Quality Report



Generated with Pix4Dmapper version 4.5.6



Important: Click on the different icons for:

- Pelp to analyze the results in the Quality Report
- Additional information about the sections



Click here for additional tips to analyze the Quality Report

Summary



| Project | 40m_att5 |
|--|--|
| Processed | 2020-11-04 09:29:33 |
| Camera Model Name(s) | FC6360_5.7_1600x1300 (Blue), FC6360_5.7_1600x1300 (Green), FC6360_5.7_1600x1300 (Red), FC6360_5.7_1600x1300 (Red edge), FC6360_5.7_1600x1300 (NIR), FC6360_5.7_1600x1300 (RGB) |
| Rig name(s) | «FC6360» |
| Average Ground Sampling Distance (GSD) | 2.36 cm / 0.93 in |
| Time for Initial Processing (without report) | 16m:03s |

Quality Check



| ? Images | median of 477 keypoints per image | Δ |
|-----------------------|---|----------|
| ② Dataset | 828 out of 828 images calibrated (100%), all images enabled | ② |
| ? Camera Optimization | 47.65% relative difference between initial and optimized internal camera parameters | A |
| Matching | median of 204.494 matches per calibrated image | ② |
| @ Georeferencing | yes, no 3D GCP | <u> </u> |

Calibration Details



| Number of Calibrated Images | 828 out of 828 |
|-----------------------------|----------------|
| Number of Geolocated Images | 828 out of 828 |





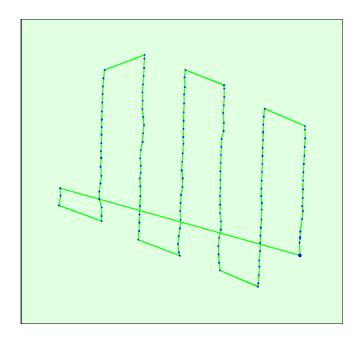


Figure 2: Top view of the initial image position. The green line follows the position of the images in time starting from the large blue dot.

1 Computed Image/GCPs/Manual Tie Points Positions

Uncertainty ellipses 5x magnified

Absolute camera position and orientation uncertainties

(1)

| | X[m] | Y[m] | Z[m] | Omega [degree] | Phi [degree] | Kappa [degree] |
|-------|-------|-------|-------|----------------|--------------|----------------|
| Mean | 0.105 | 0.123 | 0.078 | 0.132 | 0.120 | 0.054 |
| Sigma | 0.015 | 0.019 | 0.005 | 0.017 | 0.016 | 0.001 |

Bundle Block Adjustment Details



| Number of 2D Keypoint Observations for Bundle Block Adjustment | 65130 |
|--|-------|
| Number of 3D Points for Bundle Block Adjustment | 15242 |
| Mean Reprojection Error [pixels] | 0.099 |

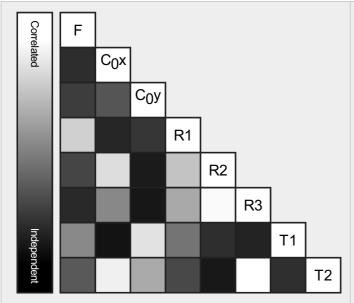
Internal Camera Parameters

FC6360_5.7_1600x1300 (Blue). Sensor Dimensions: 5.022 [mm] x 4.081 [mm]

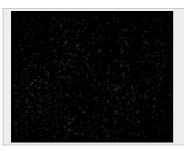
1

EXIF ID: FC6360_5.7_1600x1300

| | Focal Length | Principal Point x | Principal Point y | R1 | R2 | R3 | T1 | T2 |
|-----------------------|--------------------------------|-------------------------------|-------------------------------|--------|-------|--------|-------|-------|
| Initial Values | 1828.571 [pixel] 5.740 [mm] | 755.798 [pixel] 2.372 [mm] | 617.107 [pixel] 1.937 [mm] | -0.410 | 0.348 | -0.365 | 0.001 | 0.001 |
| Optimized Values | 2790.159 [pixel] 8.758 [mm] | 770.546 [pixel] 2.419 [mm] | 618.151 [pixel] 1.940 [mm] | -0.843 | 1.280 | -2.196 | 0.009 | 0.004 |
| Uncertainties (Sigma) | 49.044 [pixel] 0.154 [mm] | 4.871 [pixel] 0.015 [mm] | 4.224 [pixel] 0.013 [mm] | 0.037 | 0.351 | 1.568 | 0.001 | 0.001 |



