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High-Performance OEM diode lasers

Small and compact design

14 different wavelengths between 375nm and 830nm

Single-Mode optical output power up to 140mW

TEC temperature-stabilized and conductively cooled through baseplate

High-Stability CW operation and high-speed digital and analogue modulation

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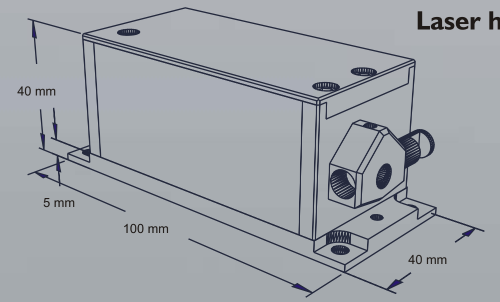
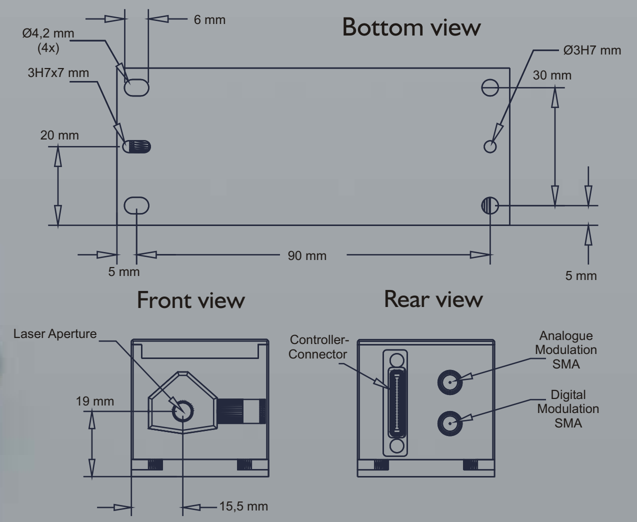
Smaller than you are used to
Stronger than expected !

The Omicron PhoxX® OEM Laser Series offers high-performance at a compact design. A broad variety of wavelengths and single-mode emission up to 140mW cover a wide range of applications. Easy integration into existing or future designs is assured by versatile input signal types. The USB2.0 and the RS-232 interface allow deep integration of the lasers into the applications process.

Applications:

Flow Cytometry
Confocal Microscopy
Printing / CtP
Microlithography
Reprographics
Test and Measurement
Machine Vision
….





PhoxX® OEM Laser Series Specification Table

Model	PhoxX® 375	PhoxX® 405-60	PhoxX® 405-120	PhoxX® 445	PhoxX® 473	PhoxX® 488	PhoxX® 638-40	PhoxX® 638-100	PhoxX® 642	PhoxX® 660	PhoxX® 685	PhoxX® 705	PhoxX® 730	PhoxX®785	PhoxX® 808	PhoxX® 830
Wavelength (+/- 5nm)	375nm	405nm	405nm	445nm	473nm	488nm	638nm	638nm	642nm	660nm	685nm	705nm	730nm	785nm	808nm	830nm
Optical output power	20mW	60mW	120mW	50mW	20mW	20mW	40mW	100mW	140mW	130mW	50mW	40mW	40mW	120mW	140mW	140mW
Typical beam diameter (1/e²)	1.0 … 1.5mm (depends on wavelength) - 0.7mm with PHOXX.DSO option															
Beam quality M²	<1.3															
Beam ellypticity	<1.2:1															
Beam pointing stability (µrad/°C)	<5															
Polarisation ratio	>100:1 vertical															
Warm up time	<3 minutes															
Operation modes																
Mode 1	CW Operation															
Mode 2	Analogue Modulation															
Mode 3	Digital Modulation															
Mode 4	Mixed Analogue & Digital Modulation															
Digital modulation																
Modulation bandwidth	>180MHz															
Signal type	TTL (200 Ohm) / 0…1V (50 Ohm) / LV-PECL / PECL / LVDS (user-configurable)															
Analogue modulation																
Modulation bandwidth	>3MHz															
Signal type	0…1V (50 Ohm) / 0…5V (1.2kOhm) (user-configurable)															
Laser enable input																
Modulation bandwidth	>150kHz (complete ON/OFF)															
Signal type	TTL (2 kOhm)															
RMS noise characteristics																
20Hz … 10MHz	< 0,2%															
10MHz … 500MHz	< 0,5%															
Long-term power stability (8h)	<+/- 2%															
Electrical properties																
Laser operating voltage	5.00 VDC +/- 0.50V															
Computer interface																
Type	RS-232 and USB2.0															
Mechanical properties																
Dimensions laser head	100 x 40 x 40mm (l x w x h)															
Dimensions laser controller	120 x 62 x 40mm (l x w x h)															