

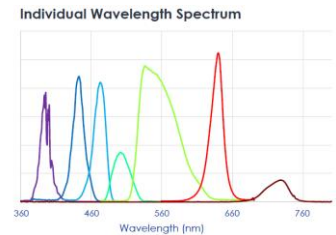
IMAGING AND PHOTONICS FOR MICROSCOPY

LED Light Source for Fluorescence Microscope Niji - BlueBox Optics

Niji-BlueBox multichannel LED Light Source: 7 + 1 aligned UV-VIS-NIR channels
390, 440, 470, 500, 550 (broadband), 630, 730



- Mercury free !!
- Filter holders for excitation ([Alluxa optical filters](#) available)
- Hardware compatible with Zeiss, Nikon, Leica, Olympus.
- Compatible with third-party softwares (Micromanager, Metamorph, NIS Elements, etc.)
- High and stable power (90-550mW per channel)
- Independent channel control (ON/OFF, intensity), USB, TTL
- Channels exchangeable by the user (buy some channels firstly and incorporate the others by yourself later on)



Components



High performance Optical Filters

- Fluorescence filter Sets (excitation + emission + dichroic)
- Longpass dichroic filters
- Bandpass and ultra-narrow bandpass filters (down to 0.1 nm FWHM)
- Multi-band filters
- Notch filters



Motorized positioning systems

- XY microscope stages (plates)
- High precision micromanipulators
- Motorized filter wheels
- Motorized upright/inverted microscopes (customized)

Breadboards and Optical Tables

passive or semi-active supports, customized designs



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UV-VIS-NIR Scientific Cameras

sCMOS cameras (pco.panda & pco.edge)

Excellent combination of high resolution, QE, low noise and dynamic range.

NEW back illuminated (bi) sensors with QE up to 95%

- [pco.panda](#): passive cooling, compact models
- [pco.edge](#): active cooled, up to 26MP, global/rolling shutter, 60 s int. time

FLIM systems (pco.flim)

FLIM Camera + excitation laser source

1008x1008px, up to 45 double fps, frequency domain

100 ps to 100 μ s lifetimes measureable

Intensified cameras

1 or 4 channels MCP image intensifier

Shutter up to 4 ns

General purpose cost-effective cameras

Good agreement between quality/price

C Mount; USB 3, color/monochrome, models for adapting to the eyepiece



IMAGINGSOURCE®
TECHNOLOGY BASED ON STANDARDS



DPSS and diode lasers (UV-VIS-NIR)

CW Low-noise and stable lasers

Power: mW – W

Versions: TEM00, Single Longitudinal Mode (SLM), high power

Options: power control, analogue and TTL modulation, ultra-stable, fiber/free space output, clean up filters



Oxxius
Simply Light

Laser Engines /Multichannel laser combiners

Mainframe with up to 7 lasers

Aligned lasers, one control, lasers controllable independently

Free space/fiber output (or both), up to 4 different output



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