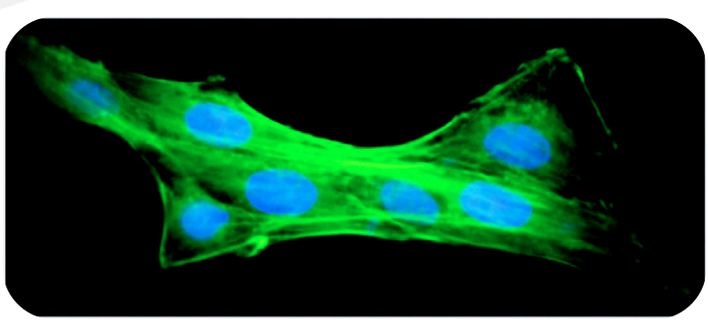
MONOLED Light Source

Compact single-channel illuminator

DATASHEET

Low-cost microscope LED illuminator for transmitted light and simple fluorescence applications.
The MonoLED is designed with simplicity in mind

Following the success of our OptoLED range we identified the demand for an affordable single-channel illuminator which would "just work" for transmitted light and simple fluorescence illumination. Rather than compromising performance we opted to support powerful (3A) devices (for epi-fluorescence illumination) and a full range of microscope couplings. Unlike our other illuminators, which use a modular MultiPort coupling system, the MonoLED is supplied complete with a condenser and mount for your chosen microscope



APPLICATIONS

- Brightfield
- Phase contrast
- DIC
- Single wavelength fluorescence viewing

KEY BENEFITS

- Manual, digital and analogue control (USB on request)
- Incorporates filter to avoid phosphor artefact
- Powerful 3A emitter (epi-fluorescence only)
- Compact, affordable, turn-key illuminator
- Environmentally friendly halogen lamp replacement
- Wide range of microscope adapters for research and clinical 'scopes

CAIRN RESEARCH

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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.

Aura Pro

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.

MonoLED

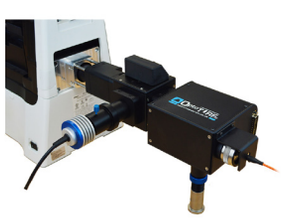
Compact and affordable single LED white light illuminator for brightfield, phase contrast or DIC imaging, available with a wide range of microscope adapters. Convenient for any application requiring a simple LED illuminator.

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!

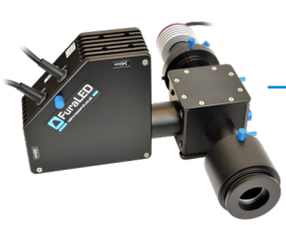
MultiPort Illumination Couplings

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 conjuncetion with our OptoLED dual channel LED controller. Couples to a variety of upright / inverted microscopes or macroscopes.

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