

Background

The Moxi GO II is shipped with a 525/45nm filter in the “PMT1” slot (see image to right) and a 561nm/LP filter in the “PMT2” slot as the default configuration. However, Orflo does provide the option to swap the 561nm/LP filter for a 646nm/LP filter. This filter, in the majority of cases, eliminates the need to compensate for fluorescence “spillover” from the green channel (e.g. FITC, AF488, GFP, Acridine Orange) into the PMT2 channel. However, the 646nm/LP prevents the ability to measure Phycoerythrin (PE) on the PMT2 channel. So, there may be a need to periodically swap filters in that channel, depending on the application.

Swapping filters

To swap the filters, it is necessary to use a lever that, ideally, won't scratch the surface of the instrument. We recommend the use of either wooden stir sticks or 1000µL pipette tips at implements that might be commonly found in labs. Pictures are shown on the next page (for both tools) to help illustrate the process:

1. Using that implement as a lever, gently insert it into the notch to the left of the PMT2 filter.
2. Lever angle the lever to get the black filter to lift out from the instrument.
3. Use your fingers to pull the filter the rest of the way up, removing it from the system.
4. Insert the desired filter into the system, making sure that the black top is pressed all the way in so that is flush with the blue top of the system.

Note: *If you need to identify a filter type, the filters are typically labeled on the top or bottom with the filter wavelength (e.g. the 561nm/LP is shown at the bottom of the next page).*



Please contact Orflo Technical Support (Tech_support@orflo.com, 855-879-6694) for any technical inquiries assistance.

Moxi GO II – Filter Swap Protocol

