

1. Radiometric Correction

1.1. Method

100 images were acquired on the sphere output and averaged to a calibration image. Also, 100 dark images were acquired and averaged to one dark image. The calibration image was corrected by dark image subtraction. The corrected calibration image and the known spectral radiance values of the sphere were then used to calculate the radiance calibration coefficient for each pixel of the camera.

1.2. General Information

PARAMETER	VALUE
Sensor	aisaFenix1K
Measured by	KKA
File date	14-Dec-2020
Report date	14-Dec-2020
Sensor type	aisaFenix1K
Sensor serial no	360009
Binning	2x2_1x1
Project	NERC
Measurement phase	Final calibration

1.3. Results summary

The result of the radiometric calibration is presented in Figures 1,2 and 3,4, in which calibration coefficient and radiance sensitivity of the sensors are plotted at the center of the detector.

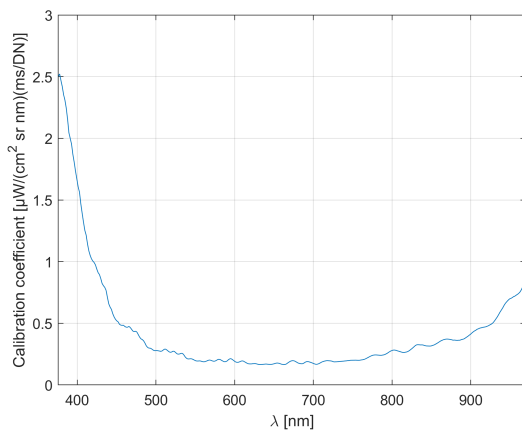


Figure Radiometric 1.
Radiometric calibration coefficient of VNIR sensor.

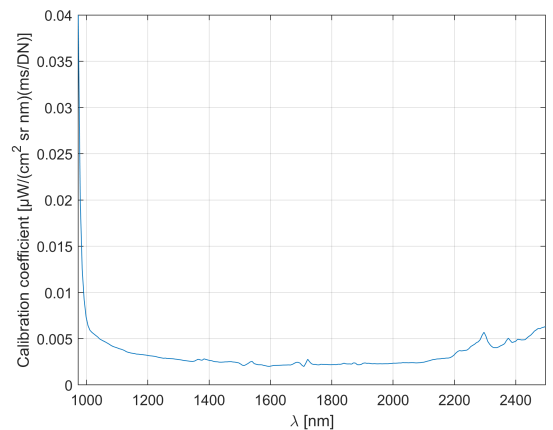


Figure Radiometric 2.
Radiometric calibration coefficient of SWIR sensor.

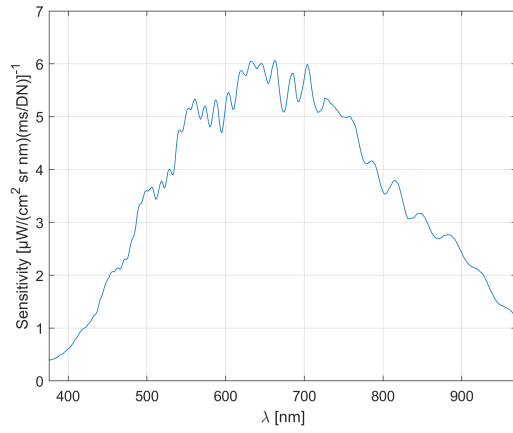


Figure Radiometric 3.
Radiance sensitivity of the VNIR sensor.

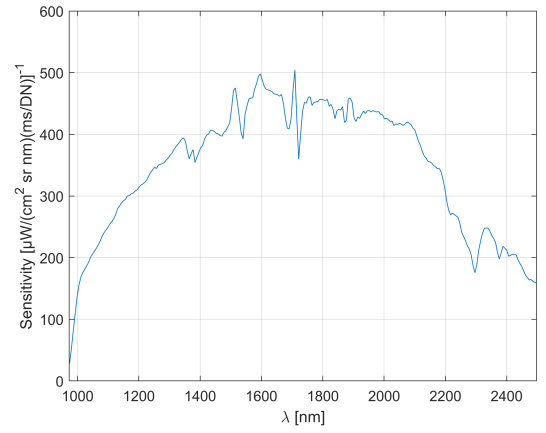


Figure Radiometric 4.
Radiance sensitivity of the SWIR sensor.

1.4. Notes

Calibration source file:	GH23756aw_100pros_03-2020.mat
Luminance of the sphere:	5757 cd/m ²
Calibration filename:	Radiometric_2x2.cal
SW Version:	Alice_debug 9999_999
Additional Notes:	