The correlation between camera internal parameters determined by the bundle adjustment. White indicates a full correlation between the parameters, ie. any change in one can be fully compensated by the other. Black indicates that the parameter is completely independent, and is not affected by other parameters.

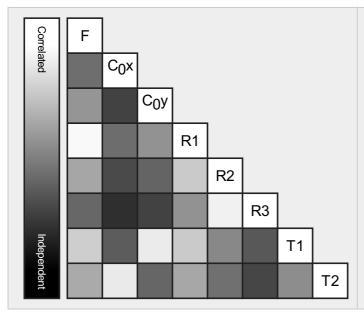


The number of Automatic Tie Points (ATPs) per pixel, averaged over all images of the camera model, is color coded between black and white. White indicates that, on average, more than 16 ATPs have been extracted at the pixel location. Black indicates that, on average, 0 ATPs have been extracted at the pixel location. Click on the image to the see the average direction and magnitude of the reprojection error for each pixel. Note that the vectors are scaled for better visualization. The scale bar indicates the magnitude of 1 pixel error.

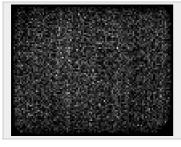
FC6360_5.7_1600x1300 (Green). Sensor Dimensions: 5.022 [mm] x 4.081 [mm]

EXIF ID: FC6360_5.7_1600x1300

| | Focal Length | Principal Point x | Principal Point y | R1 | R2 | R3 | T1 | T2 |
|-----------------------|--------------------------------|-------------------------------|-------------------------------|--------|-------|--------|-------|-------|
| Initial Values | 1828.571 [pixel] 5.740 [mm] | 756.658 [pixel] 2.375 [mm] | 617.126 [pixel] 1.937 [mm] | -0.409 | 0.333 | -0.309 | 0.001 | 0.001 |
| Optimized Values | 2780.387 [pixel] 8.728 [mm] | 771.674 [pixel] 2.422 [mm] | 594.076 [pixel] 1.865 [mm] | -0.846 | 1.225 | -1.795 | 0.007 | 0.005 |
| Uncertainties (Sigma) | 48.856 [pixel] 0.153 [mm] | 2.041 [pixel] 0.006 [mm] | 2.224 [pixel] 0.007 [mm] | 0.030 | 0.136 | 0.515 | 0.001 | 0.000 |



The correlation between camera internal parameters determined by the bundle adjustment. White indicates a full correlation between the parameters, ie. any change in one can be fully compensated by the other. Black indicates that the parameter is completely independent, and is not affected by other parameters.



The number of Automatic Tie Points (ATPs) per pixel, averaged over all images of the camera model, is color coded between black and white. White indicates that, on average, more than 16 ATPs have been extracted at the pixel location. Black indicates that, on average, 0 ATPs have been extracted at the pixel location. Click on the image to the see the average direction and magnitude of the reprojection error for each pixel. Note that the vectors are scaled for better visualization. The scale bar indicates the magnitude of 1 pixel error.

