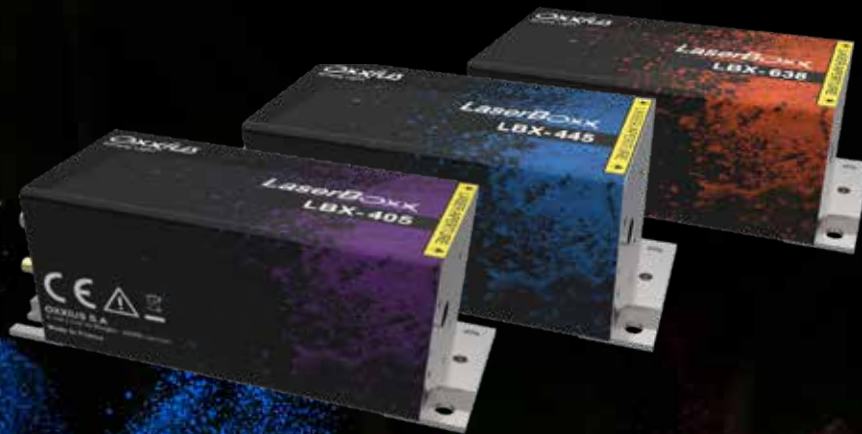




***LaserBoxx* HPE series**

High Power Lasers



Fluorescence Microscopy
Optogenetics
Illumination
High-throughput inspection
Polymer curing
Laser pumping
Lithography
Additive manufacturing

The **LaserBoxx** HPE series are high power laser sources offering excellent performance and reliability in a compact laser head with integrated electronics.

The optical output is a multimode elliptical beam, either propagating in free space or injected into an optical fiber.

Key features

- Laser head with integrated driver
- Elliptical collimated beam
- Multimode fiber coupling option
- Analog modulation function
- USB, RS232 and analog interfaces
- Industry standard footprint

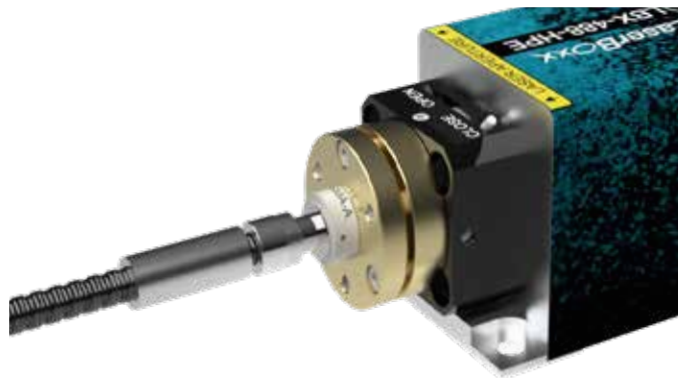
Fiber coupling

This option offers a cost-effective and compact way to couple the **LaserBoxx** beam into a multimode fiber.

The standard models feature:

- coupling efficiency exceeding 80 %
- round or square core 50 to 200 μm size
- FC / APC delivery connector
- 0.22 numerical aperture
- 2-meter fiber length

Other configurations are available on request.



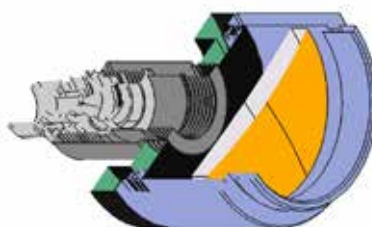
LBX-488-1000-HPE coupled into a multimode fiber

Custom capabilities

- **LaserBoxx** HPE sources combined into a **L4Cc** or **L6Cc** wavelength combiner
- Speckle reducer option
- Square or hexagonal-shaped fibers, liquid light guide
- Beam-shaping optics



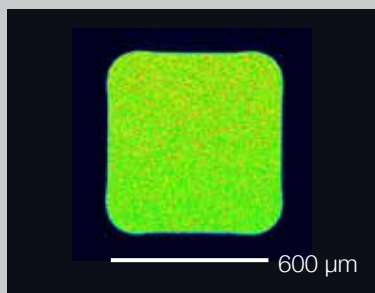
L6Cc-HPE combiner with fiber delivery



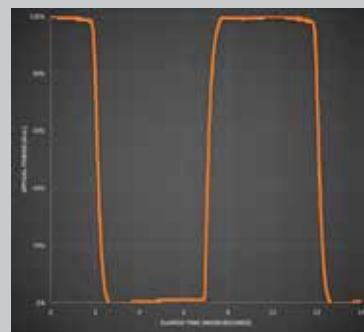
Customized collimator (option)

