

LDM Series Highpower Multiline



Dual Diode - High power laser diode module integrating two laser diodes for double output power

Available laser models: CWA, CWA.L, 150 / 500, TA Deepstar®, DC180, PS350, A350

Wavelengths & Powers
(other wavelengths and powers
on request)

Blue- /Greenphoton® Dual Diode

Single-Mode (SM):
375nm / 40mW
395nm / 240mW
405nm / 110mW, 240mW
425nm / 240mW
445nm / 100mW, 200mW
457nm / 200mW
460nm / 200mW
473nm / 40mW, 160mW
488nm / 40mW, 120mW, 160mW
515nm / 50mW

Multi-Mode (MM):
375nm / 400mW (M² = 5...6)
405nm / 800mW (M² = 5...6)
445nm / 1000mW (M² = 2...3)
445nm / 2400mW (M² = 5...6)

Redphoton® Dual Diode

Single-Mode (SM):
635nm / 10mW
637nm / 300mW
639nm / 80mW, 200mW
643nm / 300mW
658nm / 250mW
670nm / 30mW
685nm / 70mW
785nm / 240mW
808nm / 400mW
830nm / 400mW
852nm / 300mW
980nm / 300mW
1016nm / 200mW
1060nm / 200mW

Multi-Mode (MM):
638nm / 500mW

Beam diameter
(other diameters on request)

1.25mm (1/e²) +/- 0.25mm
3 mm (1/e²) +/- 0.3mm

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3 mm (1/e²) +/- 0.3mm

Beam quality M²

< 1.2 (SM)
< 6 (MM)

< 1.2 (SM)
< 6 (MM)

Astigmatism (corrected)

< 0.2*ZR

< 0.2*ZR

Beam ellipticity

< 1.1:1 (SM)

< 1.1:1 (SM)

Polarisation

cross-polarised 100:100

cross-polarised 100:100

Features

Safety-Interlock
see different laser models

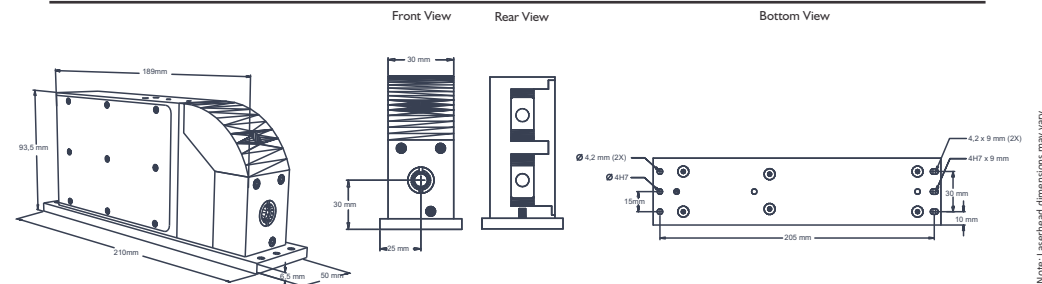
Options

LDM.COL - collimator objective
LDM.FOC - customized focussing objective
LDM.FASY:XXX - fibre coupling unit
LDM.24VPSU - worldwide power supply unit

MORE

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Wavelength in nm Power in mW Laser model

Dual Diode Laserhead



Note: Laserhead dimensions may vary

Dual Wavelength - Laser diode modules
with two wavelengths in a co-linear laser beam

Available laser models: CWA, CWA.L, 150 / 500, TA Deepstar®, DC180, PS350, A350 (two different models possible)

Dual Wavelength

Wavelengths & Powers
(other wavelengths and powers
on request)

Available wavelengths:

Single-Mode:

- 375nm / 20mW
- 395nm / 120mW
- 405nm / 55mW, 120mW
- 415nm / 120mW
- 425nm / 120mW
- 445nm / 50mW, 100mW
- 457nm / 100mW
- 460nm / 100mW
- 473nm / 20mW, 80mW
- 488nm / 20mW, 60mW, 80mW
- 515nm / 25mW
- 635nm / 5mW
- 637nm / 150mW
- 639nm / 40mW
- 639nm / 120mW
- 643nm / 150mW
- 658nm / 130mW
- 670nm / 15mW
- 685nm / 35mW
- 785nm / 120mW
- 808nm / 200mW
- 830nm / 200mW
- 852nm / 150mW
- 980nm / 150mW
- 1016nm / 100mW
- 1060nm / 100mW

Multi-Mode:

- 375nm / 200mW (M² = 5...6)
- 405nm / 400mW (M² = 5...6)
- 445nm / 500mW (M² = 2...3)
- 638nm / 250mW (M² <6)
- (others on request)