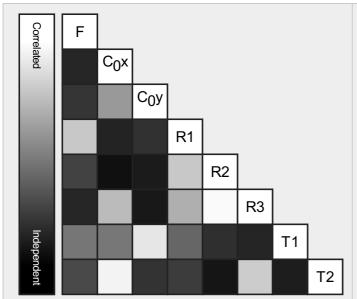
Internal Camera Parameters

FC6360_5.7_1600x1300 (Red). Sensor Dimensions: 5.022 [mm] x 4.081 [mm]

EXIF ID: FC6360_5.7_1600x1300

| | Focal Length | Principal Point x | Principal Point y | R1 | R2 | R3 | T1 | T2 |
|-----------------------|--------------------------------|-------------------------------|-------------------------------|--------|-------|--------|-------|-------|
| Initial Values | 1828.571 [pixel] 5.740 [mm] | 756.323 [pixel] 2.374 [mm] | 617.463 [pixel] 1.938 [mm] | -0.412 | 0.372 | -0.425 | 0.001 | 0.001 |
| Optimized Values | 2787.087 [pixel] 8.749 [mm] | 772.326 [pixel] 2.424 [mm] | 622.349 [pixel] 1.954 [mm] | -0.845 | 1.327 | -2.098 | 0.007 | 0.003 |
| Uncertainties (Sigma) | 49.006 [pixel] 0.154 [mm] | 5.888 [pixel] 0.018 [mm] | 4.954 [pixel] 0.016 [mm] | 0.038 | 0.392 | 1.736 | 0.001 | 0.001 |





The correlation between camera internal parameters determined by the bundle adjustment. White indicates a full correlation between the parameters, ie. any change in one can be fully compensated by the other. Black indicates that the parameter is completely independent, and is not affected by other parameters.



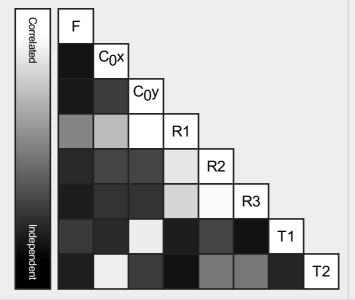
The number of Automatic Tie Points (ATPs) per pixel, averaged over all images of the camera model, is color coded between black and white. White indicates that, on average, more than 16 ATPs have been extracted at the pixel location. Black indicates that, on average, 0 ATPs have been extracted at the pixel location. Click on the image to the see the average direction and magnitude of the reprojection error for each pixel. Note that the vectors are scaled for better visualization. The scale bar indicates the magnitude of 1 pixel error.

Internal Camera Parameters

FC6360_5.7_1600x1300 (Red edge). Sensor Dimensions: 5.022 [mm] x 4.081 [mm]

EXIF ID: FC6360_5.7_1600x1300

| | Focal Length | Principal Point x | Principal Point y | R1 | R2 | R3 | T1 | T2 |
|-----------------------|--------------------------------|-------------------------------|-------------------------------|--------|-------|--------|-------|-------|
| Initial Values | 1828.571 [pixel] 5.740 [mm] | 755.613 [pixel] 2.372 [mm] | 617.364 [pixel] 1.938 [mm] | -0.406 | 0.310 | -0.258 | 0.001 | 0.001 |
| Optimized Values | 2751.136 [pixel] 8.636 [mm] | 765.215 [pixel] 2.402 [mm] | 614.199 [pixel] 1.928 [mm] | -0.816 | 1.122 | -1.717 | 0.004 | 0.003 |
| Uncertainties (Sigma) | 49.047 [pixel] 0.154 [mm] | 14.001 [pixel] 0.044 [mm] | 15.250 [pixel] 0.048 [mm] | 0.063 | 0.773 | 3.236 | 0.002 | 0.003 |



The correlation between camera internal parameters determined by the bundle adjustment. White indicates a full correlation between the parameters, ie. any change in one can be fully compensated by the other. Black indicates that the parameter is completely independent, and is not affected by other parameters.



The number of Automatic Tie Points (ATPs) per pixel, averaged over all images of the camera model, is color coded between black and white. White indicates that, on average, more than 16 ATPs have been extracted at the pixel location. Black indicates that, on average, 0 ATPs have been extracted at the pixel location. Click on the image to the see the average direction and magnitude of the reprojection error for each pixel. Note that the vectors are scaled for better visualization. The scale bar indicates the magnitude of 1 pixel error.

