## MACROLED Light Source for

DATASHEET

# Large emitter LED light source for macro-imaging





For cardiac optical mapping and slice imaging with macro objectives or macro camera lenses the (much abused) laws of physics allow us to make use of larger emitters requiring more than the 5A of drive current provided by the OptoLED. Rather than continuing to tweak and periodically blow up the OptoLED power supplies we felt that it was sensible to launch a dedicated product.

The MacroLED can power twin heads incorporating two 10A LED chips, whilst maintaining the fast switching and stability of the OptoLED. In addition to the epifluorescence mounts used with our other LED products the MacroLED heads can be supplied with mounting stands for direct illumination.

#### **APPLICATIONS**

- Macro fluorescence imaging/optical mapping
- Multi-wavelength fluorescence microscopy
- Cardiac imaging



#### **KEY BENEFITS**

- High intensity
- Near perfect stability
- Instantaneous vibration-free switching
- Long-life (should never need replacing)
- Variable intensity no need for ND filters



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### **ILLUMINATION SYSTEMS**

### INTENSITY, STABILITY AND FLEXIBILITY

DATASHEET



#### ○ MultiLine LaserBank

Modular and versatile laser launch system allows for use of up to six solid-state lasers from multiple manufacturers. Ideal for TIRF, spinning disk confocal, FRAP and optogenetic applications or any combination of these with multiple outlets via single or multi-mode fibres. Provides the convenience of a custom, turnkey system.

#### TriLine Laser Bank

The TriLine shares much of the modularity and flexibility of the MultiLine, but in a simpler and more compact package (up to 3 lasers). The design offers the flexibility to configure output ports via single or multi-mode fibres (or free space on request) for TIRF, FRAP, photolysis, spinning disk confocal, optogenetics and other research applications.



Easy to use and affordable LED transmitted light source for phase imaging on a variety of inverted microscopes. Supports PhL, Ph1 and Ph2 phase objectives, or can be used as a standard brightfield transmitted light source. Triggerable, with an extended working distance ideal for use with micromanipulators.



#### OptoLED

The OptoLED is our flagship system for LED illumination. Dual channel LED controller with ultra-high stability and "instantaneous" (sub-microsecond) vibration-free TTL switching and analogue intensity modulation.



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Compact and affordable single LED white light illuminator for brightfield, phase contrast or DIC imaging, available with a wide range of microscope adapters. Convenient for any application requiring a simple LED illuminator.



#### OptoScan

The only monochromator that provides submillisecond control of both centre wavelength and bandwidth. Provides unmatched versatility for fluorescence measurements, photometry and optical scanning. A lab workhorse!



#### **MultiPort Illumination Couplings**

Easily and efficiently couples multiple light sources (light guide, laser or LED) into a single epi-illumination path. Well suited for optogenetics, photolysis and photoactivation. Can include independent field stops or pinholes.



#### OptoTIRF V2

The OptoTIRF is a compact and powerful, yet inexpensive, motorised TIRF illuminator designed to fit onto any research-grade inverted microscope. It gives the researcher intuitive and dynamic access to the entire back aperture of the objective with joystick or software control and simple storage and recall of preset positions



#### FuraLED

Compact and optimised LED illuminator for 340nm / 380nm ratiometric Fura-2 fluorescence imaging with intergrated filters. Fast switching with photodiode feeback stability when used in conjuncation with our OptoLED dual channel LED controller. Couples to a variety of upright / inverted microscopes or macroscopes.

