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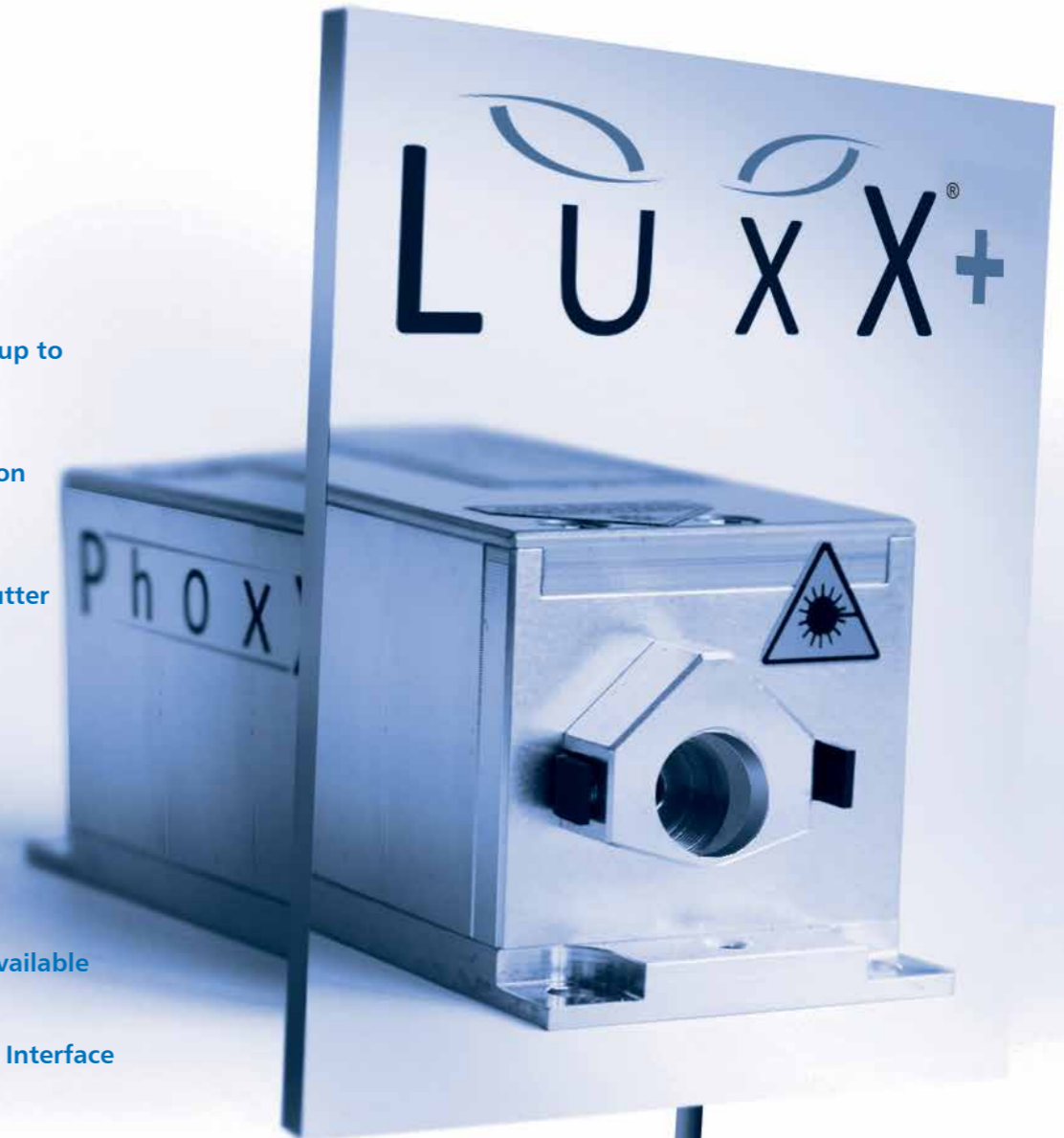


