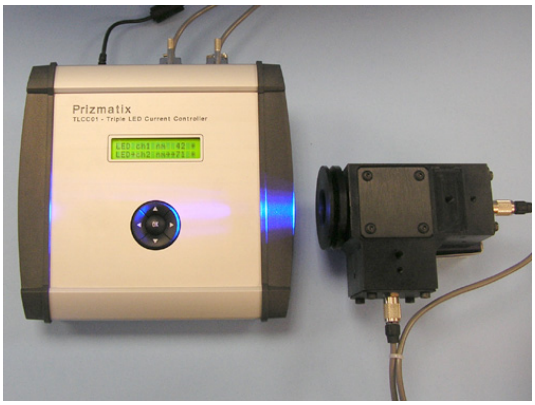
Prizmatix

Dual-Microscope-LED

High Power LED Dual Wavelength Light Source for Fluorescence Microscopy

Introduction



The new compact Dual-Microscope-LED is a High Power LED light source for upright and inverted fluorescence microscopes. The High Power Dual-LED light source module is an effective replacement of Hg lamps and Xenon lamps in many imaging applications, such as fluorescence microscopy. The rigid module comprises two collimated high power LED and the dichroic mirror combiner.

The Dual-Microscope-LED can be operated by either Dual-LED-Current-Controller DLCC-1 or by Triple-LED-Current-Controller TLCC-1.

The TLCC-1 driver can drive multiple High Power LEDs in continuous or pulsed mode. The TLCC-1 unit comprises a microcontroller that enables easy connection of the system to a computer via the USB port. The system comes with Windows software for controlling of the Dual-Microscope-LED from a PC. The system can be also controlled by sending a standard commands from VBA applications. The TLCC-1 also equipped with external TTL trigger inputs for each channel that enable external triggering of the light source.

Currently the Dual-Microscope-LED are available at following wavelengths: 365 nm, 385 nm, 390 nm, 395 nm, 400 nm, 405 nm, 410 nm, 415 nm, 420 nm, 425 nm, 430 nm, 435 nm, 440 nm, 445 nm, 455 nm, 460 nm, 470 nm, 480 nm, 500 nm, 515 nm, 535 nm, 540 nm, 595 nm, 630 nm and white.

Features

- High Power LED at numerous wavelengths.
- Each LED has separate precise control of power. No ND filters required.
- Instant ON/OFF. No shutters required.
- Long life. No lamp replacement required.
- Fast triggering in micro-sec via TTL external input.
- No Speckle
- No excessive heat and vibrations –no moving parts
- Low cost of ownership

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Applications

- Fluorescence Microscopy and Imaging
- Photolysis of caged compounds
- NADH, Quantum Dots, BFP, DAPI, Fura and Hoechst stain excitation

Specifications

Peak Wavelengths:

High power LEDs at two different wavelengths from the list: 365 nm, 385 nm, 390 nm, 395 nm, 400 nm, 405 nm, 410 nm, 415 nm, 420 nm, 425 nm, 430 nm, 435 nm, 440 nm, 445 nm, 455 nm, 460 nm, 470 nm, 480 nm, 500 nm, 515 nm, 535 nm, 540 nm, 595 nm, 630 nm and white.

Dimensions:

Dual-LED head:
100mm x 80mm x 50mm without the microscope adaptor and other extrusions

Electrical Specifications:

TLCC1 Current Controller:
Input: 24VDC 1A

Power Adaptor:
Input: 100-240VAC 1.0A 47-63Hz
Output: 22-27V 1.1A 25Wmax

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