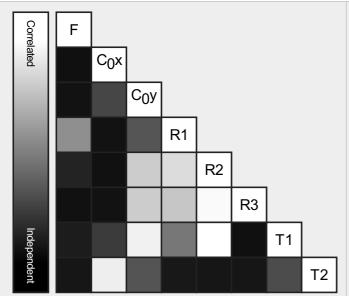
Internal Camera Parameters

FC6360_5.7_1600x1300 (NIR). Sensor Dimensions: 5.022 [mm] x 4.081 [mm]

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EXIF ID: FC6360_5.7_1600x1300

| | Focal Length | Principal Point x | Principal Point y | R1 | R2 | R3 | T1 | T2 |
|-----------------------|--------------------------------|-------------------------------|-------------------------------|--------|-------|--------|-------|-------|
| Initial Values | 1828.571 [pixel] 5.740 [mm] | 755.238 [pixel] 2.371 [mm] | 618.263 [pixel] 1.941 [mm] | -0.406 | 0.326 | -0.312 | 0.001 | 0.001 |
| Optimized Values | 2752.753 [pixel] 8.641 [mm] | 774.198 [pixel] 2.430 [mm] | 635.551 [pixel] 1.995 [mm] | -0.789 | 0.858 | -0.802 | 0.008 | 0.002 |
| Uncertainties (Sigma) | 49.373 [pixel] 0.155 [mm] | 13.448 [pixel] 0.042 [mm] | 25.514 [pixel] 0.080 [mm] | 0.055 | 0.672 | 2.924 | 0.005 | 0.003 |



The correlation between camera internal parameters determined by the bundle adjustment. White indicates a full correlation between the parameters, ie. any change in one can be fully compensated by the other. Black indicates that the parameter is completely independent, and is not affected by other parameters.



The number of Automatic Tie Points (ATPs) per pixel, averaged over all images of the camera model, is color coded between black and white. White indicates that, on average, more than 16 ATPs have been extracted at the pixel location. Black indicates that, on average, 0 ATPs have been extracted at the pixel location. Click on the image to the see the average direction and magnitude of the reprojection error for each pixel. Note that the vectors are scaled for better visualization. The scale bar indicates the magnitude of 1 pixel error.

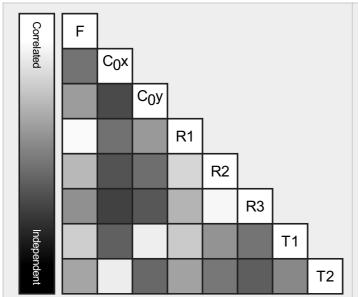
Internal Camera Parameters

☐ FC6360_5.7_1600x1300 (RGB). Sensor Dimensions: 5.022 [mm] x 4.081 [mm]

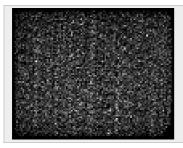
1

EXIF ID: FC6360_5.7_1600x1300

| | Focal Length | Principal Point x | Principal Point y | R1 | R2 | R3 | T1 | T2 |
|------------------|--------------------------------|-------------------------------|-------------------------------|--------|-------|--------|-------|-------|
| Initial Values | 2173.920 [pixel] 6.824 [mm] | 780.964 [pixel] 2.451 [mm] | 639.519 [pixel] 2.007 [mm] | -0.511 | 0.507 | -0.546 | 0.000 | 0.000 |
| Optimized Values | 2780.122 [pixel] 8.727 [mm] | 772.657 [pixel] 2.425 [mm] | 621.102 [pixel] 1.950 [mm] | -0.845 | 1.423 | -2.820 | 0.006 | 0.004 |



The correlation between camera internal parameters determined by the bundle adjustment. White indicates a full correlation between the parameters, ie. any change in one can be fully compensated by the other. Black indicates that the parameter is completely independent, and is not affected by other parameters.



The number of Automatic Tie Points (ATPs) per pixel, averaged over all images of the camera model, is color coded between black and white. White indicates that, on average, more than 16 ATPs have been extracted at the pixel location. Black indicates that, on average, 0 ATPs have been extracted at the pixel location. Click on the image to the see the average direction and magnitude of the reprojection error for each pixel. Note that the vectors are scaled for better visualization. The scale bar indicates the magnitude of 1 pixel error.

