

## **Deep UV Lasers**



The LUV series is an ultra compact deep UV laser offering excellent performance and reliability thanks to its sealed monolithic BBO resonant cavity and its LCX DPSS laser pump source.

The LUV laser is available in free space output, with 3 beam diameter options or with a removable MM fiber coupling.

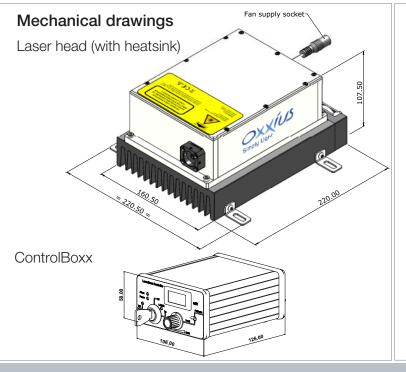
UV Raman spectroscopy Fluorescence Imaging Protein autofluorescence DNA detection Cathodoluminescence Deep UV laser source Compact laser head 280nm and 266nm

Up to 10 mW of CW optical power
Single Longitudinal Mode
Adjustable power 10% - 100%
Fast stand-by mode for extended lifetime
Beam diameter 0.3 mm
TEM<sub>00</sub> collimated beam
Compact laser head: 200 x 138 x 70 mm
Multimode fiber coupling option
AOM modulator option

266 280

## **Specifications**

	LUV-266-10-COL-PP	LUV-280-10-COL-PP	
Optical characteristics			
Central emission wavelength	266.2 nm	280.7 nm	
Linewidth	≤ 300 kHz (SLM)		
Polarization state	Linear, horizontal		
Polarization extinction ratio	≥ 100:1		
Continuous wave output power	10 mW	10 mW	
Power stability over 8 hours, temperature variation of ± 3°K	± 2 %		
Optical noise rms, 50kHz - 10MHz bandwidth	0.5 %		
Transverse singlemode free-space beam	*		
Beam characteristics	TEM <sub>00</sub> collimated beam		
Beam waist diameter at 1/e², at 50mm from output aperture	0.2 mm		
Beam divergence at 1/e², full angle, in far field	1.5 mrad		
Beam quality factor (M²)	≤ 1.4		
Beam pointing stability	≤ 5 µrad/°K		
Beam diameter options ( July 2017)	x2 / x2.7 enlargement		
Beam waist diameter at 1/e², at 50mm from output aperture	0.6 mm / 0.8 mm		
Fiber coupling option			
Multimode Fiber Coupling	200μm core diameter, 0.22 <b>NA</b>		
Specifications at nominal power			



General Specifications - Plug and Play version			
Technology	Monolithic resonant cavity pumped by LCX laser		
Communication interfaces	USB / RS232 / I/O interface		
Control electronics	Integrated into laser head		
Plug&Play controller	ControlBoxx (CDRH Compliant)		
Warm-up time	10 minutes typ. 15 minutes max.		
Supply voltage	100 -240V AC with external power supply		
Power Consumption	20 W typ., 25 W max.		
Thermal dissipation	Mounted heatsink, forced air flow		
Operating temperature	15 °C to 40 °C (ambient)		
Dimensions (L x W x H)			
Laser head with heatsink	220 x 161 x 110 mm		
Weight	6.5 kg with heatsink		
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CAUTION - CLASS 4 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION