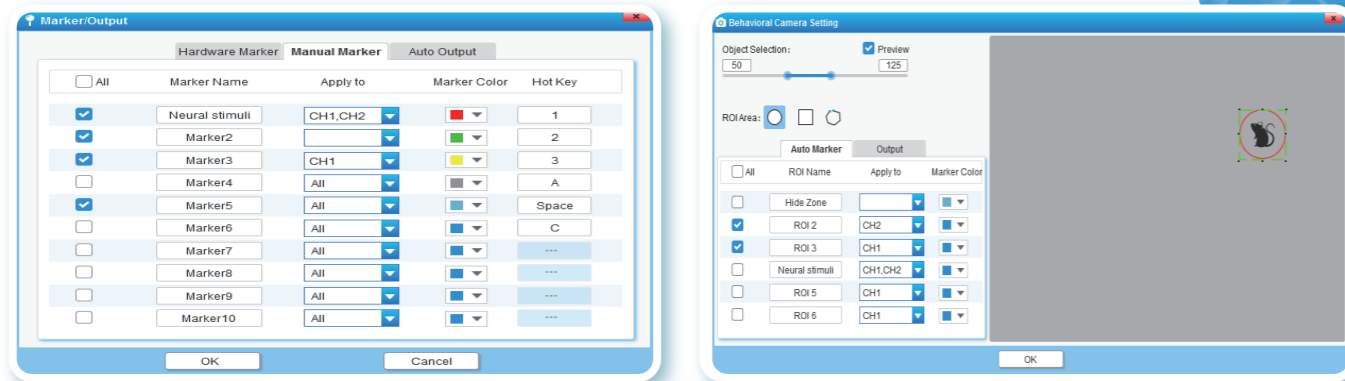


# RWD

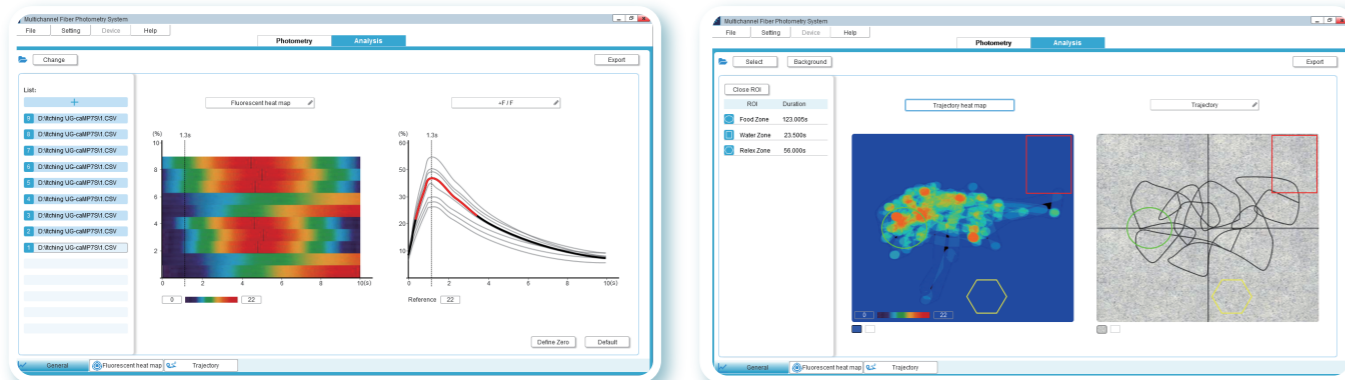
# R810

## Dual Color Multichannel Fiber Photometry System



- 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 exported to CSV, HeatMap, df/f, Z-Score and other formats.



### 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 7 channels at the same time, suitable for simultaneous recording of multiple brain regions or multiple animals.

### RWD Life Science Co.,Ltd

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

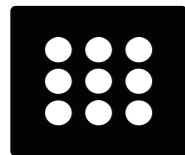
### RWD Life Science Inc.

