



Scattering Meter Calibration Sheet

5/28/2013

Wavelength: 650

S/N BB2FLMBA-1073

Use the following equation to obtain "scaled" output values:

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

• Scale Factor for 650 nm	=	3.515E-06 (m ⁻¹ sr ⁻¹)/counts
• Output	=	meter reading counts
• Dark Counts	=	30 counts
Instrument Resolution	=	1.5 counts 5.39E-06 (m ⁻¹ sr ⁻¹)

Definitions:

- **Scale Factor:** Calibration scale factor, $\beta(\theta_c)/\text{counts}$. 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.