



Scattering Meter Calibration Sheet

8/26/2009

Wavelength: 650 S/N BB9-132

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

$$\beta(\theta_c)$$
 m⁻¹ sr⁻¹ = Scale Factor x (Output - Dark Counts)

• Scale Factor for 650 nm = 1.083E-05 (m⁻¹sr⁻¹)/counts

Output = meter reading counts

• Dark Counts = 46 counts

Instrument Resolution = 0.9 counts 9.46E-06 ($m^{-1}sr^{-1}$)

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.