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Scattering Meter Calibration Sheet

9/23/2014

Wavelength: 700 S/N FLBBRTD-3697

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

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$\beta(\theta_c) \text{ m}^{-1} \text{ sr}^{-1} = \text{Scale Factor } \times \text{ (Output - Dark Counts)}$			
 Scale Factor for 700 nm 	=	1.634E-06 (m ⁻¹ sr ⁻¹)/counts	1.342E-03 (m ⁻¹ sr ⁻¹)/volts
Output	=	meter output counts	meter output volts
Dark Counts	=	42 counts	0.0511 volts
Instrument Resolution	=	1.0 counts 0.7491 mV	1.63E-06 (m ⁻¹ sr ⁻¹)
		0.7491 1110	

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.

FLBBRTD-3697.xls Revision S 10/4/07