



DATASHEET

01.2019

LightHUB+[®]

Plug & Play Laser Light Engines with up to 6 user-upgradable wavelengths



The LightHUB+[®] Plug&Play laser light engines can be equipped with up to six DPSS or diode lasers of different wavelengths in a compact and rugged design. Wavelengths between 375nm and 1550nm and optical output powers up to 300mW per laser line are possible. The LightHUB+ can be upgraded by the end-user from 1...6 wavelengths easily. Pre-assembled upgrade-kits consisting of the laser head, optical combiner block and an interface card can be installed at any time. The fibre output can be equipped with single-mode, polarization-maintaining fibres or multi-mode fibres with various output connectors or collimated beam diameters starting from 0.7mm. Six individual analogue and digital modulation inputs as well as a RS-232 and USB interface allow easy integration input control environments. The system is designed to be both passively or actively cooled. By mounting it on an optical table or a thicker breadboard, passive cooling is possible. If the system is operated in a free-standing desktop use, the optional active cooling unit with temperature controlled fans can be attached underneath.

Dimensions



(l x w x h):
 402 x 402 x 97mm³ (without fibre coupler)
 402 x 402 x 182mm³ (with optional cooling unit)

Weight:
 Approx. 16kg (depending on installed lasers)
 Approx. 34kg (with optional cooling unit)

Control Software



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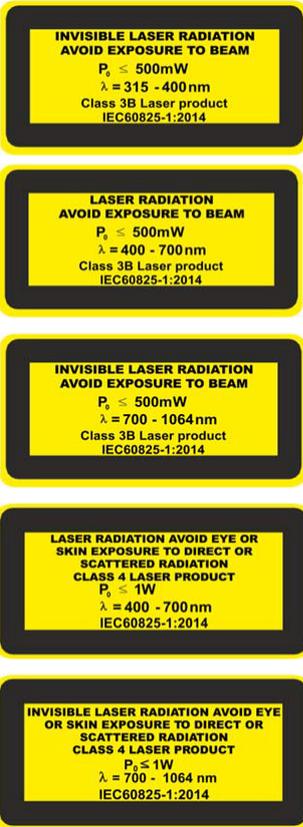
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For more online information:



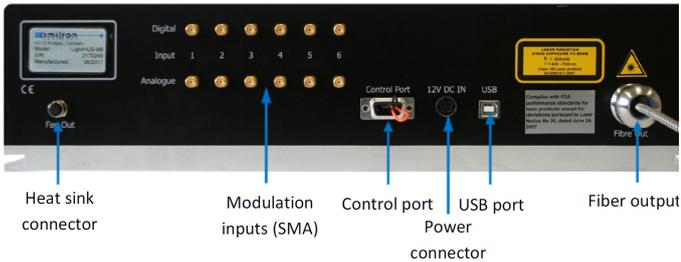
LightHUB+® - Specifications:	
Available models:	LightHUB+ Laser Light Engine
available wavelengths and powers: (internal laser power)	375nm / 20mW, 70mW 395nm / 120mW 405nm / 60mW, 120mW, 300mW 415nm / 120mW 425nm / 120mW 445nm / 50mW, 100mW 457nm / 100mW 460nm / 100mW 473nm / 20mW, 80mW, 100mW, 300mW 488nm / 20mW, 60mW, 80mW, 100mW, 150mW, 200mW 505nm / 80mW 515nm / 25mW, 50mW, 80mW, 100mW, 150mW 532nm / 50mW, 80mW, 100mW, 150mW 552nm / 20mW, 60mW, 80mW, 100mW, 150mW 561nm / 20mW, 50mW, 80mW, 100mW, 150mW 594nm / 60mW, 100mW 633nm / 100mW 638nm / 40mW, 100mW, 150mW, 200mW 642nm / 140mW 647nm / 140mW 660nm / 130mW 685nm / 50mW 705nm / 40mW 730nm / 40mW 785nm / 120mW, 200mW 808nm / 140mW 830nm / 140mW 850nm / 100mW 945nm / 200mW 980nm / 100mW 1030nm / 150mW 1060nm / 150mW 1080nm / 80mW 1310nm / 50mW 1550nm / 100mW Restrictions in some wavelength combinations may apply. Ask for possible combinations
Fibre coupling:	Type: Single-mode, (PM) or Multi-mode fibres Fibre output: FC/APC, FC/PC, FCP8 or SMA and collimated outputs diameters on customer's demand
Modulation Capabilities	Analogue Modulation: up to 1.5MHz Digital Modulation: up to 150kHz (full ON/OFF)
Control interfaces:	Type: USB 2.0 / RS-232 Interlock Key-Switch
Laser control software:	Windows™ based laser control software
Supply voltage:	12VDC or 90-240VAC, 50/60Hz
Available options	LH+.COOL - optional active cooling unit for LightHUB+ XX.CDRH - optional CDRH remote control box
Mechanical size:	L x W x H: 402mm x 402 x 97 mm (without cooling unit) L x W x H: 402mm x 402 x 182 mm (with attached cooling unit)

Laser Safety classification:



Control Interface

Ordering Code



LH+.BASE

LightHUB+ Base Unit incl. 488nm/60mW diode laser and 2m long SM/PM broadband fiber

LH+KITXXX-YYY

Laser upgrade kit for LightHUB+ and LightHUB Ultra systems XXX= wavelength, YYY= laser power

LH+.COOL

Optional cooling unit for Table-Top use of LightHUB+ Light Engines

LH+.SHUTTER

Optional single fail safe shutter module for LightHUB+ Light Engines