? Camera Rig «FC6360» Relatives. Images: 690

(1)

| | Transl X[m] | Transl Y[m] | Transl Z [m] | Rot X [degree] | Rot Y [degree] | Rot Z [degree] |
|---------------------------------|--------------|-------------|--------------|----------------|----------------|----------------|
| FC6360_5.7_1600x1300 (Green) | Reference Ca | mera | | | | |
| FC6360_5.7_1600x1300 (Blue) | | | | | | |
| Initial Values | 0.000 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 |
| Optimized values | 0.000 | 0.016 | 0.000 | -0.244 | 0.063 | 0.009 |
| Uncertainties (sigma) | | | | 0.083 | 0.100 | 0.006 |
| FC6360_5.7_1600x1300 (Red) | | | | | | |
| Initial Values | 0.016 | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 |
| Optimized values | 0.016 | 0.016 | 0.000 | -0.235 | 0.062 | -0.019 |
| Uncertainties (sigma) | | | | 0.099 | 0.121 | 0.006 |
| FC6360_5.7_1600x1300 (Red edge) | | | | | | |
| Initial Values | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Optimized values | 0.032 | 0.000 | 0.000 | -0.054 | -0.023 | 0.020 |
| Uncertainties (sigma) | | | | 0.323 | 0.293 | 0.012 |
| FC6360_5.7_1600x1300 (NIR) | | | | | | |
| Initial Values | 0.016 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Optimized values | 0.016 | 0.000 | 0.000 | -0.370 | -0.078 | -0.012 |
| Uncertainties (sigma) | | | | 0.330 | 0.274 | 0.014 |

2D Keypoints Table



| | Number of 2D Keypoints per Image | Number of Matched 2D Keypoints per Image |
|--------|----------------------------------|--|
| Median | 477 | 204 |
| Min | 355 | 0 |
| Max | 643 | 316 |
| Mean | 477 | 196 |

2D Keypoints Table for Camera FC6360_5.7_1600x1300 (Blue)

| | Number of 2D Keypoints per Image | Number of Matched 2D Keypoints per Image |
|--------|----------------------------------|--|
| Median | 514 | 158 |
| Min | 481 | 116 |
| Max | 643 | 203 |
| Mean | 525 | 164 |

2D Keypoints Table for Camera FC6360_5.7_1600x1300 (Green)

| | Number of 2D Keypoints per Image | Number of Matched 2D Keypoints per Image |
|--------|----------------------------------|--|
| Median | 468 | 198 |
| Min | 362 | 136 |
| Max | 603 | 288 |
| Mean | 472 | 203 |

2D Keypoints Table for Camera FC6360_5.7_1600x1300 (Red)

| | Number of 2D Keypoints per Image | Number of Matched 2D Keypoints per Image |
|--------|----------------------------------|--|
| Median | 418 | 115 |
| Min | 372 | 92 |
| Max | 521 | 151 |
| Mean | 431 | 116 |

2D Keypoints Table for Camera FC6360_5.7_1600x1300 (Red edge)

| | Number of 2D Keypoints per Image | Number of Matched 2D Keypoints per Image |
|--------|----------------------------------|--|
| Median | 429 | 75 |
| Min | 398 | 0 |
| Max | 499 | 164 |
| Mean | 431 | 64 |

2D Keypoints Table for Camera FC6360_5.7_1600x1300 (NIR)

| | Number of 2D Keypoints per Image | Number of Matched 2D Keypoints per Image |
|--------|----------------------------------|--|
| Median | 488 | 64 |
| Min | 429 | 0 |
| Max | 534 | 218 |
| Mean | 479 | 78 |

2D Keypoints Table for Camera FC6360_5.7_1600x1300 (RGB)

| | Number of 2D Keypoints per Image | Number of Matched 2D Keypoints per Image |
|--------|----------------------------------|--|
| Median | 485 | 224 |
| Min | 355 | 124 |
| Max | 613 | 316 |
| Mean | 485 | 226 |

