

## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 412

S/N BB9-132

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 412 nm** = 1.294E-05 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark counts** = 49 counts

Instrument Resolution = 1.0 counts 1.29E-05 (m<sup>-1</sup>sr<sup>-1</sup>)

### 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.

## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 440

S/N BB9-132

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 440 nm** = 1.415E-05 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark Counts** = 51 counts

Instrument Resolution = 1.0 counts 1.41E-05 (m<sup>-1</sup>sr<sup>-1</sup>)

### 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.

## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 488

S/N BB9-132

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 488 nm** = 1.247E-05 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark counts** = 51 counts

Instrument Resolution = 1.0 counts 1.25E-05 (m<sup>-1</sup>sr<sup>-1</sup>)

### 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.

## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 510

S/N BB9-132

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 510 nm** = 1.008E-05 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark counts** = 59 counts

Instrument Resolution = 1.0 counts 1.01E-05 (m<sup>-1</sup>sr<sup>-1</sup>)

### 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.

## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 532

S/N BB9-132

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 532 nm** = 8.666E-06 ( $\text{m}^{-1}\text{sr}^{-1}$ )/counts
- **Output** = meter reading counts
- **Dark Counts** = 56 counts

Instrument Resolution = 1.0 counts 8.67E-06 ( $\text{m}^{-1}\text{sr}^{-1}$ )

### 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.

## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 595

S/N BB9-132

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 595 nm** = 5.333E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark counts** = 52 counts

Instrument Resolution = 1.0 counts 5.33E-06 (m<sup>-1</sup>sr<sup>-1</sup>)

### 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.



## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 650

S/N BB9-132

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** = 4.054E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark Counts** = 55 counts

Instrument Resolution = 1.0 counts 4.05E-06 (m<sup>-1</sup>sr<sup>-1</sup>)

### 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.

## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 715

S/N BB9-132

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 715nm** = 3.240E-06 (m<sup>-1</sup>sr<sup>-1</sup>)/counts
- **Output** = meter reading counts
- **Dark Counts** = 56 counts

Instrument Resolution = 1.0 counts 3.24E-06 (m<sup>-1</sup>sr<sup>-1</sup>)

### 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.





## Scattering Meter Calibration Sheet

8/7/2018

Wavelength: 880

S/N BB9-132

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

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

• <b>Scale Factor for 880 nm</b>	=	2.525E-06	(m <sup>-1</sup> sr <sup>-1</sup> )/counts
• <b>Output</b>	=	meter reading	counts
• <b>Dark Counts</b>	=	53	counts
Instrument Resolution	=	1.0	counts      2.53E-06 (m <sup>-1</sup> sr <sup>-1</sup> )

### 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.