Beam diameter
(other diameters on request)

1.25mm (1/e²) +/- 0.25mm
3 mm (1/e²) +/- 0.3mm

Beam quality M²

SM < 1.2
MM < 6

Astigmatism (corrected)

< 0.2*ZR

Beam ellipticity

< 1.1:1 (SM)

Polarisation

> 100 : 1 vertical

Features

Safety-Interlock
see different laser models

Options

LDM.COL - collimator objective
LDM.FOC - customized focussing objective
LDM.FASY-XXX - fibre coupling unit
LDM.24VPSU - worldwide power supply unit

The systems can be equipped
with any two diodes

BACK

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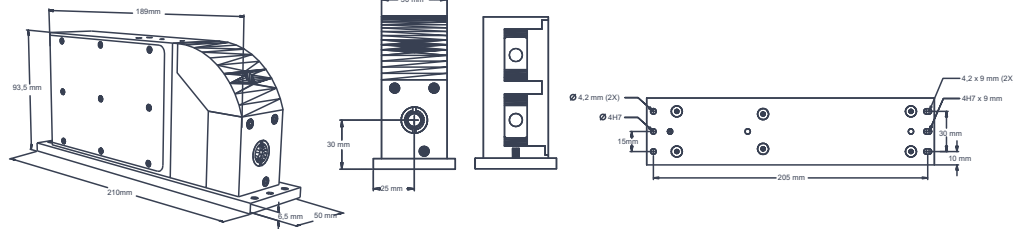
Wavelength 1 / 2 in nm Common power in mW Laser model

Dual Wavelength Laserhead

Front View

Rear View

Bottom View



Note: Laserhead dimensions may vary

Triple Wavelength - Laser diode modules
with three wavelengths in a co-linear laser beam

Available laser models: CWA, CWA.L, 150 / 500, TA Deepstar®, DC180, PS350, A350 (three different models possible)

Triple Wavelength

Wavelengths & Powers
(other wavelengths and powers
on request)

Available wavelengths:

Single-Mode:

- 375nm / 20mW
- 395nm / 120mW
- 405nm / 55mW, 120mW
- 415nm / 120mW
- 425nm / 120mW
- 445nm / 50mW, 100mW
- 457nm / 100mW
- 460nm / 100mW
- 473nm / 20mW, 80mW
- 488nm / 20mW, 60mW, 80mW
- 515nm / 25mW
- 635nm / 5mW
- 637nm / 150mW
- 639nm / 40mW
- 639nm / 120mW
- 643nm / 150mW
- 658nm / 130mW
- 670nm / 15mW
- 685nm / 35mW
- 785nm / 120mW
- 808nm / 200mW
- 830nm / 200mW
- 852nm / 150mW
- 980nm / 150mW
- 1016nm / 100mW
- 1060nm / 100mW

Multi-Mode:

- 375nm / 200mW (M² = 5...6)
- 405nm / 400mW (M² = 5...6)
- 445nm / 500mW (M² = 2...3)
- 638nm / 250mW (M² <6)
- (others on request)

Beam diameter
(other diameters on request)

1.25mm (1/e²) +/- 0.25mm
MM beam diameter may vary

Beam quality M²

SM < 1.2
MM < 6

Astigmatism (corrected)

< 0.2*ZR

Beam ellipticity

< 1.1:1 (SM)

Polarisation

> 100 : 1 vertical

Features

Safety-Interlock
see different laser models

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

The systems can be equipped
with any three diodes

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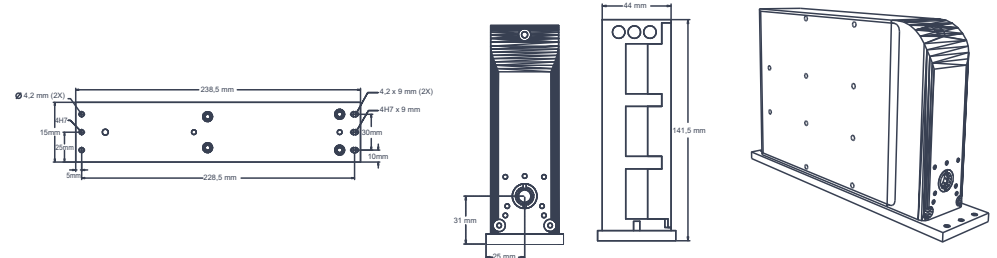
Wavelength 1 / 2 / 3 in nm Common power in mW Laser model

Triple Wavelength Laserhead

Bottom View

Front View

Rear View



Note: Laserhead dimensions may vary