

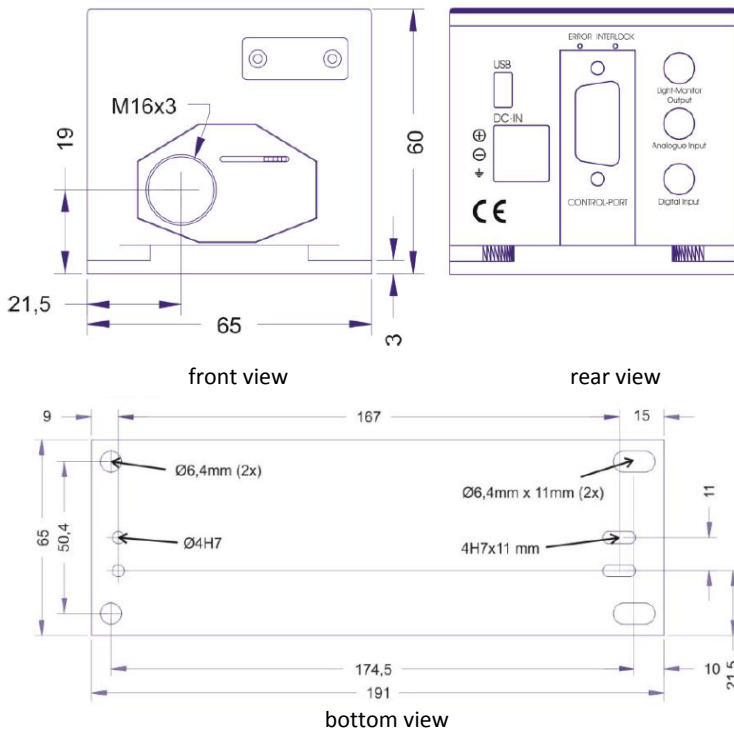
BrixX[®] NB



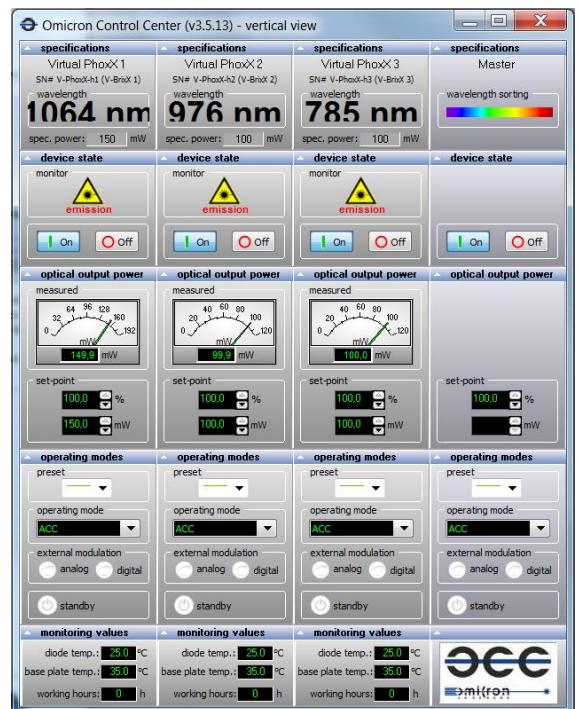
Narrow-bandwidth diode lasers with fiber-coupled or free-space output

The versatility of the BrixX[®] NB lasers covers a wide range of applications like RAMAN spectroscopy, laser seeding, metrology and many more. Depending on the model, the lasers are available with fiber coupled or free-space output and offer narrow spectral emission compared to standard diode lasers. Analog intensity control and digital modulation as well as a Light-Monitoring output can be used to control the laser by electronic signals. The USB2.0 and the RS-232 interface allow deep integration into PC controlled setups and software environments like LabView.

