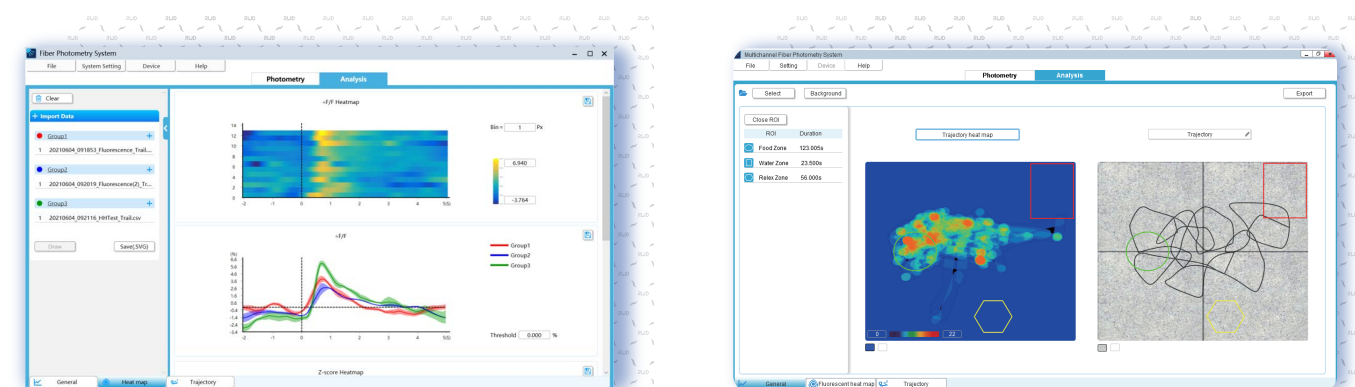




- Support 10 kinds of manual marking and automatic marking, and you can customize shortcut keys, names and colors.
- Different ROI regions can be set and named during behavioral video collection, and various behavioral analyses can be performed later.



- The results can be easily saved and exported to DetaF/F,Z-score and Peri-event statistics. Information in the image can be freely edited by saving the image as editable SVG format.
- Motion fitted, baseline fitted, smoothing fitted for data preprocessing. Comparison between groups can be used to directly compare the data of no less than 3 groups.



RWD Life Science Co.,Ltd

Add: 19-20/F, Building 7A, Shenzhen International Innovation Valley, Dashi 1 Road, Nanshan District, Shenzhen, Guangdong, P.R. China E-mail: rwd@rwdstco.com

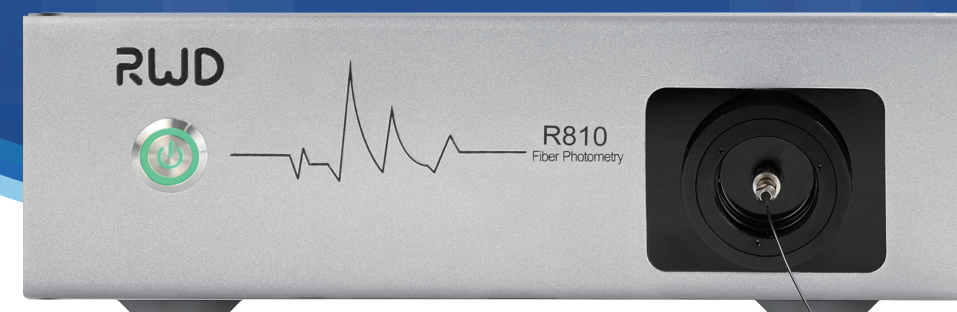
RWD Life Science Inc.

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RWD R180 Dual Color Multichannel Fiber Photometry System- Single page-V1.0-2021-01-14-EN

RWD

R810 Dual Color Multichannel Fiber Photometry System



Product Introduction

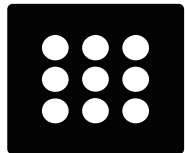
The fiber photometry system records changes in the fluorescence intensity of neurons in a specific brain area to characterize changes in neuronal population activity. In the study of neural circuits, the optical fiber recording system can perform long-term stable monitoring of the neurons in the group of freely moving animals, and then explore the correlation between neuronal activity and animal behavior.

R810 Dual Color Multichannel Fiber Photometry System has two excitation light sources, 410nm and 470nm, of which the unique 410nm can be used as a background signal to ensure effective acquisition of real fluorescence data. It can collect data of no less than 9 channels at the same time, suitable for simultaneous recording of multiple brain regions or multiple animals.

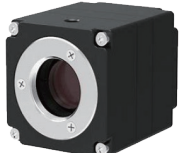
R810 Dual Color Multichannel Fiber Photometry System



Hardware



- Supports up to 9 channels of simultaneous acquisition, suitable for simultaneous recording of multiple nerve nuclei.



