



GERMANY

EXCELLENCE IN LASER AND MEDIATECHNOLOGY



LightCube Lasersystems
375nm up to 670nm, 10mW up to 30W
Single Diode up to high integrated Systems

*Diode, DPSS and OPSL Lasersystems
unique - reliable - maintenance free*

Diode, OPSL und DPSS Lasersysteme
einzigartig - zuverlässig - wartungsfrei



VULCAN Industrial Laser
Adjustment and Positioning Systems

*from an easy laser-line up to
complex CAD-drawing-projection*

von der einfachen Hilfslinie bis zur komplexen
CAD-Zeichnungsprojektion



OEM - Electronic - Products
Diode Drivers, TEC Coolers, Scann Amplifiers

*Serial products and customized solutions for easy
implementation*

Serienprodukte und kundenspezifische Lösungen zur
einfachen Integration



Components
Mirrors, Filters, Lenses, Achromates, Aspheres

*Precise optical and mechanical
solutions for easy implementation*

Optische und Mechanische Präzisions - Lösungen zur
einfachen Integration



Service
Gas Ion Laser Refill,
Laserservice, Lasersafety-training
Soft & Hardware training

Gas Ionen Laser Refill
Laserservice, Lasersicherheitsschulungen
Soft & Hardware Schulungen

Certified Quality

DIN ISO 9001 : 2008
Coherent
Jenoptik



Awarded

More than 30 national
and international awards
for products, installations
and shows.



Customized developments
are welcome

NEW WEB SHOP

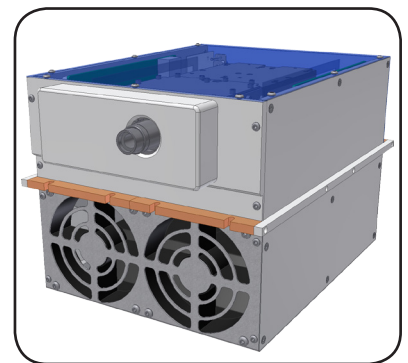
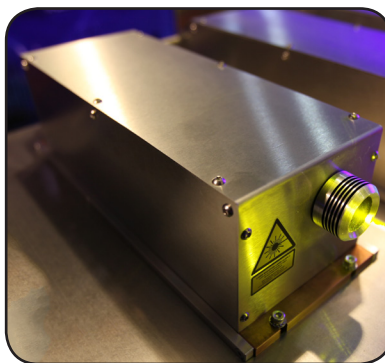
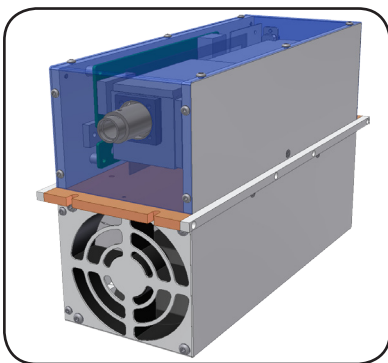
<http://shop.hb-laser.com/>

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LightCube Revolution OPSL modules

Model	Red 639 nm	Orange 607 nm	Yellow 577 nm	Yellow 561 nm	Green 530 nm	Blue 488 nm	Blue 480 nm	Blue 460 nm
Wavelength (nm)	639 ± 1	607 ± 1	577 ± 3	561 ± 3	530 ± 3	488 ± 3	480 ± 3	460 ± 3
Power (W)	1W; 1.5W; 2W; 2.5W; 5W	1.25W	3W; 5W; 6W	2W	3W; 5W; 8W; 10W	3W; 5W	1W; 2W; 4W	1W; 2W
Collimated Version								
Beam Waist Diameter (1/e ² , mm)	1.0				2.3			
Beam Divergence (1/e ² , mrad)	1.5				1.5			
Beam Waist Location (m)	0.25				0.25			
M2								
Horizontal	<1.5				<6			
Vertical	<1.5				<4			
Spatial Mode	Multimode							
Bandwidth (nm)	<0.5							
Pointing Stability (µrad/C°)	<30							
„Noise 10 Hz to 10 MHz (% rms) 10 Hz to 5 kHz (% peak-to-peak)“	<1				<10			
Polarization Ratio	>100:1, vertical							
Modulation	50 kHz analog 0-5 V							
Input Voltage	48V / DC optional 90-240 V / AC							
Cooling	Air, TEC stabilized (water cooled systems available on request)							
Dimensions L x W x H	230 x 100 x 170 mm (5W red 250 x 200 x 170 mm)							

Fiber coupled systems available on request
Dual power and multi-wavelength systems available on request



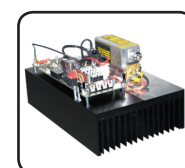
High integrated system
No external driver or powersupply
Light and current mode operation
Intelligent remote bus system for external control
Easy to integrate

Applications

Medical Systems
Bio photonics
Forensic
Laser pumping
Entertainment
Science
Lab application
Spectroscopy



Intelligent remote bus system controls up to 200 LC-systems with one unit.



OEM integration modules for customized solutions are available.

HB-LASER



SYSTEMS MEDIATECHNOLOGY ENGINEERING SERVICE