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For Life Science Applications

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Compact Laser Combiner



Up to 4 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



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ISO 9001:2008



The LightHUB® compact laser combiner can be equipped with up to four DPSS or diode lasers of different wavelengths in a compact and rugged design. Wavelengths between 375nm and 830nm and optical output powers up to 150mW 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, 250mW 415nm / 120mW 425nm / 120mW 445nm / 50mW, 100mW 457nm / 25mW, 50mW, 75mW, 100mW 460nm / 100mW 473nm / 20mW, 80mW, 100mW 488nm / 20mW, 60mW, 80mW, 100mW, 150mW, 200mW 515nm / 25mW 515nm / 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, 150mW 642nm / 140mW 660nm / 130mW 685nm / 50mW 705nm / 40mW 730nm / 40mW 785nm / 120mW 808nm / 140mW 830nm / 140mW

*DPSS Lasers

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)