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GMP

GENERAL
MICROTECHNOLOGY
& PHOTONICS

SYSTEMS FOR INDUSTRY
RESEARCH
TELECOM & MEDICINE



omicron
LASERAGE

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Stand September 2012

omicron
LASERAGE

SOLE[®]



**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

The 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 300mW 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 light engines offer single-mode polarization maintaining fiber coupling or free-space light output with high stability.



SOLE®-3

SOLE® Compact laser light engines

Available models:	SOLE®-3 - Channel light engine with up to 3 wavelengths SOLE®-6 - Channel light engine with up to 6 wavelengths		
Wavelengths and powers (internal laser power):	<p>375nm / 20mW, 70mW 395nm / 120mW 405nm / 60mW, 120mW, 300mW 415nm / 120mW 425nm / 120mW 445nm / 50mW, 100mW 457nm / 100mW 460nm / 100mW 473nm / 20mW, 80mW, 100mW 488nm / 20mW, 60mW, 80mW, 100mW, 150mW, 200mW 515nm / 25mW, 50mW, 80mW, 100mW 515nm / 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, 150mW 642nm / 140mW 647nm / 140mW 660nm / 130mW 685nm / 50mW 705nm / 40mW 730nm / 40mW 785nm / 120mW 808nm / 140mW 830nm / 140mW</p>		
	*DPSS lasers		
Fibre coupling:	Type:	Single-mode, polarization maintaining or multi-mode fibres	
	Fiber output:	FC/APC, FC/PC, FCP8, SMA and collimated outputs diameter on customers demand	
	No. of fibre outputs:	1 or 2	
	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 interfaces of the laser sources:	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 fibre coupler)	
	SOLE®-6	19" rack type housing with 3 height units L x W x H: 610mm x 484mm x 132mm (without fibre coupler)	

more information: www.omicron-laser.de