

LDM-XT series

Laser diodes modules



- ⦿ Large variety of wavelength from 375 nm to 980 nm
- ⦿ Outstanding long term stability
- ⦿ Excellent beam quality
- ⦿ Maintenance free
- ⦿ Free beam and fiber coupled version available



Laser diodes modules

LASOS® LDM-XT series

The LASOS LDM-XT laser series is the latest generation of laser diode modules designed to fulfil specific customer's needs for a particular application.

Its modular concept allows adapting different requirements regarding optical and electronical properties, whether it is delivered as an OEM component for instrumentation or for stand alone applications in science or research.

The customer has several options to ensure the best price-performance ratio. With its compact and robust housing, easy setup and intelligent control the LASOS LDM-XT laser series is the ideal choice when reliability and accuracy matters.

The laser diode modules are available in a free beam version or with a permanently aligned coupling into a single mode polarization maintaining fiber. The fiber output may be customized. The customer can choose between different assembly options regarding fiber and output. Combined with LASOS optomechanics like the precision plug system it can be made a versatile tool in complex optical setups.

Areas of application:

- Microscopy
- Flow cytometry
- Bioanalytical research
- Testing
- Industrial measurements
- Science and education

Specifications

Wavelengths (nm)	375, 395, 405, 415, 425, 445, 457, 473, 488, 505, 515, 520, 633, 638, 660, 685, 705, 730, 785, 808, 830, 980
Spectral width (FWHM)	typ. <3 nm, optional < 0.5 nm ¹
Operating power	≤ 250 mW ¹
Output power stability over 8 h	±2 % ²
Noise 10 Hz ... 10 MHz	<0,5 % rms
Pointing stability	<6 μrad K ⁻¹
Warm up period	<10 min
Operating voltage	12 Vdc ±10%
Power consumption	<24 W

Beam Parameter	Free beam	Fiber coupled
Beam diameter	0,8	FC-connector (Collimator optional)
Beam quality M ²	<1,3	<1,2
Roundness	>0,85	>0,9
Polarisation ratio	>100 : 1	>80 : 1

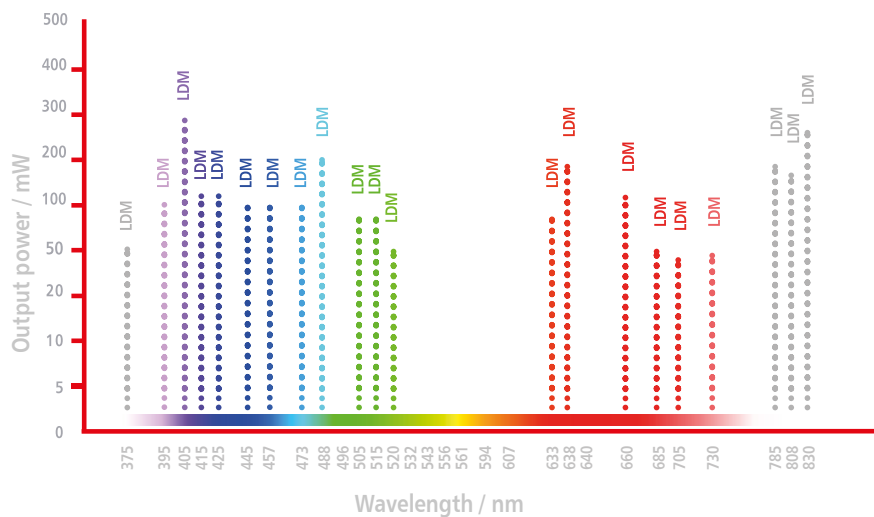
Modulation	Power control mode	Current control mode
Rise-/Falltime (5...95 %)	<1 μs	<10 ns
Max. bandwidth		
Analog	1 MHz	100 MHz
Digital	1 MHz	1 MHz
Modulation depth (analog)		
max. 1 MHz	1 : 100	1 : 100
max. 50 MHz	N/A	1 : 20
max. 100 MHz	N/A	1 : 4

¹ depending on wavelength

² in power control mode, ΔT ≤ ±3 K

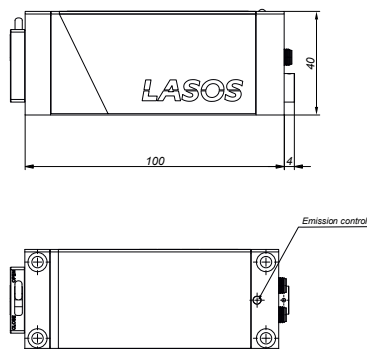
Wavelengths

LASOS LDM-XT series

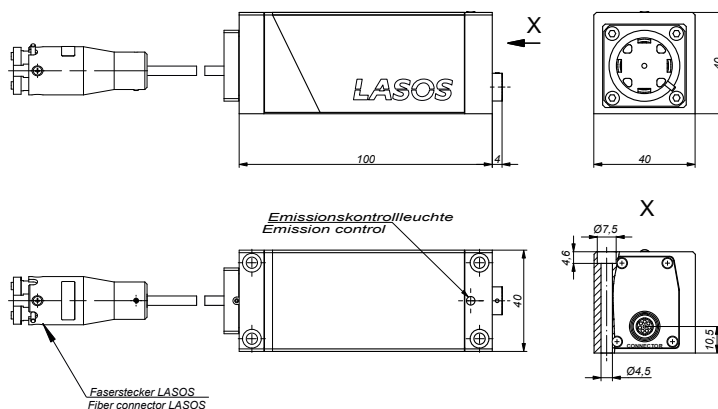


Drawings

LASOS LDM-XT series free beam with shutter



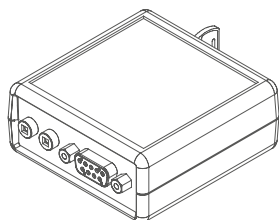
LASOS LDM-XT series free beam fiber coupled



Accessories

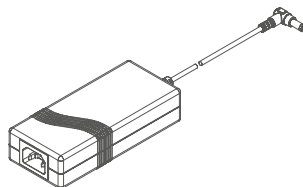
LDM-XT free beam

Stand-alone kit with SwitchBox and Power supply.



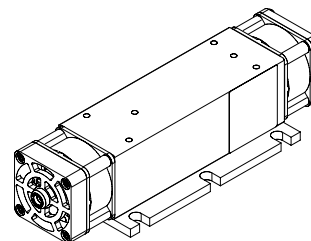
SwitchBox SSI 1200

- ⊙ CDRH compliant
- ⊙ Part of stand alone kit



Power supply 12 V

- ⊙ Operating voltage: 12 V
- ⊙ Operating current: 2.5 A
- ⊙ Part of stand alone kit



Heat sink LHA 1200

- ⊙ Operating voltage: 12 V DC
- ⊙ Operating current: 80 mA

Worldwide Representatives



1 Benelux
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