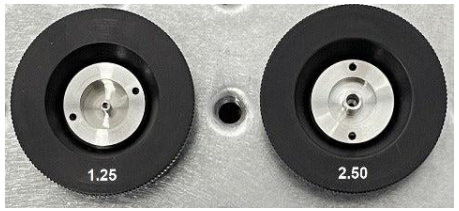
Guidelines for measuring power with *ProntoSI* power meter

Doric Lenses

Without Adapter

Adapters

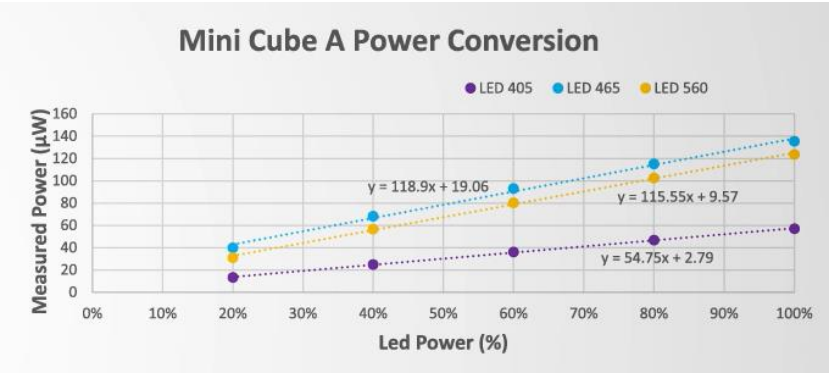


With Adapter

Measuring experimental photometry excitation power [G1 & G2 mini cubes]

1. Load experimental configuration in *Doric Neuroscience Studio*
   - Both for *Acquisition Console* & *LED Driver* modules
2. Connect fiber (with adaptor) to the power meter (see **slide 2**)
3. Make sure the light source is OFF (i.e. the software is not running)
4. Zero the power meter (**slide 5** for more details)
5. On the *LED Driver,* turn OFF all light sources except the light source that you will be measuring.
   - LED Driver should be in *ExAnal* mode (and *low-power (-)* if relevant).
6. Change the wavelength on the power meter to match the light source that is ON (on the *LED Driver*). (**slide 6** for more details)
7. In *Doric Neuroscience Studio,* start *Live* mode, as if running test experiment
   - Both for *Acquisition Console* & *LED Driver* modules
8. Note down the value on the power meter.
9. Modify the ***LED Power %*** in the Lock-In configuration and repeat for different values

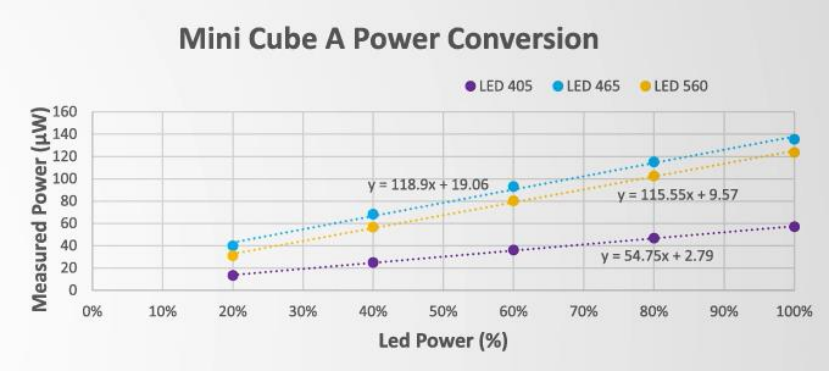
Repeat for all LED excitations



* Real values measure G3 cube, iIFMC-G3 mode

Measuring experimental photometry excitation power [G3 mini cubes]

1. Create dedicated configurations to measure power of each excitation independently.
   - See **slide 7** for more details
2. Load dedicated configuration file for the first light source in *Doric Neuroscience Studio*
3. Connect fiber (with adaptor)
4. Make sure the light source is OFF (i.e. the software is not running)
5. Zero the power meter
   - See **slide 5** for more details
6. Change the wavelength on the power meter to match the loaded configuration
   - See **slide 6** for more details
7. In *Doric Neuroscience Studio,* start *Live* mode
8. Note down the value on the power meter.
9. Modify the ***LED Power %*** in the Lock-In configuration and repeat (steps 7-9) for different values