Feb 2017



LUX X⁺

Ultra Compact
High Performance Diode Lasers



Digital modulation up to
250 MHz

Analogue modulation
>3 MHz

Fast full ON/OFF shutter
function

High stability CW
operation

Ultra compact
one-box-solution

>30 wavelengths available

RS-232 and USB 2.0 Interface

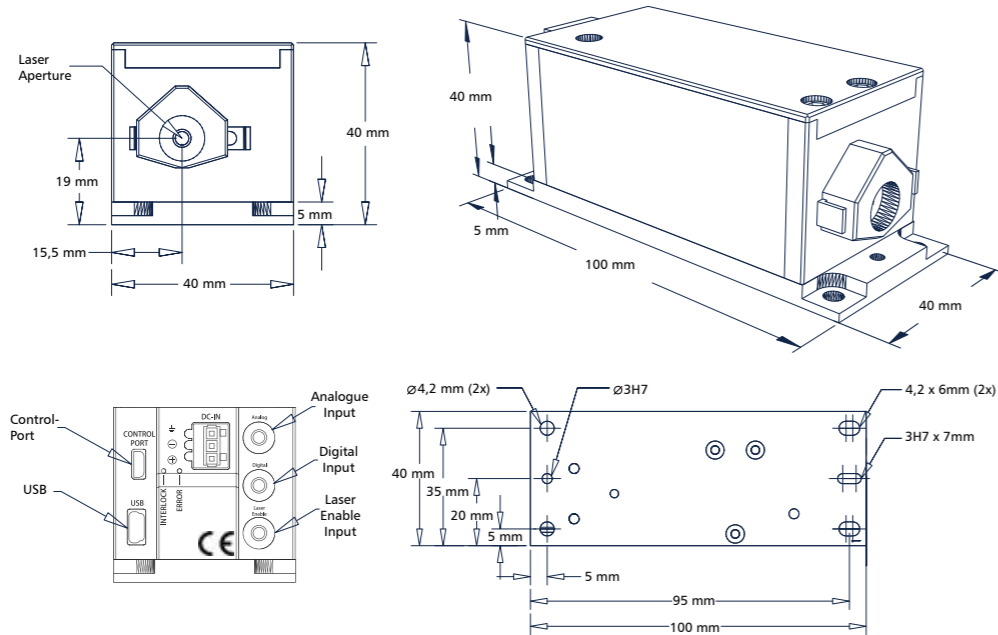
The Omicron LUXX+ Laser Series

The Omicron LuxX+® laser series offers high performance at a compact design. A broad variety of wavelengths and single-mode emission up to 300mW cover a wide range of applications. There are many options for diverse optical environments, such as single-mode and multi-mode fibre coupling or free-space emission with beam compressor or beam expander objectives. Easy electronic integration into existing or future designs is assured by versatile input signal types. With the USB2.0 and the RS-232 interface, the lasers can be controlled by processes of any application.

LUXX+ dimensions

Applications:

- Flow Cytometry
- Microscopy
- Test and Measurement
- Machine Vision
- CTP
- Microlithography
-



LUXX+ Laser Series Specification Table

LuxX+ Wavelengths	
375nm	20mW / 70mW
395nm	120mW
405nm	60mW / 120mW / 300 mW
415nm	120mW
425nm	120mW
445nm	50mW / 100mW
457nm	100mW
460nm	100mW
473nm	20mW / 100mW
488nm	25mW / 60mW / 80mW / 100mW / 200mW
505nm	80mW
515nm	25mW / 50mW / 80mW / 100mW
633nm	100mW
638nm	40mW / 100mW / 150mW / 200mW
642nm	140mW
647nm	140mW
660nm	130mW
685nm	50mW
705nm	40mW
730nm	40mW
785nm	120mW / 200mW
808nm	140mW
830nm	140mW
850nm	100mW
870nm	100mW
905nm	150mW
945nm	200mW
980nm	200mW
1030nm	150mW
1060nm	150mW
1080nm	80mW
1120nm	50mW
1310nm	50mW
1550nm	100mW

LuxX+ Specifications	
Typical beam diameter (1/e ²)	1.0...1.5mm (1/e ²), (depends on wavelength) - 0.7mm (1/e ²) +/- 0.1 mm with option XX.DSO
Beam quality M ²	< 1.15 (typical 1.05)
Beam ellipticity	< 1.1:1
Beam pointing stability (μrad/°C)	< 5
Polarisation ratio	> 100:1 vertical
Warm up time	< 3 minutes
Operation modes	
Mode 1	CW Operation (APC and ACC)
Mode 2	Analogue Modulation
Mode 3	Digital Modulation
Mode 4	Mixed Analogue & Digital Modulation
Digital modulation	
Modulation bandwidth	> 250MHz
Signal type	TTL (200 Ohm) / 0...IV (50 Ohm) / LV-PECL / PECL / LVDS (user-configurable)
Analogue modulation	
Modulation bandwidth	> 3MHz
Signal type	0...IV (50 Ohm) / 0...5V (1.2k Ohm) (user-configurable)
Laser enable input	
Modulation bandwidth	> 500kHz (complete ON/OFF)
Signal type	TTL (2 kOhm)
RMS noise characteristics	
20Hz ... 20MHz	< 0.2%
Long-term power stability (8h)	(< 0.5% in CW operation mode)
Electrical properties	
Laser operating voltage	12 VDC +/- 0.50V
Computer interface	
Type	RS-232 and USB2.0
Mechanical properties	
Dimensions laser head	100 x 40 x 40 mm (l x w x h)