Add: 850 New Burton Road, Suite 201, Dover, DE 19904 (New Office)  
Tel: (858)900-5879 E-mail: service@rwdls.com

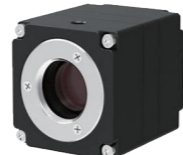
# R810 Dual Color Multichannel Fiber Photometry System



## 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

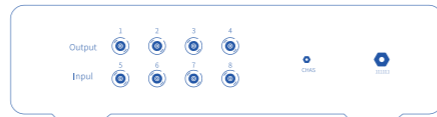


410nm LED



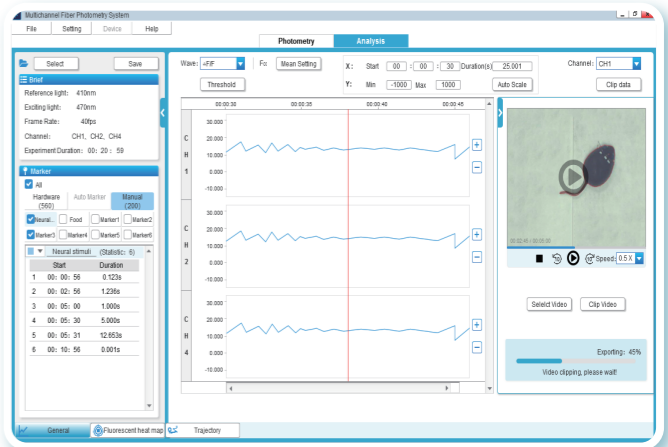
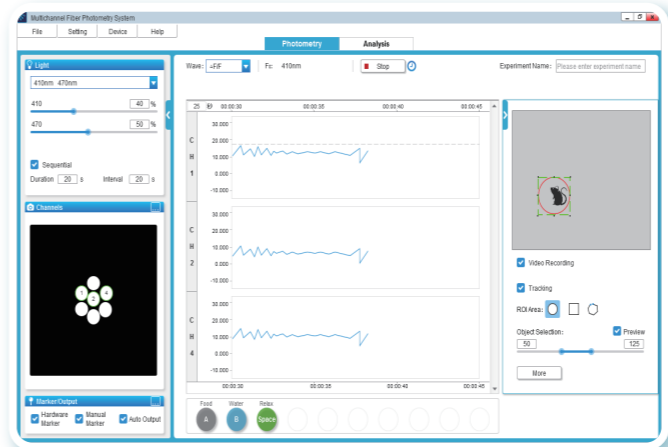
470nm LED

- 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.

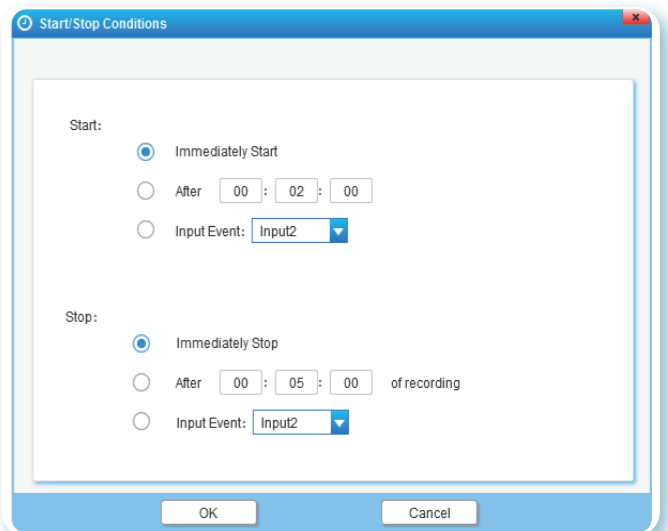
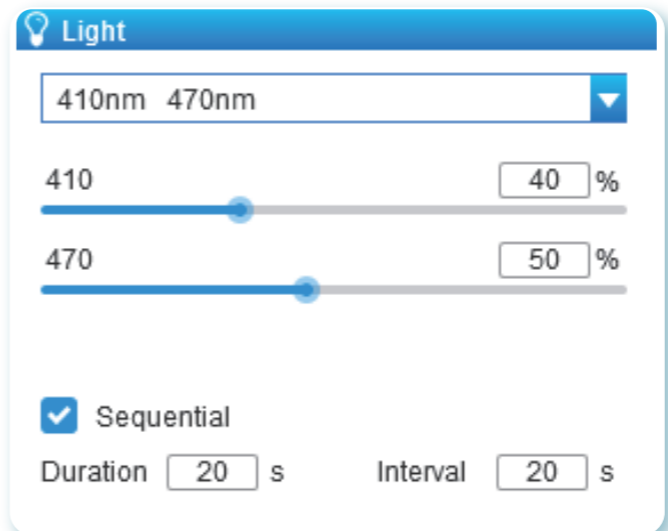


- 4 Input ports, support a variety of external signal input and automatic marking, 4 Output ports, support outputting TTL signals to trigger external third-party equipment, support 3 signal communication methods: high level.

## Software



- Professional integrated software, fluorescence data and animal behavior video can be collected and analyzed simultaneously.



- 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.