Median / 75%/ Maximal Number of Matches Between Camera Models

| | FC6360_5.7_160 (Blue) | FC6360_5.7_16 (Green) | FC6360_5.7_1600 (Red) | FC6360_5.7 (Red edge) | FC6360_5.7_1600 (NIR) | FC6360_5.7_1600 (RGB) |
|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| FC6360_5.7_1600x1300 (Blue) | 12/31/113 | 6/15/73 | 16/25/88 | (n/a) / (n/a) / 2 | | 5/11/61 |
| FC6360_5.7_1600x1300 (Green) | | 9/24/192 | 5/11/66 | 1/2/2 | | 7/18/111 |
| FC6360_5.7_1600x1300 (Red) | | | 11/23/63 | (n/a) / (n/a) / 2 | | 4/8/46 |
| FC6360_5.7_1600x1300 (Red edge) | | | | 5/15/130 | (n/a) / (n/a) / 17 | 1/2/2 |

| FC6360_5.7_1600x1300 (NIR) | | 3/27/183 | |
|-------------------------------|--|----------|-----------|
| FC6360_5.7_1600x1300 (RGB) | | | 14/33/193 |

? 3D Points from 2D Keypoint Matches

| | Number of 3D Points Observed |
|---------------------------|------------------------------|
| In 2 Images | 7505 |
| In 3 Images | 2787 |
| In 4 Images | 1512 |
| In 5 Images | 813 |
| In 6 Images | 577 |
| In 7 Images | 379 |
| In 8 Images | 301 |
| In 9 Images | 188 |
| In 10 Images | 165 |
| In 11 Images | 125 |
| In 12 Images | 109 |
| In 13 Images | 78 |
| In 14 Images | 94 |
| In 15 Images | 63 |
| In 16 Images | 57 |
| In 17 Images | 52 |
| In 18 Images | 42 |
| In 19 Images | 36 |
| In 20 Images | 35 |
| In 21 Images | 30 |
| In 22 Images | 27 |
| In 23 Images | 21 |
| In 24 Images | 27 |
| In 25 Images | 18 |
| | 14 |
| In 26 Images In 27 Images | 16 |
| | 17 |
| In 28 Images | 19 |
| In 29 Images In 30 Images | 17 |
| | 7 |
| In 31 Images | |
| In 32 Images | 8 |
| In 33 Images | 9 |
| In 34 Images | 8 |
| In 35 Images | 12 |
| In 36 Images | 9 |
| In 37 Images | 3 |
| In 38 Images | 4 |
| In 39 Images | 6 |
| In 40 Images | 6 |
| In 41 Images | 6 |
| In 42 Images | 4 |
| In 43 Images | 2 |
| In 44 Images | 6 |
| In 45 Images | 3 |
| In 46 Images | 2 |
| In 47 Images | 3 |
| In 48 Images | 2 |
| In 50 Images | 3 |
| In 51 Images | 2 |
| In 52 Images | 1 |
| In 53 Images | 1 |

| In 54 Images | 1 |
|--------------|---|
| In 55 Images | 3 |
| In 56 Images | 2 |
| In 58 Images | 1 |
| In 60 Images | 1 |
| In 62 Images | 1 |
| In 64 Images | 1 |
| In 66 Images | 1 |

