

Tele2Fipho^o

Wireless 2ch Fiberphotometry



Tele2Fipho is a 2 channel version of our established TeleFipho wireless fiber photometry system. Tele2Fipho has 2 different headstage types - the "-2P" headstage for two position recording, and the "-2C" headstage for two color recording.

In "-2P" headstage, you can collect wireless photometry signals from two separate positions, by specifying the length and interval of the dedicated dual cannula when ordering. It is suitable for recording from bilateral hemispheres or afferent / efferent two brain regions, etc., in a freely moving mouse.

"-2C" headstage has two independent light paths dedicated for green indicator (e.g. GCaMP) and red indicator (e.g. R-GECO), respectively. For recording both green and red signal from the same brain region, please specify the interval of the dual cannula as "0mm", so that the two optic fibers are bundled together and can pick most proximal signals. You can also record from two separated positions with different colors (one for green and the other for red), by using the non-bundled dual cannula as in the "-2P" headstage.

Tele2Fipho receiver receiving wireless signal from the headstage is connected to a PC via USB to visualize the 2 channel photometry signals in real time. The receiver has 2 channel analog output so the photometry signals can be recorded in an external data acquisition system as well.

Tele2Fipho-set-2P Tele2Fipho system for 2 position recording

- Including:
- 1x **Tele2FiT-2P** Tele2Fipho 2 position headstage
 - 1x **Tele2FiR** Tele2Fipho receiver
 - 1x **Tele2FiTool** Stereotaxic adapter for dual cannula
 - 1x **Tele2FiDummy** Tele2Fipho dummy headstage
 - 1x **TeleFiCharger** Headstage Charger
 - 3x **Tele2FiCD-I-i *** Dual cannula
- * I: fiber length (mm), i: fiber interval (mm)

Tele2Fipho-set-2C Tele2Fipho system for 2 color recording

- Including:
- 1x **Tele2FiT-2C** Tele2Fipho 2 color headstage
 - 1x **Tele2FiR** Tele2Fipho receiver
 - 1x **Tele2FiTool** Stereotaxic adapter for dual cannula
 - 1x **Tele2FiDummy** Tele2Fipho dummy headstage
 - 1x **TeleFiCharger** Headstage Charger
 - 3x **Tele2FiCD-I-i *** Dual cannula
- * I: fiber length (mm), i: fiber interval (mm)

Specification	
Headstage weight	4g
Headstage size	17 x 17 x 23mm
Excitation power	5 ~ 50μW@250μm fiber end
ADC resolution	16bit
Detector	Photodiode
Battery life	2 hours @ Ex. power 15μW
Transmission band	2.4GHz
Transmission distance	2m
Power	Battery powered, rechargeable
Analog input	1x general purpose analog in (0 ~ 5V)
Analog output	2x photometry analog out
PC interface	USB / Tele2Fipho Software (Winows 11)
"-2P" headstage	
Sampling rate	50Hz/ch
Gain	10 ¹⁰ V/A
Excitation	445-490nm
Emission	500-550nm
"-2C" headstage	
Sampling rate	20Hz/ch
Gain	3 x 10 ⁸ V/A
Green excitation	445-490nm
Green emission	510-530nm
Red excitation	540-580nm
Red emission	595-665nm

TeleFiCD-I-i

Dual Cannula

*For "-2P" two position headstage

*Please specify interval "-i" in 0.1mm resolution

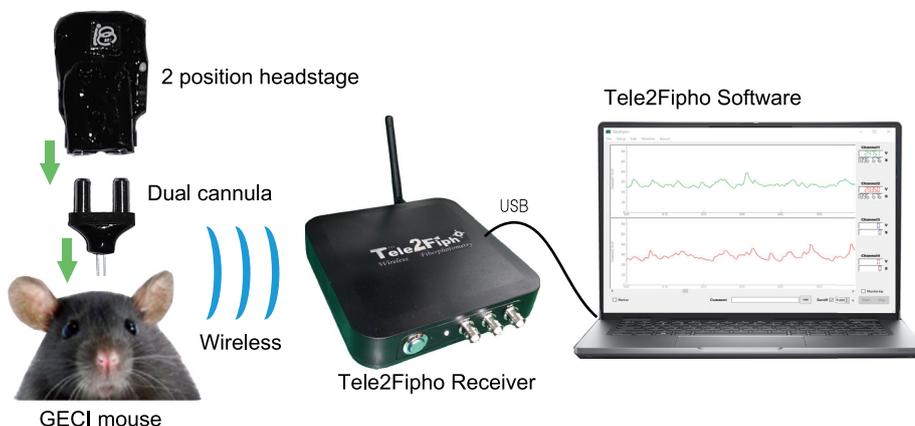


TeleFiCD-I-0

Dual Cannula

*For "-2C" two color headstage

*Interval 0mm (bundled)



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