

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"> 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; 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; 3. Connectorized Single LED, 420 nm 4. Connectorized Single LED, 405 nm 5. Connectorized Single LED, 465 nm 6. Optical Breadboard for Connectorized LED to mount systems including two Connectorized LEDs 7. Fluorescence MiniCube with 4 ports for excitation (405 nm) and emission (460-490 nm and 500-550 nm) filters, equipped with PMT adapter; 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; 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; 10. Two fiberoptic rotary joints optimized for fiber photometry, with holders 11. Two attenuator fiberoptic patchcords 12. Two branching fiberoptic patchcords with attenuator T5% 13. Mono fiberoptic patchcords with low autofluorescence, to connect LEDa, MiniCubes, detectors, Rotary joint and samples; 14. Behavioral Tracking Camera.
3.	Manuals:	In English or Polish - printed or electronic version.

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