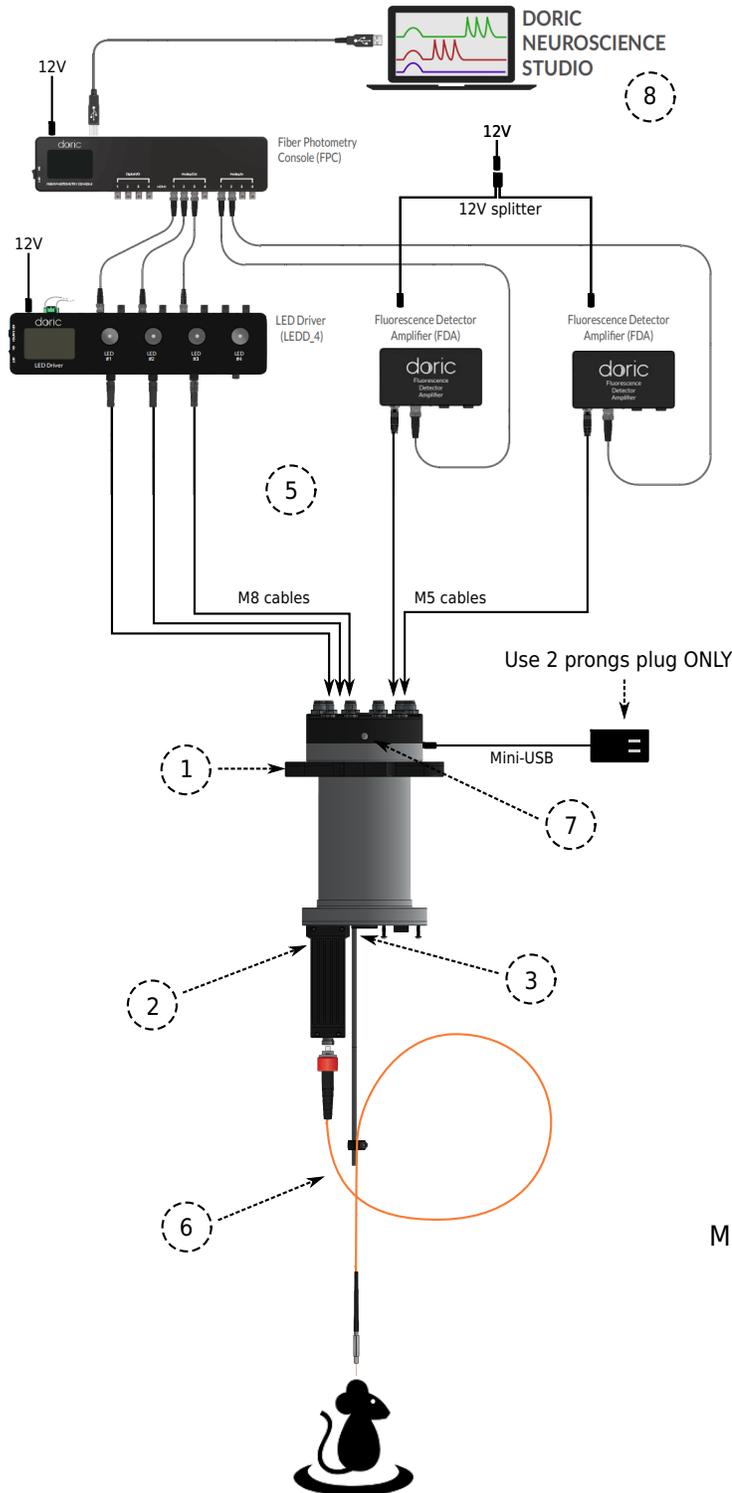
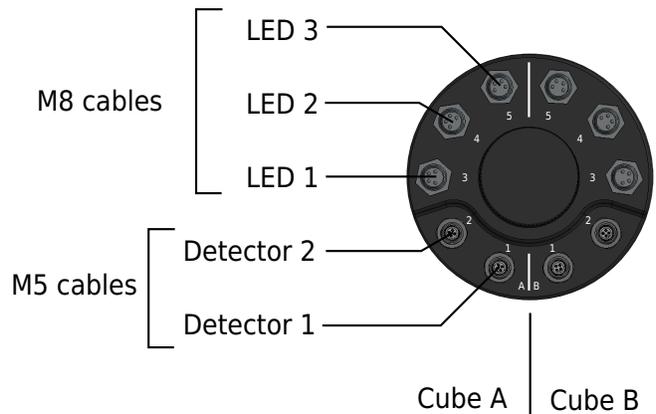