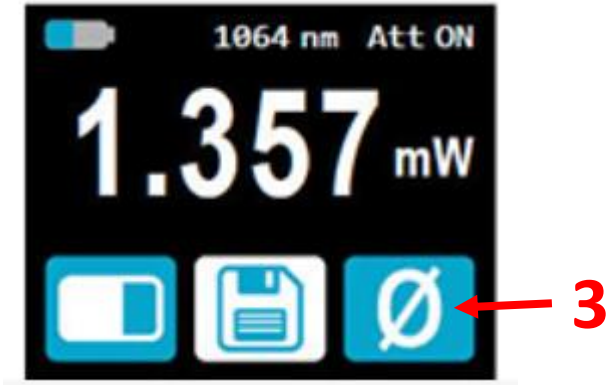


* Real values measure G3 cube, iIFMC-G3 mode

Repeat for all LED excitations

Zero the power meter

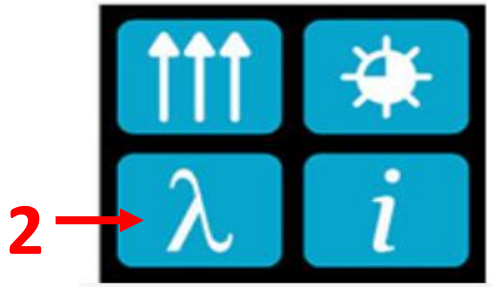
1. Connect fiber (with adaptor)
2. Make sure the light source is OFF
3. Click the Ø button on the screen



Change the Wavelength

1. Click the large **blue button** beside the screen.
2. Select the **λ** button on the screen
3. Select one of the preset wavelengths

OR



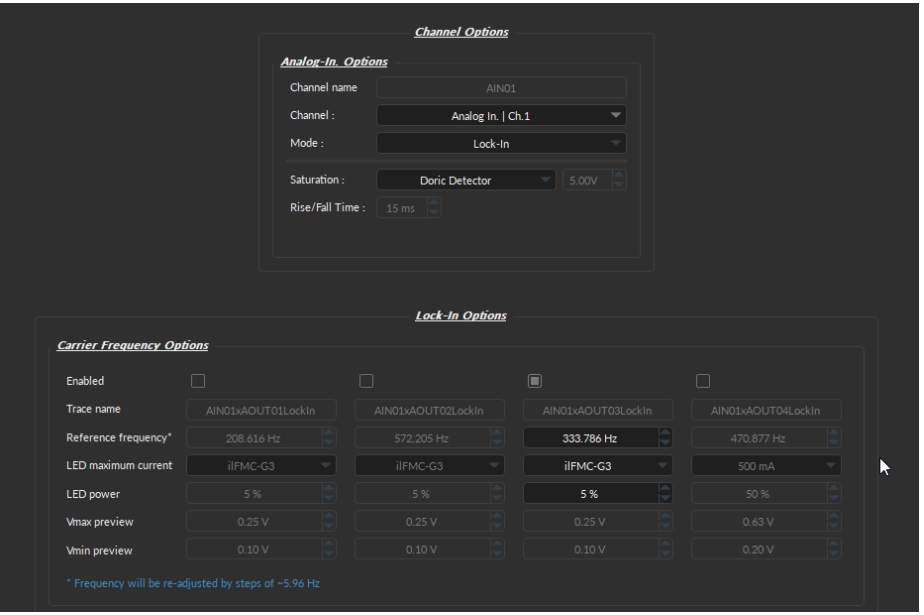
4. **Press and hold** one of the preset wavelengths to change its value.

Touch digit to select it

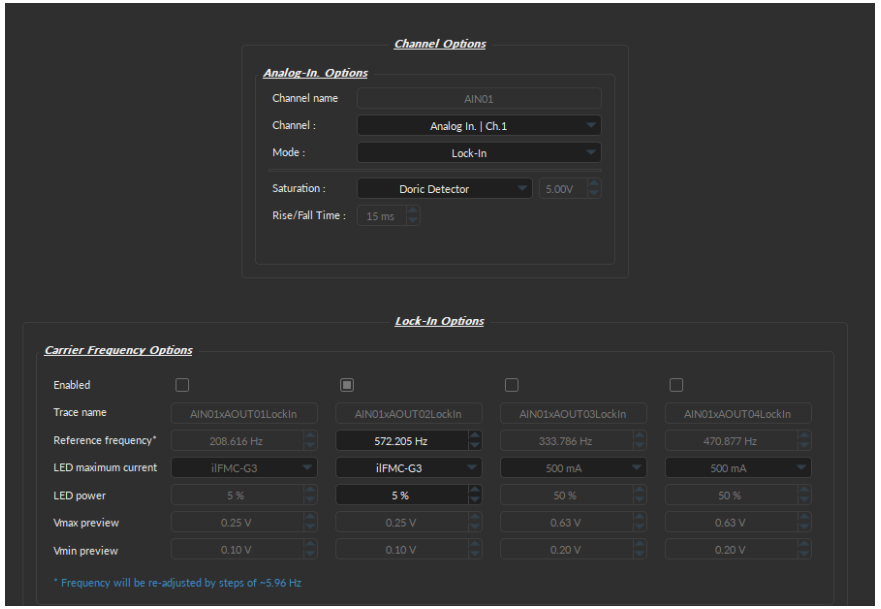
Increase of decrease the value of the **blue digit** with the **arrows**

G3 dedicated config for measuring power

Config 1: 405 nm



Config 2: 470 nm



Config 3: 560 nm