Performances

Power distribution
out of a square-core fiber
(LBX-488-1000-HPE)



Modulated output;
5 μs pulses at
100 kHz repetition rate
(LBX-405-1200-HPE)

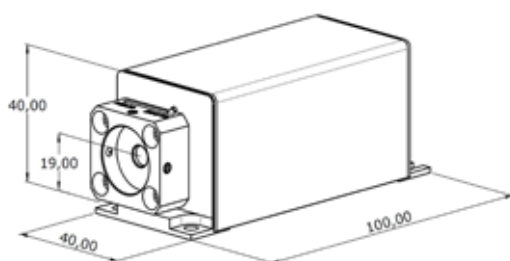


Specifications

	Emission wavelength (tolerance)	Linewidth (-3dB)	Power stability over 8h and ±3 K	Output power continuous wave	Beam dimensions (typ.)	Analog modulation function 0-5V input voltage		Multimode fiber coupling option		Supply voltage	
						Bandwidth -3 dB cut-off frequency, ACC	Rise / Fall time 10-90%, ACC	Delivered power	Fiber core diameter		
LBX-375	375 nm (±5 nm)	≤ 5 nm 2 nm typical	± 1%	200, 400 mW	3.0 x 1.4 mm	0 Hz - 1 MHz	≤ 300 ns	160, 320 mW	50 μm or larger	5 - 12 VDC	
LBX-395	395 nm (-10/+5 nm)			270 mW	2.5 x 0.8 mm		≤ 200 ns	215 mW		9 - 12 VDC	
LBX-405	405 nm (±5 nm)			900, 1200 mW	2.6 x 1.2 mm			720, 960 mW			
LBX-450	450 nm (±10 nm)			650, 1200 mW	2.6 x 0.7 mm			500, 950 mW			
LBX-473	473 nm (±5 nm)			1000 mW	2.6 x 1.2 mm			800 mW			
LBX-488	488 nm (±5 nm)			1000 mW	2.2 x 1.2 mm			800 mW			
LBX-520	520 nm (±10 nm)			800 mW	2.7 x 0.8 mm		≤ 500 ns	600 mW	200 μm or larger		5 - 12 VDC
LBX-638	638 nm (±10 nm)			1100 mW	4.5 x 4.5 mm		≤ 200 ns	750 mW			
LBX-750	750 nm (±5 nm)			1200 mW	1.9 x 3.8 mm			950 mW			
LBX-785	785 nm (±5 nm)			800 mW	3.8 x 1.9 mm			640 mW			
LBX-830	830 nm (±5 nm)			1200 mW	5.2 x 2.6 mm			960 mW			
LBX-940	940 nm (±10 nm)			600 mW	1.9 x 3.8 mm			450 mW			
LBX-980	980 nm (±10 nm)			1000 mW	3.5 x 1.5 mm			800 mW		105 μm or larger	

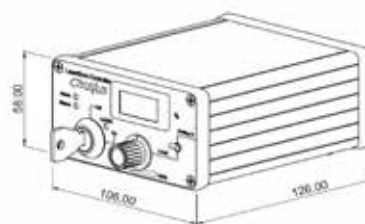
Plug and Play, CDRH-compliant version

Laser head with manual shutter



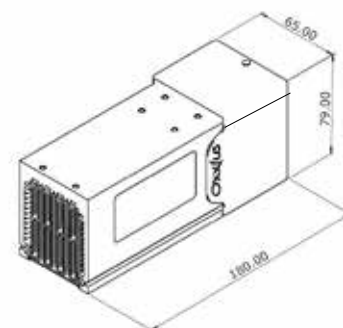
Dimensions
in mm

ControlBoxx controller



HTSK-7 heatsink (option)

For improved stability and heat management



	Plug and Play version	OEM version
Compliance	CE, including EN 60825-1:2014 FDA 21 CFR 1040.10/1040.11	FDA 21 CFR 1040.10 / 1040.11
Operating temperature	10 - 38°C ambient air with optional heat sink	10 - 50°C baseplate
Power consumption	10W typ. / 25W max.	
Storage temperature	0 to 60°C	
Supply voltage	100 to 240 VAC external power supply included	see «Specifications» above
Warm-up time	≤ 2 minutes	
Interfaces	USB, RS-232, dedicated electronic interface	





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