

OxxiUS

Simply Light

L1C Laser head

Advanced functions
on *LaserBoxx* sources



Motorized Power Attenuator (MPA)

- 0 to 100 % control range
- Unaltered beam quality and spectrum
- USB and RS232 interfaces
- External analog control

Accousto-Optic Modulator (AOM)

- 3 MHz modulation bandwidth
- Transmission efficiency: 85 % min.
- USB and Ethernet interfaces
- External analog control

Isolators

- Compact and alignment-free

Raman Spectroscopy

Interferometry

Microscopy

Seeder

The *L1C* platform meets the demand for reliable and controllable laser sources in metrology and Raman spectroscopy. This robust, compact, and cost-effective solution enhances the capabilities of the

LaserBoxx lasers. The *L1C* comprises a *LaserBoxx* aligned with either a modulator (AOM), an attenuator (MPA), or an isolator, and can also be equipped with a fiber coupling.

Configure your *L1C*

L1C-MPA

Power adjustment 0 - 100%
Electro-mechanical shutter included

L1C-AOM

3 MHz bandwidth modulation
Digital or linearized analog modulation
Requires the BTC-AOM controller

L1C-ISO

Optical isolator

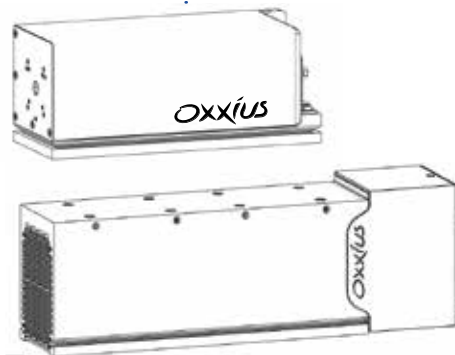
Fiber coupling (option)

- Single mode (incl. polarization-maintaining) fiber
- Multimode fiber
- kineMATIX® fiber coupler
- Liquid guide fiber

LaserBoxx

laser source

LCX, LPX, LSX or LBX models



Active heatsink (option)

Allows operations in ambient air up to 40°C

Specifications

	MPA with e-m shutter	AOM with e-m shutter	Isolation	Single-mode fiber coupling	Multimode fiber coupling
Transmission ratio	≥ 85 %	≥ 80 %	≥ 70 % ⁽¹⁾	≥ 70 %	≥ 80 %

⁽¹⁾ wavelength-dependent

	MPA with e-m shutter	AOM with e-m shutter
Response time	0% to 100% in 1 second	300 ns max. (10 - 90 %) 100ns typical
Dynamic range	30 dB min. Full contrast	45 dB typ. Full contrast

Dimensions

L1C laser head

Dimensions depend on the contents of the platform (l.w.h):

- Standard *L1C*: 154 x 62 x 64 mm
- Extended *L1C+*: 178 x 62 x 64 mm

BTC-AOM controller

Can drive up to two *L1C* heads:
168 x 207 x 90 mm

HTSK-10 heatsink

274 x 66 x 74 mm

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