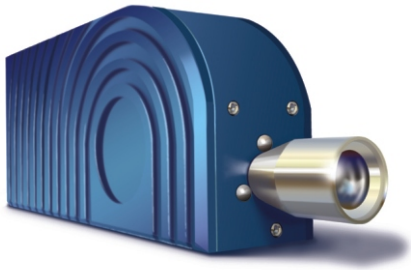
High stabilized Laserdiode-Modules

Highpower LDM-Serie
UV / blue / violet - digital modulated



Product Specifications

Power @ wavelength (further wavelengths on request)	375 nm / 40 mW, 440 nm / 40 mW 473 nm / 40 mW 405nm (-5nm/+15nm selectable) >100mW (typically 110mW) 445 nm / 100 mW
Rise & Fall Time	<1ns (0-100%)
Max. Modulation Frequency	> 500Mhz digital
Modulation Depth - digital -	250:1 @ 150 or 500Mhz
Pulse-to-Pulse Stability	<0,5% @ 200Mhz
Noise RMS (20 Hz - 500Mhz)	<1%
Pointing stability	<5µrad/°C
Power stability	<0,5% over 1h, <2% over 8h

Beam Parameters

Beam Waist Diameter at 1/e²	1,1mm +/- 10%, up to 15mm on Request
Spatial Mode (Far Field)	TEMoo
Ellypticity	<0,2 x Z_R (Factory adjusted)
Astigmatism	
Beam Divergence (Full Angle)	<0,7mrad @ 1,1mm
Static Alignment Tolerances	´+/- 250µm (x/y) +/- 2mrad (angle)

Laser Head Specifications

ESD Protection	Level 4 (air and contact)
Dimensions max. (L x W x H)	214mm x 50mm x 87mm (93,5mm) (length depends on used optics)
Beam Height	23,5mm or 30 mm (with Baseplate)
Weight	1500g
Operating Temperature	15°C - 40°C
Storage Temperature	´-20°C - 60°C
Max. Heat Load from Laser Head	6W

Controller Specifications

ESD Protection	Level 3 (air and contact)
Computer-Interface	RS-232 with custom Command-Interface galvanic-shielded (500V-AC barrier)
Weight	ca. 2 x 250 g
Dimensions (L x W x H)	2 pcs. of 165 x 130 x 44mm in galvanic-shielded Housing (500V-AC barrier)

DC Input Requirements

Input Voltage	18-36VDC nominal 24VDC optional 85 - 245 VAC 50/60 Hz
Input Power	2 x <25W

Main features of the LDM-Series

- *Extremely compact design on european and US-american guidelines*
- *Separable laserhead and controlling unit*
- Active temperature stabilized
- Flexible to customized specifications
- High *efficiency of optical design, > 95%*
- *Astigmatism adjustable*
- F*ast modulation > 500MHz*

Ask for CW version

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