

MICROSCOPY



Prizmatix

UHP-M UV+Visible Dual LED Light Engine

UV + Visible Dual-LED Light Engine for Fluorescence Microscopy

Economical Two Channel Light Source for fluorescence applications. Replaces Mercury, Xenon and other traditional lamps.

- Uniform and intense illumination over the entire FOV
- Ultra-High Power single emitter White & UV LEDs. No LED arrays
- Long life. No more bulb changes
- Instant On – Instant Off with fast TTL pulsing. No shutter needed
- Direct mount adapters for Olympus, Nikon, Zeiss and Leica
- Independent control of UV & visible LEDs via convenient digital console (optional)
- Ultra-Low Optical Noise Option for delicate measurements and high speed imaging
- Vibration free, no moving parts
- Independently adjustable focus for UV and White LEDs
- Ephys friendly with optically isolated TTL and analog inputs
- Computer control via µManager, LabVIEW, MATLAB etc. via optional USB interface
- UV LED – Your choice of 365, 385 or 405nm LED
- Compatible with Prizmatix Optiblocks™ modules e.g. light guide, filter wheel and more



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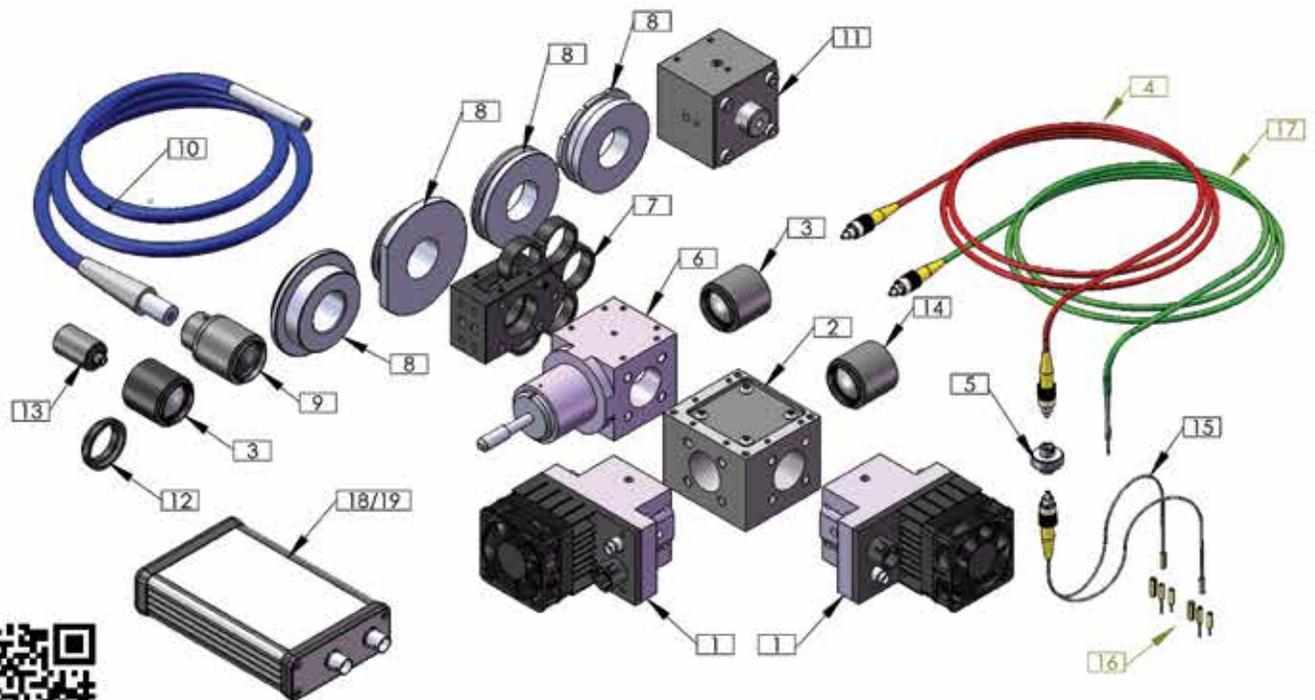
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LED Light Sources and Optical Systems

Optogenetics Toolbox for In-Vitro Applications



1	Ultra High Power LED	Modular ultra bright UHP-Mic-LEDs - Excellent light sources for fiberoptic and epi-fluorescence optogenetics
2	Beam Combiner	Combines several LEDs into one output beam using a dichroic mirror
3	Fiber Coupler Adaptor	Couples an optical fiber to LED: SMA or FC connectors
4	Fiber Patch Cord	Polymer / silica optical fiber (single or multiple branches), SMA or FC connectors
5	Rotary-Joint	Low friction fiber optic Rotary Joint for in-vivo optogenetics with smallest mammals
6	Beam Switcher	Changes direction of beam output (e.g. microscope to fiber)
7	Filter Wheel	Takes up to six 1" filters
8	Microscope Adaptors	Adaptors for epi-fluorescence ports of Nikon/Olympus/Zeiss/Leica microscopes
9	LLG-A	Couples Liquid Light Guide to the LED system
10	LLG-3 / LLG-5	Liquid Light Guide: 3mm or 5mm core
11	LLG-XYZ Collimator	Collimates Light Guide beam to epi- fluorescence port of a microscope
12	C-Mount Adaptor	Used to mount LED on camera port of a microscope
13	Fiberoptic Collimator	Specially designed to collimate high NA optical fibers
14	Reference Photodiode	Monitors LED system power output
15	Optogenetics-Fiber (in-vivo)	For in-vivo applications , single or bilateral dual fiber
16	Implantable Cannulae	Ferrules diameters: 2.5mm and lightweight 1.25mm for smaller animals as mice
17	Optogenetics-Fiber-200	Fiber for in-vitro applications: bare fiber protruding from thin stainless steel tubing
18	USB-TTL Interface	Controls Prizmatix LEDs from imaging software (e.g. microManager) via USB
19	Pulser	TTL pulse train generator featuring simple PC software for pulse programming