WET Labs

Scattering Meter Calibration Sheet

4/26/2017
Wavelength: 700   S/N FLBBCD2K-4701

Use the following equation to obtain either digital or analog "scaled" output values:

$$\beta(\theta_c)\ m^{-1}\ sr^{-1} = \textbf{Scale Factor} \times (\textbf{Output - Dark Counts})$$

- **Scale Factor for 700 nm**   =   1.639E-06 $(m^{-1}sr^{-1})$/counts

- **Output**   =   meter output counts

- **Dark Counts**   =   45 counts

  Instrument Resolution   =   1.0 counts

Definitions:

- **Scale Factor**: Calibration scale factor, $\beta(\theta_c)$/counts. Refer to User's Guide for derivation.

- **Output**: Measured signal output of the scattering meter.

- **Dark Counts**: Signal obtained by covering detector with black tape and submersing sensor in water.
Instrument Resolution: Standard deviation of 1 minute of collected data.