Dimensions (free-space version):



Control Software:

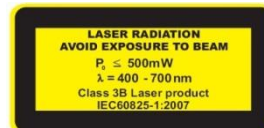


Specifications BrixX NB Diode Laser Series

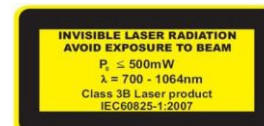
	Modell	Wavelength / Power	Bandwidth	SM / MM	Output
Wavelengths & Powers (other wavelengths and powers on request)	BrixX [®] 633-30 NB	633nm / 30mW	<500kHz	SM PM	FC/APC
	BrixX [®] 760-10 NB	760nm / 10mW	<10MHz	SM PM	FC/APC
	BrixX [®] 763-10 NB	763nm / 10mW	<10MHz	SM PM	FC/APC
	BrixX [®] 773-20 NB	773nm / 20mW	<10MHz	SM PM	FC/APC
	BrixX [®] 785-40 NB	785nm / 40mW	<10MHz	SM PM	FC/APC
	BrixX [®] 785-500 NB	785nm / 500mW	<0.15nm	MM	FC/APC
	BrixX [®] 795-40 NB	795nm / 40mW	<10MHz	SM PM	FC/APC
	BrixX [®] 852-50 NB	852nm / 50mW	<10MHz	SM PM	FC/APC
	BrixX [®] 855-50 NB	855nm / 50mW	<10MHz	SM PM	FC/APC
	BrixX [®] 976-500 NB	976nm / 500mW	<500kHz	SM PM	FC/APC
	BrixX [®] 1064-40 NB	1064nm / 40mW	<10MHz	SM PM	FC/APC
	BrixX [®] 1064-300 NB	1064nm / 300mW	<100kHz	SM PM	FC/APC
	BrixX [®] 1064-500 NB	1064nm / 500mW	<100kHz	SM	free space
	BrixX [®] 1083-30 NB	1083nm / 30mW	<10MHz	SM PM	FC/APC
	BrixX [®] 1550-40 NB	1550nm / 40mW	<0.02nm	SM PM	FC/APC
Polarisation	>100:1 vertical for single-mode (SM or SM PM) models for Multi-mode (MM) models, polarization depends on laser type				
Long term power stability	<1% / 8h				
RMS Noise 20Hz...10MHz	<0.5% (CW)				
10MHz...500MHz	<0.5% (CW)				
Operation Modes					
Mode 1	CW operation (ACC - Automatic Constant Current)				
Mode 2	CW operation (APC - Automatic Power Control)				
Mode 3	Analogue modulation				
Mode 4	Digital modulation				
Mode 5	Analogue + Digital modulation				
Analogue modulation	>1.5MHz				
Input signal type	0...5V / 1,2kOhm or 0...1V / 50 Ohm (user selectable via software)				
Digital modulation	>1.5MHz				
Input signal type	TTL (2kOhm)				
Laser Enable (electronic shutter)	>500kHz (full ON/OFF)				
Input signal type	TTL (2kOhm)				
Rise- and falltime	Analogue: < 200ns Digital: < 200ns Laser Enable: < 500ns				
Extinction ratio	Analogue: >1000 : 1 Digital: >250:1 Laser Enable: infinite (full ON/OFF)				
Supply voltage	12 ... 24 VDC nominal (11.0 ... 25VDC max.)				
Control interface	RS-232 and USB 2.0				
Dimensions laser head	191 x 65 x 60 mm (l x w x h)				
Options & Accessories	BRIXX.PSU World-wide power supply unit for BrixX series lasers XX.CDRH remote control box with key switch and emission LED for CDRH compliant operation				

Laser Safety classification:

Class 3B
400-700nm:



700-1064nm:



1064-1600nm:

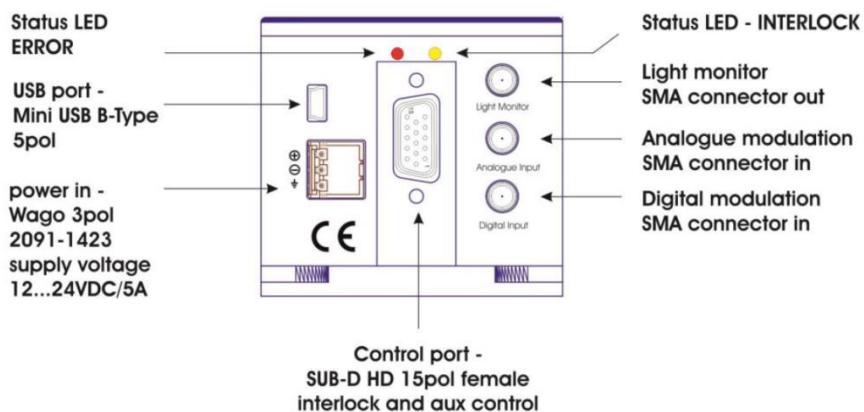


Class 4:

700-1500nm:



Control interface:



Ordering code:

