

Determining the Offset on Your ECO Instrument

To determine a 'dark count' value or 'offset' for your ECO we recommend that the instrument be configured in as close a manner to the actual deployment mode as possible. This means the meter should be installed on the cage or logging system (CTD or other data logger), powered and deployed in water as it will be during operation.

- 1) Cover the LED and Detector with black electrical tape (see photo 2) or a black static cling sticker (see photo 3) and turn the system on.
- 2) Record the ECO's output. Use the minimum or average value as your offset.

WET Labs records sixty seconds of data at 1 Hz and reports the minimum value on the calibration worksheet.

We commonly see variability of 1 to 2 counts.

Please contact WET Labs' support team if your variability is more than 10 counts.
Please contact WET Labs' support team if your offset value is more than 20 counts from the calibration value.

ECO LED and Detector



Photo 1

Black Electrical Tape Placement



Photo 2

Black Static Cling Placement



Photo 3

Smooth the tape to remove bubbles