2D Keypoint Matches



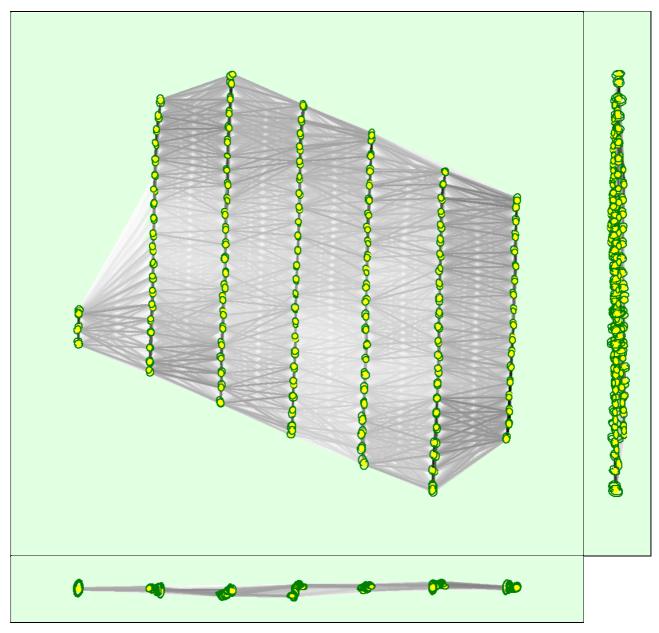


Figure 5: Computed image positions with links between matched images. The darkness of the links indicates the number of matched 2D keypoints between the images. Bright links indicate weak links and require manual tie points or more images. Dark green ellipses indicate the relative camera position uncertainty of the bundle block adjustment result.

Relative camera position and orientation uncertainties



| | X[m] | Y[m] | Z[m] | Omega [degree] | Phi [degree] | Kappa [degree] |
|-------|-------|-------|-------|----------------|--------------|----------------|
| Mean | 0.114 | 0.133 | 0.140 | 0.407 | 0.496 | 0.037 |
| Sigma | 0.017 | 0.022 | 0.053 | 0.236 | 0.291 | 0.005 |

Geolocation Details

1

Absolute Geolocation Variance

| Min Error [m] | Max Error [m] | Geolocation Error X[%] | Geolocation Error Y [%] | Geolocation Error Z [%] |
|---------------|---------------|------------------------|-------------------------|-------------------------|
| - | -3.49 | 0.00 | 0.00 | 0.00 |
| -3.49 | -2.79 | 0.00 | 0.00 | 0.00 |
| -2.79 | -2.09 | 0.00 | 0.00 | 0.00 |
| -2.09 | -1.39 | 0.00 | 1.93 | 1.45 |
| -1.39 | -0.70 | 0.00 | 9.06 | 17.39 |
| -0.70 | 0.00 | 57.00 | 36.11 | 32.97 |
| 0.00 | 0.70 | 42.87 | 44.69 | 36.59 |
| 0.70 | 1.39 | 0.12 | 7.37 | 8.57 |
| 1.39 | 2.09 | 0.00 | 0.12 | 1.57 |
| 2.09 | 2.79 | 0.00 | 0.72 | 1.45 |
| 2.79 | 3.49 | 0.00 | 0.00 | 0.00 |
| 3.49 | - | 0.00 | 0.00 | 0.00 |
| Mean [m] | | -0.012712 | -0.005821 | -0.022761 |
| Sigma [m] | | 0.235741 | 0.597340 | 0.680808 |
| RMS Error [m] | | 0.236083 | 0.597369 | 0.681189 |

Min Error and Max Error represent geolocation error intervals between -1.5 and 1.5 times the maximum accuracy of all the images. Columns X, Y, Z show the percentage of images with geolocation errors within the predefined error intervals. The geolocation error is the difference between the initial and computed image positions. Note that the image geolocation errors do not correspond to the accuracy of the observed 3D points.

Relative Geolocation Variance



| Relative Geolocation Error | Images X[%] | Images Y[%] | Images Z [%] |
|-----------------------------------|-------------|-------------|--------------|
| [-1.00, 1.00] | 100.00 | 95.17 | 99.28 |
| [-2.00, 2.00] | 100.00 | 99.88 | 100.00 |
| [-3.00, 3.00] | 100.00 | 100.00 | 100.00 |
| Mean of Geolocation Accuracy [m] | 1.194137 | 1.194137 | 2.232923 |
| Sigma of Geolocation Accuracy [m] | 0.020737 | 0.020737 | 0.032485 |

Images X, Y, Z represent the percentage of images with a relative geolocation error in X, Y, Z.

| Geolocation Orientational Variance | RMS [degree] |
|------------------------------------|--------------|
| Omega | 1.011 |
| Phi | 1.145 |
| Карра | 1.640 |

Geolocation RMS error of the orientation angles given by the difference between the initial and computed image orientation angles.