- Ultra-high sensitivity scientific research-grade CMOS camera, with higher quantum conversion efficiency, and the acquisition frequency can reach 300fps

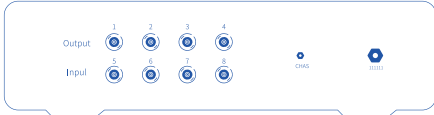


410nm LED



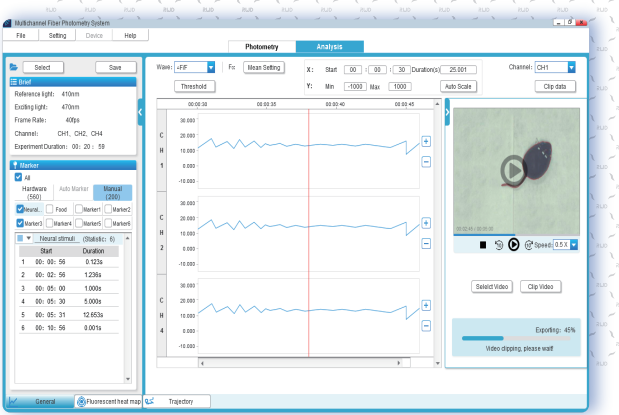
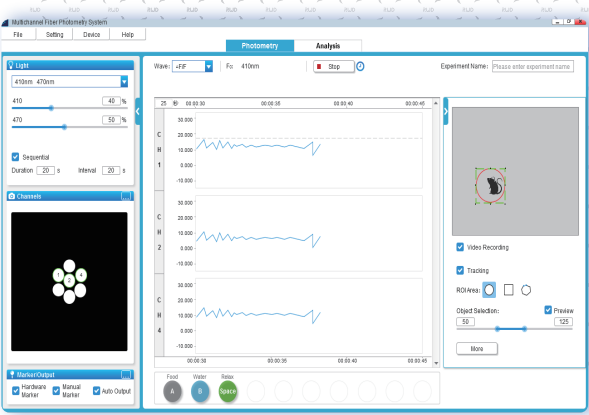
470nm LED

- Two kinds of excitation light sources (410/470nm), 410nm light source as the reference light source, 470nm light source excites GCaMP, effectively removes motion artifacts, and obtains real fluorescent signals.

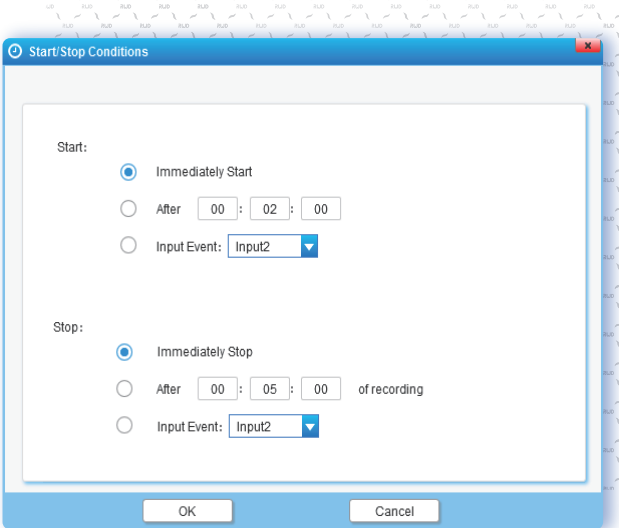
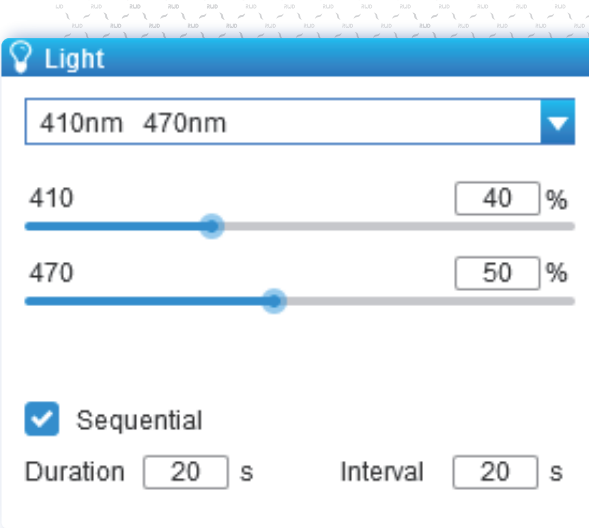


- 4 Input ports, support a variety of external signal input and automatic marking, 4 Output ports, support outputting TTL signals to trigger external third-party equipment.

Software



- Professional software, fluorescence data and animal behavior video can be collected and analyzed simultaneously.
- Real time $\Delta F/F$ data to check scale of signal changes during acquisition.



- The excitation light output mode can be customized to suit different experimental application scenarios.
- The software supports the setting of multiple start and end conditions.

