

NEW!



LUV series

UV Raman spectroscopy
Fluorescence Imaging
Protein autofluorescence
DNA detection
Cathodoluminescence

Deep UV laser source Compact laser head 280nm and 266nm

- * Up to 20 mW of CW optical power
- * Single Longitudinal Mode
- * Adjustable power 0% 100%
- * Beam diameter 0.3 mm or 0.8 mm
- * TEM₀₀ collimated beam
- * Compact laser: 200 x 138 x 70 mm
- * Multimode fiber coupling option
- * AOM modulator option

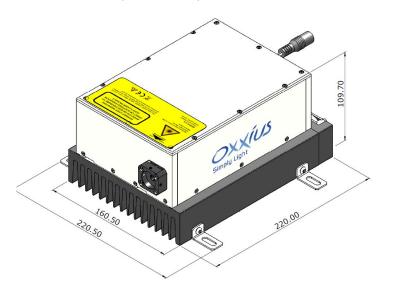
266 nm 280 nm

Optical specifications

MODEL	LUV-266-10	LUV-266-20	LUV-280-10
Optical characteristics			
Central emission wavelength	266.2 nm	266.2 nm	280.7 nm
Spectral width	≤ 1 MHz (SLM)		
Polarization state	Linear, horizontal		
Polarization exctinction ratio	≥ 100:1		
Continuous wave output power	10 mW	20 mW	10 mW
Power stability over 8 hours,	± 2 %		
temperature variation of ± 3°K	p-to-p		
Beam characteristics	TEM ₀₀ collimated beam		
Beam waist diameter (1/e²),	0.3 mm		
at 50mm from output aperture			
Beam divergence at 1/e²,	1.5 mrad		
full angle, in far field			
Beam quality factor (M²)	≤ 1.4		
Beam diameter options		x2 / x2.7 enlargement	
Beam waist diameter (1/e²),	0.6 mm / 0.8 mm		
at 50mm from output aperture			
Fiber Coupling option			
Multimode Fiber Coupling	50μm / 100μm / 200μm core diameter		

Mechanical drawings

Laser head (with heat sink)



General specifications

Technology	External monolithic	
reciniology	resonant cavity	
Communication interface	USB / RS232	
Laser Controller	External	
Start-up time	10 minutes typ.,	
Start-up time	15 minutes max.	
Supply voltage, AC	110V - 240V	
Power consumption	20 W typ., 25 W max.	
Cooling method,		
laser head	Conduction	
laser driver	Forced air flow	
[OPTION] Heat sink for the laser head		
Operating temperature,	20 °C to 40°C	
measured on the base plate		
Dimensions (L x W x H),		
laser head	200 x 138 x 70 mm	
laser head with optional heat sink	220 x 161 x 110 mm	
laser driver	100 x 180 x 140 mm	



