LumenLED Illuminator

PRIOR
Scientific

Advanced Illumination for Fluorescence Microscopy

Features

The use of LED's as an excitation source for fluorescence microscopy offers a range of advantages over conventional illumination systems. The LumenLED system from Prior Scientific goes even further with the introduction of new functionality which brings the technology into mainstream fluorescence microscopy. LumenLED offers two modes of operation which allows the LED's to be optimized for specific applications. In Constant Light Mode, a photodiode is used to provide a closed loop feedback mechanism to ensure short and long term stability of illumination intensity, essential for quantitative experiments. For more general imaging applications, Constant Current Mode is available to assure maximum illumination intensity.

The LumenLED is a modular system based around a two position or four position LED combiner. To maximize light efficiency the combiner is directly coupled to the fluorescence port of the microscope. The system can be mounted on to most of the major manufacturers inverted or upright microscopes using the appropriate adapters. Ten LED modules* are available and can be easily exchanged in the combiner. The ability to add excitation filters to each LED module ensures the wavelengths are optimized for the current application.

* Additional wavelengths to be added.

BSI REGISTERED
ISO 9001:2008
FM 83854

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LumenLED Illuminator

- Up to four LEDs can be used simultaneously
- Precise intensity control in 1% increments
- Up to 10 LEDs available (additional wavelengths to be added) and are easily exchangeable in a matter of seconds
- Integrated closed loop optical feedback system for highest possible stability
- Adapters to fit on to all of the major microscope manufacturers

Ordering Information for Controllers

Part Number	Description
V31LD2NA	ProScan III controller for 2 LED's
V31LD4NA	ProScan III controller for 4 LED's

Ordering Information for Combiners

Part Number	Description
LD200	LED combiner to accomodate 2 LED's and a suitable dichroic.
LD400	LED combiner to accomodate 4 LED's and 3 suitable dichroics.

Ordering Information for Adapters

Part Number	Description
HF554	Adapter for Olympus Microscopes
HF510	Adapter for Zeiss Microscopes
HF500	Adapter for Leica Microscopes
HF258	Adapter for Nikon Microscopes

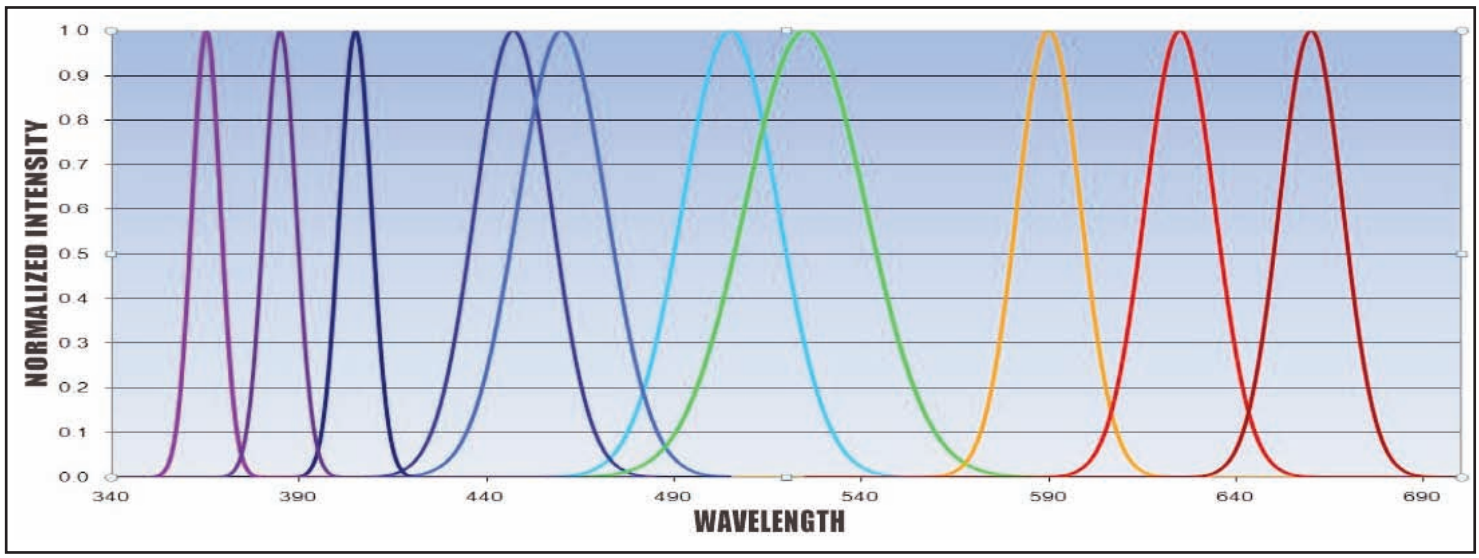
Ordering Information for LED's

Part Number	Description
LED365	Single LED unit for 365nm
LED385	Single LED unit for 385nm
LED405	Single LED unit for 405nm
LED447	Single LED unit for 447nm
LED460	Single LED unit for 460nm
LED505	Single LED unit for 505nm
LED525	Single LED unit for 525nm
LED590	Single LED unit for 590nm
LED625	Single LED unit for 625nm
LED660	Single LED unit for 660nm

Ordering Information for Dichroics

Part Number	Description
LDD410	Long bandpass dichroic filter 410nm
LDD495	Long bandpass dichroic filter 495nm
LDD552	Long bandpass dichroic filter 552nm
LDD593	Long bandpass dichroic filter 593nm

LUMENLED SPECTRAL OUTPUT



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