



# LDI

## High-Performance Laser Diode Illuminators

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.

### 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



We now offer a full range of LDI products, including laser lines at 488, 577 and into the NIR

|           | 405nm | 445nm  | 470nm  | 488nm  | 520nm | 528nm | INTERCHANGEABLE |       | 640nm | 730nm |
|-----------|-------|--------|--------|--------|-------|-------|-----------------|-------|-------|-------|
|           |       |        |        |        |       |       | 555nm           | 577nm |       |       |
| LDI-7     | 300mW | 1000mW | 1000mW |        | 500mW | 500mW | 1000mW          | 800mW | 450mW |       |
| LDI-6     | 300mW | 1000mW | 1000mW |        | 500mW | 500mW |                 |       | 450mW |       |
| LDI-NIR   | 500mW | 1000mW | 1000mW |        | 500mW |       | 1000mW          | 800mW | 900mW | 850mW |
| LDI-7-488 | 300mW | 1000mW |        | 1000mW | 500mW | 500mW | 1000mW          | 800mW | 450mW |       |
| LDI-PRIME | 300mW |        |        | 1000mW |       |       | 1000mW          | 800mW | 450mW |       |

89° NORTH®

**LDI**

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### FEATURES AND BENEFITS

#### High output power

- Shorter exposures
- Faster imaging
- Faster activation times in optogenetics and photoactivation experiments
- Faster bleaching times in FRAP experiments

#### Feedback-controlled optical stability

- Quantitative imaging, ideally suited for ratiometric imaging
- More repeatable optogenetics experiments

#### Up to 100:1 linear dynamic range

- Ability to turn power down when needed and maintain stability and quantitative imaging
- Up to 7 lines covers most of the standard fluorescence probes
- No user alignment
- Easy to use and maintain

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