Getting Started

Rotary Fluorescence Mini Cube system - One cube configuration



1. Install the 2 part holder on the Rotary Joint (RJ).
2. Install the Rotary Fluorescence Mini Cube (RFMC) with the 2 screws already on the RJ.
3. Screw the torque detection bracket on the torque sensor.
4. Install the RJ at the top of your cage.
5. Plug the M8, M5, BNC, USB & power cables:
 - The RJ top connection diagram is shown below
 - The number of M8 cables, M5 cables and amplifiers will vary depending on your RFMC configuration
 - Single detector configuration do not have a 12V splitter
6. Plug the patch cord in the RFMC and loop it in the torque detection bracket, as shown.
7. Power on the RJ by pressing the front button then adjust the fiber angle so that the RJ does not move when left untouched.
8. Download and install the Doric Neuroscience Studio software on the Doric website.
9. Configure your settings by following the base configuration section on [page 2](#).



The detectors and LEDs numbering is indicated on each RFMC test sheet.

Basic configuration

Rotary Fluorescence Mini Cube system - One cube configuration



LED driver

- Low-power mode
- Current: 200mA
- External analog

Fluorescence Detector Amplifier

- DC mode
- 10X gain

For more details about the LED driver and Fluorescence Detector Amplifier, please check the user manual of each product on the download section of their respective page on the Doric website.

Fiber Photometry Console (FPC)

For a complete Lock-In set up guide, please check the Fiber Photometry Getting Started guide on the FPC page of the Doric website.

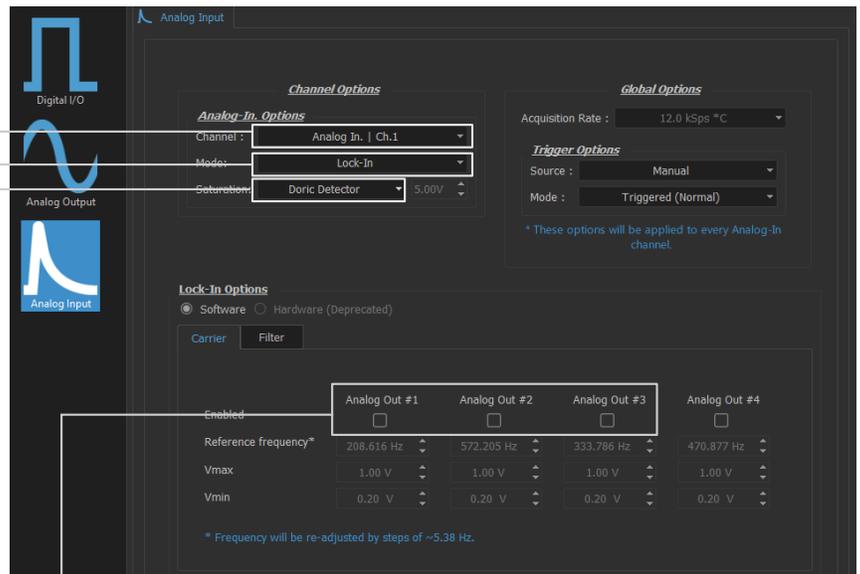
This section assume the following connections:

- LED 1 -> LED driver ch 1 -> FPC Analog Out 1
- LED 2 -> LED driver ch 2 -> FPC Analog Out 2
- LED 3 -> LED driver ch 3 -> FPC Analog Out 3

- Detector 1 -> FPC Analog In 1
- Detector 2 -> FPC Analog In 2

In Doric Neuroscience Studio, add a new channel with the following parameters:

- Mode: Lock-in
- Saturation: Doric Detector
- Enable the carriers according to your configurations in the table below.



	RFMC type											
	1 LED & 1 detector			2 LED & 1 detector			3 LED & 2 detector			2 LED & 1 detector		
	1	2	3	1	2	3	1	2	3	1	2	3
Carrier check boxes: Analog Out												
Console channel: Analog In 1	X			X	X		X	X		X		
Console channel: Analog In 2		No detector 2			No detector 2				X		X	

If you have a custom RMFC or you think your configuration should differ from the above, please contact us for the correct lock-in configuration