

Advanced functions on Laserboxx sources



L1C

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
- Isolation: 17dB min.

The L1C platform addresses the need for stable and power-controllable laser sources in metrology or Raman spectroscopy.

The compact and rugged L1C consists of a **LaserBoxx** source aligned with either a modulator (AOM), an attenuator (MPA), or an isolator. A fiber coupling can furthermore be added.

2022

Raman Spectroscopy
Interferometry
Microscopy
Seeder

Configure your L1C

↳ L1C-MPA

Power adjustment 0%-100%
Electro-mechanical shutter included

↳ L1C-AOM

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

↳ L1C-ISO

Optical isolator

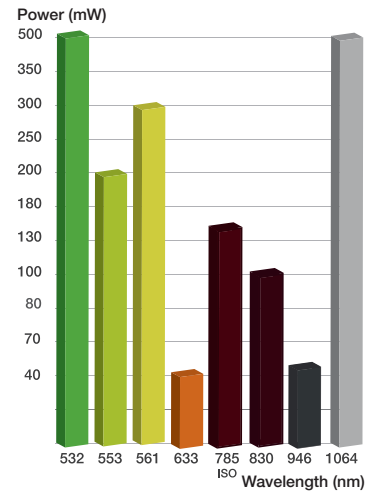
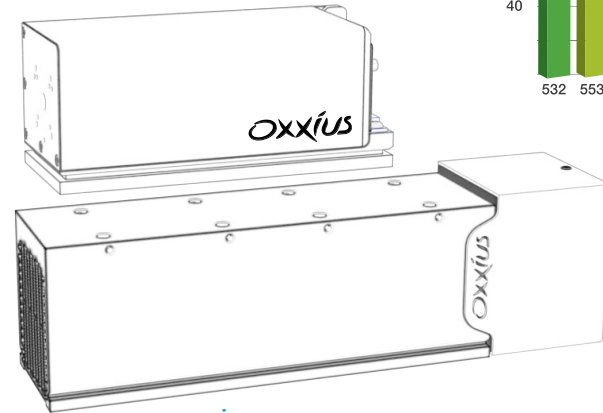


LaserBoxx

laser source

LCX, LPX, LSX or LBX-S models

Single longitudinal mode emission



Fiber coupling (option)

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

Heat sink (option)

Allows operations in ambient air up to 40°C

Specifications

	MPA with e-m shutter	AOM with e-m shutter	Isolator	Single-mode fiber coupling	Multimode fiber coupling
Transmission ratio	≥ 85%	≥ 85%	≥ 70% wavelength-dependent	≥ 70%	≥ 80%

	MPA with e-m shutter	AOM with e-m shutter
Response time	0% to 100% in 1 second	300ns max. (10%-90%) 100ns typical
Dynamic range	40dB min. Full contrast with e-m shutter	45dB typ. Full contrast with e-m shutter

Dimensions

↳ L1C laser head

Exists in two sizes, depending on the contents of the platform (l.w.h):
(1) Standard L1C: 154 x 62 x 64 mm
(2) Extended L1C+: 178 x 62 x 64 mm

↳ BTC-AOM controller

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

↳ ACX-HTSK heat sink

274 x 66 x 74 mm

Contact us

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