





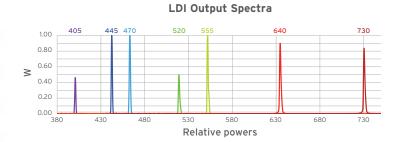
HIGH-PERFORMANCE LASER DIODE ILLUMINATOR

The LDI is a multiline, solid-state laser illuminator offering up to 1000mW of output power via a multimode fiber at the price of a low power LED light engine. With feedback controlled output stability and up to a 100:1 linear dynamic range, the LDI is the ideal light source for a wide range of applications including spinning disk confocal microscopy, structured illumination microscopy, FRAP, photoactivation/photoconversion, and PALM/STORM.

The LDI offers the highest price to performance ratio of any laser source available on the market today.

LASER LINES AVAILABLE

Laser Line (nm)	Power (mW)		
	Out of fiber (400 µm 0.22 NA)		
405	450		
445	1000		
470	1000		
520	500		
555	1000		
640	900		
730	850		



FEATURES AND BENEFITS

Shorter exposures
Faster imaging
Faster activation times in optogenetics and photoactivation experiments
Faster bleaching times in FRAP experiments
Quantitative imaging, ideally suited for ratiometric imaging
More repeatable optogenetics experiments
Ability to turn power down when needed and maintain stability and quantitative imaging
Covers most of the standard fluorescence probes
Easy to use and maintain

SPECIFICATIONS

Source Type	Laser Diodes									
Lifetime	20,000 hrs - 2 year warranty									
Wavelength (nm)	405	445	470	520	555	640	730			
Width (nm)	0.6	2-3	2-3	4-6	0.6	0.8-1.5	2-3			
CWL Range	398-406	440-446	465-470	520-522	553-555	632-643	723-737			
Stability (rms)*	<2%	<2%	<2%	<2%	<2%	<2%	<2%			
Optical Power Min (mW)	500	1000	1000	500	1000	900	850			
Rise*	<10 µs	<10 µs	<10 µs	<10 µs	<1 ms	<10 µs	<10 μs			
Max On/Off Frequency (Hz)	>1000	>1000	>1000	>1000	200	>1000	>1000			
Output Options	400 μm - 1.5 mm optical fiber**									
Control Options	TTL (>2.3 V) Analog (0-5 V) USB-DSP (virtual COM port) - SDK available upon request									
Safety	Interlocked housing Safety interlock Key interlock									
Dimensions	12.5" x 9.2" x 5.75"									
Weight	~9 lbs									
Operating Temperature	10-32°C									
Storage Temperature	-18-50°C									
Humidity	<80% non-condensing									
Voltage	90-220 V AC, 50-60 Hz									
Fuse	None									

^{*}for power settings >20%, to achieve 50% of maximum power

This product is subject to FCC rules. Delivery is contingent upon demonstrated compliance with the applicable equipment authorization and technical requirements.

Applications

Spinning Disk Confocal Microscopy with Crest X-Light V2

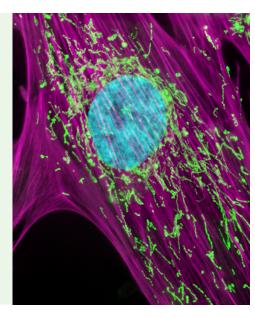
Super Resolution SIM Imaging with Crest VCS or Live SR

PALM/STORM

Optogenetics with DLPs or Multiport Illuminator

Photoactivation/Photoconversion/FRAP with RAPP GEO

FRAP with SLM or Multiport Illuminator



DANGER - LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION CLASS 4 LASER PRODUCT

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^{**}Smaller fiber available with loss of power