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SEA-BIRD SCIENTIFIC

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Scattering Meter Calibration Sheet

11/11/2022
Wavelength: 412 S/N BB3-7905

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

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

• **Scale Factor for 412 nm**	=	1.102E-05	$(m^{-1}sr^{-1})$/counts	
• **Output**	=	4130	counts	
• **Dark counts**	=	50	counts	
Instrument Resolution	=	1.0	counts	1.10E-05 $(m^{-1}sr^{-1})$

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.

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Scattering Meter Calibration Sheet

11/11/2022
Wavelength: 532 S/N BB3-7905

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

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

• **Scale Factor for 532 nm**	=	6.619E-06	$(m^{-1}sr^{-1})$/counts	
• **Output**	=	4130	counts	
• **Dark Counts**	=	50	counts	
Instrument Resolution	=	1.0	counts	6.62E-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.

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Scattering Meter Calibration Sheet

11/11/2022
Wavelength:676 S/N#: BB3-7905

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

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

• **Scale Factor for 676 nm**	=	3.185E-06	$(m^{-1}sr^{-1})$/counts	
• **Output**	=	4130	counts	
• **Dark counts**	=	50	counts	
Instrument Resolution	=	1.0	counts	3.19E-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.