beam Divergence (full angle)	< 0.8 mrad
	Beam Pointing Stability ¹⁾	< 3 µrad / K
	Static Alignment Tolerance	Position < ± 0.25 mm, Angle < ± 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)	70 W (120 W)
	Communication Interface	USB / RS 232 / TCP-IP optional
	Safety Equipment	key switch, interlock
Miscellaneous	Dimensions (control unit)	164 x 165 x 42 mm ³
	Weight (control unit)	1 kg
	Dimensions (laser head)	279 x 190 x 91 mm ³
	Weight (laser head)	6 kg
	Operating Temperature	20 °C to 35 °C non-condensing
Warm-up Time (cold start)	< 15 minutes	

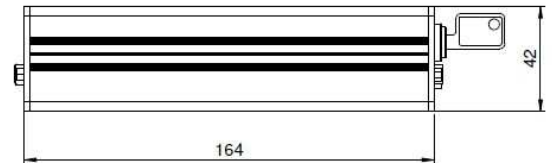
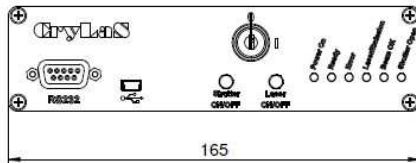
Notes

1. After 30 minutes warm-up in the temperature range 20 - 35 °C, temperature change < 1 °C/hour.
2. The exit window is equipped with the Manual Window Shifter (MWS) in case of external photo contamination.

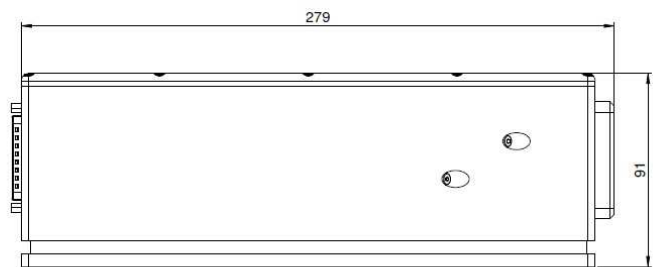
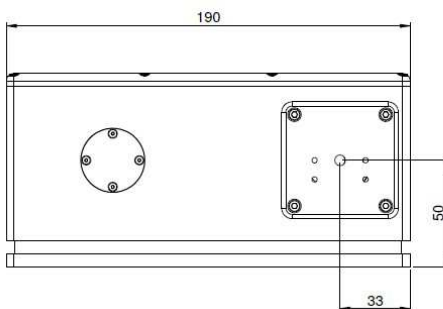
* Protected by patents DE102012208912B4, US 9543734 B2

Dimensions

Control Unit:



Laser Head:



All dimensions in mm

Laser Warning

The FQCW 266 lasers are class 4/IV according to IEC 60825-1:2014