Initial Processing Details



System Information

| Hardware | CPU: Intel(R) Core(TM) i7 CPU 870 @ 2.93GHz RAMt 12GB GPU: Radeon RX 580 Series (Driver: 26.20.15019.19000) |
|------------------|---|
| Operating System | Windows 10 Pro, 64-bit |



| Image Coordinate System | WGS 84 |
|--------------------------|----------------------|
| Output Coordinate System | WGS 84 / UTMzone 33N |

Processing Options

| | _ | |
|---|---|--|
| 1 | | |
| | • | |
| ٦ | | |
| | | |

| Detected Template | No Template Available |
|--------------------------------|--|
| Keypoints Image Scale | Rapid, Image Scale: 0.25 |
| Advanced: Matching Image Pairs | Aerial Grid or Corridor |
| Advanced: Matching Strategy | Use Geometrically Verified Matching: no |
| Advanced: Keypoint Extraction | Targeted Number of Keypoints: Automatic |
| Advanced: Calibration | Calibration Method: Standard Internal Parameters Optimization: All External Parameters Optimization: All Rematch: Auto, no |
| Rig «FC6360» processing | optimize relative rotation using a subset of secondary cameras |

Point Cloud Densification details



Processing Options

a

| Image Scale | multiscale, 1/2 (Halfimage size, Default) |
|--------------------------------------|---|
| Point Density | Low (Fast) |
| Minimum Number of Matches | 3 |
| 3D Textured Mesh Generation | yes |
| 3D Textured Mesh Settings: | Resolution: Medium Resolution (default) Color Balancing: no |
| LOD | Generated: no |
| Advanced: 3D Textured Mesh Settings | Sample Density Divider: 1 |
| Advanced: Image Groups | Blue, Green, Red, Red edge, NIR, group1 |
| Advanced: Use Processing Area | yes |
| Advanced: Use Annotations | yes |
| Time for Point Cloud Densification | 02m:49s |
| Time for Point Cloud Classification | NA |
| Time for 3D Textured Mesh Generation | 04m:20s |

Results



| Number of Processed Clusters | 2 |
|---------------------------------------|--------|
| Number of Generated Tiles | 2 |
| Number of 3D Densified Points | 663522 |
| Average Density (per m ³) | 78.39 |

DSM, Orthomosaic and Index Details



Processing Options



| DSMand Orthomosaic Resolution | 1 x GSD (2.36 [cm/pixel]) |
|---------------------------------|---|
| DSMFilters | Noise Filtering: yes Surface Smoothing: yes, Type: Sharp |
| Orthomosaic | Generated: yes Merge Tiles: no GeoTIFF Without Transparency: no Google Maps Tiles and KML: no |
| Time for DSM Generation | 00s |
| Time for Orthomosaic Generation | 27m:31s |
| Time for DTM Generation | 00s |

| Time for Contour Lines Generation | 00s |
|-------------------------------------|-----|
| Time for Reflectance Map Generation | 00s |
| Time for Index Map Generation | 00s |

Camera Radiometric Correction

| - | | ` |
|---|---|----|
| | • | -1 |
| | | |

| Camera Name | Band | Radiometric Correction Type | Reflectance target |
|----------------------|----------------------|-----------------------------|--------------------|
| FC6360_5.7_1600x1300 | Blue | Camera and Sun Irradiance | n/a |
| FC6360_5.7_1600x1300 | Green | Camera and Sun Irradiance | n/a |
| FC6360_5.7_1600x1300 | Red | Camera and Sun Irradiance | n/a |
| FC6360_5.7_1600x1300 | Red edge | Camera and Sun Irradiance | n/a |
| FC6360_5.7_1600x1300 | NIR | Camera and Sun Irradiance | n/a |
| FC6360_5.7_1600x1300 | Red Green Blue | No Correction | n/a |