

Specifications 150/500-Models

	Bluephoton® 150/500	Redphoton® 150/500
Wavelengths & Powers	Single-Mode (SM): 375nm / 20mW 405nm / 55mW 405nm / 120mW 445nm / 50mW 473nm / 20mW Multi-Mode (MM): 405nm / 400mW 445nm / 500mW	Single-Mode (SM): 635nm / 5mW 639nm / 40mW 643nm / 150mW 658nm / 130mW 670nm / 15mW 685nm / 35mW 785nm / 120mW 808nm / 200mW 830nm / 200mW 852nm / 150mW 980nm / 150mW 1016nm / 100mW 1060nm / 100mW Multi-Mode (MM): 670nm / 500mW 808nm / 1000mW and much more
Beam Diameter (other diameters on request)	1.25mm (1/e ²) +/- 0.25mm (MM beam diameter may vary)	1.25mm (1/e ²) +/- 0.25mm (MM beam diameter may vary)
Beam Quality M ²	<1.2 (SM) <3 (MM)	<1.2 (SM) <10 (MM)
Astigmatism (corrected)	<0.2*Z _R	<0.2*Z _R
Beam Ellypticity	<1.1:1 (SM)	<1.1:1 (SM)
Polarisation	>100:1 vertical	>100:1 vertical
Power Stability	<0.5% / h	<0.5% / h
Noise 0Hz-100MHz	<0.5% peak<>peak (CW)	<0.5% peak<>peak (CW)
Modulation Speed	Analog: 1MHz Digital: >150MHz (150 Mod.) Digital: >500MHz (500 Mod.)	
Modulation Input Signals	Analog: 0...5V -> 0...100% Digital: TTL, PECL LV-TTL or LVDS on request	
Rise- and Falltime	<1ns	
Modulationstiefe	>250 : 1	
Supply Voltage	24VDC, 2 Amp.	
Features	Safety- Interlock RS-232 Interface	
Options	LDM.COL - Collimator Objective LDM.FOC - customized Focussing Objective LDM.FASY.XXX - Fibre Coupling Unit LDM.AAC - Automatic Aging Compensation LDM.24VPSU - Worldwide Power Supply Unit LDM.MON - High Speed Light Monitoring	