

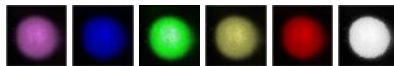
# SIXTUS

## High power 6-channel laser

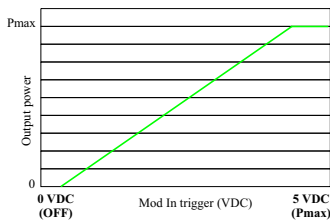
The PEGASUS SIXTUS is the most compact optical engine with up to 6 different wavelengths channels. All channel outputs are combined and coupled into one multimode fiber (singlemode on request) to have a most versatile system for any kind of biotechnical and life science illumination applications.

Depending on specimen, the customer can choose combination of wavelengths in order to achieve maximum excitation efficiency for a large variety of fluorescence molecules with only one device.

**MM fiber coupled version**

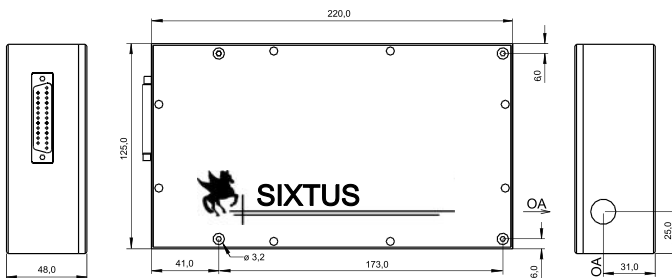


**Power control for each channel via 0 - 5 V**



With optional adapted electronic benchtop driver, the intensity of each color channel can be controlled simultaneously, independently via analogue 0 - 5 VDC trigger signal.

It allows high speed modulation and fast switching between individual laser wavelengths.



**405, 450, 520,  
638, 660, 810 nm**

### Features

- Up to 6 different wavelengths in the VIS/NIR range
- High power version with up to 3 wavelengths (doubled red, green and blue)
- Analog modulation > 200 kHz / channel
- Very compact housing

### Specifications

<b>Available wavelengths</b>	405 nm 450 nm 520 nm 638 nm 660 nm 785 nm 810 nm (others on request)
<b>Power stability</b>	< +/- 2 % (over 1 h)
<b>MM fiber coupling</b>	50, 100, 200, 400, 800 μm
<b>Analog modulation</b>	DC - 200 kHz
<b>Laser head dimension</b>	220 x 125 x 48 mm <sup>3</sup>
<b>Weigh laser head</b>	510 g
<b>Laser class (EN 60825-1)</b>	4

Available wavelengths *	nm	405	450	520	638	660	785	810
<b>Maximum optical power</b>	<b>mW</b>	400	1200	700	500	500	150	1000
<b>Type</b>		Diode	Diode	Diode	Diode	Diode	Diode	Diode
<b>Beam shape</b>		Multimode	Multimode	Multimode	Multimode	Multimode	Multimode	Multimode
<b>Beam diameter (1/e<sup>2</sup>) **</b>	<b>mm</b>	< 3.5 x 4.5	< 3.5 x 4.5	< 3.5 x 4.5	< 3.5 x 4.5	< 3.5 x 4.5	< 3.5 x 4.5	< 3.5 x 4.5
<b>Divergency (full angle) **</b>	<b>mrad</b>	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
<b>Fiber coupling</b>		Multimode 50μm, 100μm, 200μm, 400μm, 800μm / NA 0.22 / SMA fiber connector						
<b>Stability (over 1 h)</b>	<b>%</b>	< +/- 3						
<b>Operation current</b>	<b>A</b>	< 15						
<b>Modulation ***</b>	<b>kHz</b>	> 200 (-3dB)						
<b>Housing dimension</b>	<b>mm<sup>3</sup></b>	220 x 125 x 48						
<b>Cooling</b>		must be attached to external heatsink						
<b>Laserclass</b>		4						

\* Center wavelength  
\*\* Freespace version  
\*\*\* depending on driver (not included)