

Lumen 100-LED

LED Illuminator for Fluorescence Microscopy



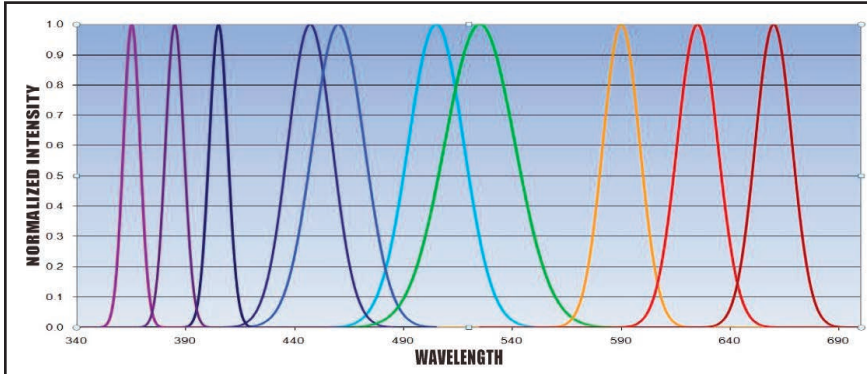
The new Lumen 100-LED illuminator provides advanced, high quality illumination for a wide range of fluorescence microscopy applications. A wide range of adaptors are available to connect the L100-LED to most upright and inverted microscopes. A broad array of LEDs covering wavelengths throughout the visible spectrum are available and are suitable for the majority of fluorophores used in fluorescence applications. A combiner is also available if two LEDs need to be used simultaneously. Excitation filters can be added to LEDs to further optimize the bandwidth for your specific application. Unlike traditional methods of illumination, bulb replacement and bulb alignment are no longer required for imaging and the unit offers increased energy efficiency over other modes of illumination by switching on and off instantly without the need for a warming up or cooling down period. The Lumen 100-LED is vibration free which allows for more accurate data capture and with minimal heat production the illuminator preserves the condition of valuable specimens.

General Specifications

- Precise intensity control in 1% increments
- Up to 11 LED's available (additional wavelengths to be added)
- Adaptors to fit all major microscope manufacturers
- Long lifetime (25,000 operating hours)
- Increased energy efficiency
- Instant On/Off control
- Direct coupling to fluorescence port to maximize light efficiency
- Silent operation
- No Mercury
- No bulb replacement
- No alignment necessary
- USB and TTL control for OEM integration

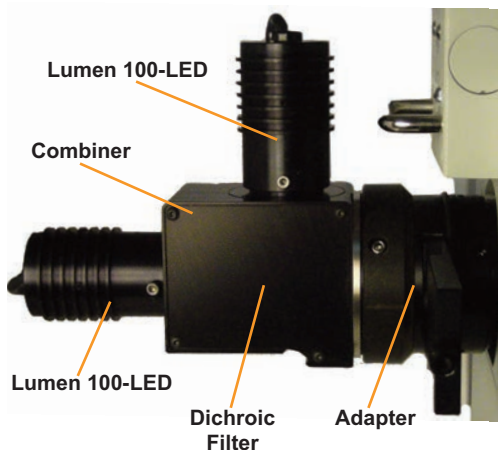
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Typical Lumen 100-LED Spectral Output



Eleven different LEDs are available. The 10 LEDs above each provide a narrow spectrum of light for specific fluorescent purposes. A white light LED is also available, giving a broad spectrum of light.

Lumen 100-LED Dual Output Configuration



By using the combiner and a dichroic filter (image to left) two Lumen 100-LED systems (controller and LED unit) can be combined to allow both LED units to be used simultaneously; for when multiple wavelengths are required.

Part Number Information

Part Number Configuration Instructions:

L100 XXX XX

LED Model

Wavelength Model

365 = Single LED unit for 365nm
 385 = Single LED unit for 385nm
 405 = Single LED unit for 405nm
 447 = Single LED unit for 447nm
 460 = Single LED unit for 460nm
 505 = Single LED unit for 505nm
 525 = Single LED unit for 525nm
 550 = Single LED unit for 550nm
 590 = Single LED unit for 590nm
 625 = Single LED unit for 625nm
 660 = Single LED unit for 660nm

Microscope Adapters

LC = Adapter for Leica microscopes
 NI = Adapter for Nikon microscopes
 OL = Adapter for Olympus microscopes
 ZS = Adapter for Zeiss microscopes

Example Part Number: L100385NI
 The part number L100385NI would be a Lumen 100-LED with a 385 nanometer LED for a Nikon microscope.

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