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For Life Science Applications

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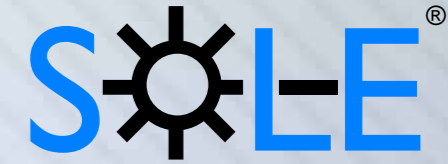
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ISO 9001:2008



Compact laser light engines
with up to 6 wavelengths



Up to 6 wavelengths beam-combined
in one compact housing

26 different wavelengths available

Direct modulation and fast switching between wavelengths

Single-mode, polarization maintaining fiber coupling
with customized fiber outputs

Vibration isolated

USB 2.0 control interface

Windows™ based laser control software included

OEM versions available

SOLE[®] Compact laser light engines

The SOLE[®] laser light engines combine up to six wavelengths in a compact and rugged design. Wavelengths between 375nm and 830nm and optical output powers up to 150mW per laser line are possible. Especially designed for today's demanding applications in biotechnology like confocal microscopy or flow cytometry. High-speed analogue and digital modulation as well as fast switching between the individual wavelengths are realized by Omicron's proprietary DEEPSTAR[®] technology. All SOLE[®] light engines offer single-mode polarization maintaining fiber coupling or free-space light output with high stability.



SOLE-3

Available models: SOLE-3 - 3-Channel light engine with up to 3 wavelengths
SOLE-6 - 6-Channel light engine with up to 6 wavelengths

Available wavelengths and powers (internal laser power):

- 375nm / 20mW
- 395nm / 120mW
- 405nm / 60mW, 120mW, 250mW
- 415nm / 120mW
- 425nm / 120mW
- 445nm / 50mW, 100mW
- 457nm / 25mW, 50mW, 75mW, 100mW
- 460nm / 100mW
- 473nm / 20mW, 80mW
- 488nm / 20mW, 60mW, 80mW, 100mW, 150mW
- 515nm / 25mW, 50mW, 100mW, 150mW *
- 532nm / 25mW, 50mW, 100mW, 150mW *
- 540nm / 25mW, 50mW *
- 561nm / 25mW, 50mW, 75mW, 100mW, 150mW *
- 568nm / 50mW, 75mW, 100mW, 150mW *
- 594nm / 25mW, 50mW, 100mW *
- 638nm / 40mW, 100mW
- 642nm / 140mW
- 660nm / 130mW
- 685nm / 50mW
- 705nm / 40mW
- 730nm / 40mW
- 785nm / 120mW
- 808nm / 140mW
- 830nm / 140mW

*DPSS Lasers

Fibre coupling:	Type:	Single-mode, polarization maintaining or Multi-mode fibres	
	Fibre output:	FC/APC, FC/P, SMA, FCP8 and collimated outputs on customers demand	
	No. of fibre outputs:	1 or 2	
Modulation capabilities:	Diode lasers:	digital modulation:	> 180MHz
		analogue modulation:	> 3MHz
		electronic shutter:	> 300kHz
	DPSS Lasers:	digital modulation:	> 2.5MHz
		analogue modulation:	> 2.5MHz
		electronic shutter:	> 300kHz
	Extinction ratio:	digital modulation:	> 500:1
		analogue modulation:	> 1000:1
		electronic shutter:	> 50dB
	Input signals:	digital modulation:	TTL
		analogue modulation:	0...10V
		electronic shutter:	TTL
Control interface:	Type:	USB2.0 / RS-232	
Laser control software:	Windows [™] based laser control software		
Supply voltage:	Mains:	90...245VAC, 50/60Hz	
Mechanical size:	SOLE-3	19" rack type housing with 2 height units L x W x H: 480mm x 484mm x 88mm (without fiber coupler)	
	SOLE-6	19" rack type housing with 3 height units L x W x H: 530mm x 484mm x 132mm (without fiber coupler)	