

Product specifications (preliminary)

Revision
Revision date

4
July 24, 2014

Model	UV-280-20		
Optical characteristics			
	Min.	Typ.	Max.
Central emission wavelength	279 nm	280 nm	281 nm
Spectral width			100 MHz
Polarization state	Linear, horizontal orientation		
Polarization extinction ratio	25 dB		
Continuous wave output power	20 mW		
Power stability over 8 hours, temperature variation of $\pm 3^{\circ}\text{K}$		$\pm 2\%$ p-to-p	
Beam characteristics	Monomode collimated beam		
Beam waist diameter ($1/e^2$), at 50mm from output aperture		0,3 mm	
Beam divergence at $1/e^2$, full angle, in far field		1,5 mrad	
Beam quality factor (M^2)		1.3	1.4
[OPTION] Telescope (embedded)	x 2 / x 2.7 enlargement		
Beam waist diameter ($1/e^2$), at 50mm from output aperture		0,6 mm / 0.8 mm	
Interfaces, peripherals and environment			
Technology	External monolithic resonant cavity		
Interface	USB		
Laser driver	Present		
Start-up time			15 min.
Supply voltage, AC	115 V		230 V
Power consumption			70 W
Cooling method, laser head laser driver	Conduction via base plate Conduction via base plate		
Operating temperature, measured on the base plate	20 °C		40 °C
Dimensions (L x W x H), laser head laser driver	200 x 150 x 80 mm ³ 140 x 200 x 80 mm ³		