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GMP

GENERAL
MICROTECHNOLOGY
& PHOTONICS

SYSTEMS FOR INDUSTRY
RESEARCH
TELECOM & MEDICINE



omiron
LASERAGE

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Stand September 2012

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LASERAGE



LightHUB

Compact Laser Combiners



**Up to 6 wavelengths beam-combined and
efficiently fiber coupled in one compact housing**

26 different wavelengths available

**Single-mode, polarization maintaining
fiber coupling with customizable fiber outputs**

Conductively cooled

Windows™ based laser control software included

Field upgradable

OEM versions available



The LightHUB® compact laser combiner can be equipped with up to six DPSS or diode lasers of different wavelengths in a compact and rugged design. Wavelengths between 375nm and 830nm and optical output powers up to 300mW per laser line are possible. The Compact Laser Combiners can be equipped with polarisation maintaining fiber coupling units to supply the light for applications in biotechnology like confocal microscopy or flow cytometry and many more.

LightHUB Compact Laser Combiners

Available models:	LightHUB®-2 - combines up to 2 laser lines LightHUB®-4 - combines up to 4 laser lines LightHUB®-6 - combines up to 6 laser lines	
Wavelengths and powers (internal laser power):	375nm / 20mW, 70mW 395nm / 120mW 405nm / 60mW, 120mW, 300mW 415nm / 120mW 425nm / 120mW 445nm / 50mW, 100mW 457nm / 100mW 460nm / 100mW 473nm / 20WmW, 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	
Fibre coupling:	Type	Single-mode, (PM) or multi-mode fibers
	Fiber output:	FC/APC, FC/PC, FCP8 or SMA and collimated outputs diameter on customer's demand
Free emission:	Beam diameter:	0.7mm $1/e^2$ (others available on request)
Control interfaces of the laser sources:	Type:	USB2.0 / RS-232 (depends on laser model)
Laser control software:	Windows™ based laser control software	
Supply voltage:	5VDC / 12VDC / 24VDC (depending on laser type)	
Mechanical size:	LightHUB®-2: L x W x H: 159mm x 220mm x 64mm (without fibre coupler) LightHUB®-4: L x W x H: 293mm x 220mm x 64mm (without fibre coupler) LightHUB®-6: L x W x H: 427mm x 220mm x 64mm (without fibre coupler)	

more information: www.omikron-laser.de