

## Equipment for Fiber Optic Photometry

### A. TECHNICAL PARAMETERS OR FUNCTIONS:

Lp.	Parameters:	
1.	Specification	<p>Complete new or used setup for video-tracking of mice behavior with simultaneous non-invasive, chronic imaging of genetically encoded fluorescent sensors in cortical brain cells, to be employed in parallel in in two independent samples, consist the following parts:</p> <ol style="list-style-type: none"> <li>1. Data acquisition unit to synchronize the output control and the acquisition of the input data, with software for automated signal processing, including normalization of the fluorescent signal to autofluorescence;</li> <li>2. LED Driver, 2ch which in stand-alone mode allows cw operation and external analog modulation through an input BNC connector for each channel. For each channel also a current monitoring BNC output allowing data acquisition or triggering of other devices;</li> <li>3. Connectorized Single LED, 420 nm</li> <li>4. Connectorized Single LED, 405 nm</li> <li>5. Connectorized Single LED, 465 nm</li> <li>6. Optical Breadboard for Connectorized LED to mount systems including two Connectorized LEDs</li> <li>7. Fluorescence MiniCube with 4 ports for excitation (405 nm) and emission (460-490 nm and 500-550 nm) filters, equipped with PMT adapter;</li> <li>8. Fluorescence MiniCube with 4 ports FRET for excitation (420-445 nm) and emission (460-500 nm and 528-556 nm) filters, equipped with 2 PMT adapters;</li> <li>9. Two photoreceiver modules consisting of PMT, low-power consumption high-voltage power supply circuit and a low noise amplifier (matching the standard sensitivity of Hamamatsu H10722-20), both with power supply;</li> <li>10. Two fiberoptic rotary joints optimized for fiber photometry, with holders</li> <li>11. Two attenuator fiberoptic patchcords</li> <li>12. Two branching fiberoptic patchcords with attenuator T5%</li> <li>13. Mono fiberoptic patchcords with low autofluorescence, to connect LEDa, MiniCubes, detectors, Rotary joint and samples;</li> <li>14. Behavioral Tracking Camera.</li> </ol>
3.	Manuals:	In English or Polish - printed or electronic version.

Lp	OTHERS
.	<ol style="list-style-type: none"> <li>1. Delivery time: max. 4 weeks</li> <li>2. We allow the delivery of new or used (up to 5 years) equipment.</li> </ol>