

I. Settings**A. Positioning/georeferencing:**

- Positioning mode: Use control points for adjustment

B. Main settings:

- Key point density: Normal
 - Pair selection mode: Default
 - Component construction mode: OnePass

C. Estimation policies:

- Tie points: Compute
 - Position: Compute
 - Rotation: Compute
 - Photogroup estimation mode: OnePass
 - Focal length: Adjust
 - Principal point: Adjust
 - Radial distortion: Adjust
 - Tangential distortion: Keep

II. Results**A. Global:**

- Errors

Type	Before aerotriangulation							After aerotriangulation						
	Number of points	Median reprojection error [px]	RMS of reprojection errors [px]	RMS of distances to rays [m]	RMS of 3D errors [m]	RMS of horizontal errors [m]	RMS of vertical errors [m]	Number of points	Median reprojection error [px]	RMS of reprojection errors [px]	RMS of distances to rays [m]	RMS of 3D errors [m]	RMS of horizontal errors [m]	RMS of vertical errors [m]
Control_points	5							5	0.15	0.12	0.006	0.006	0.006	0.001
Automatic_tie_points	0							10501	0.72	0.88	0.044			

NB: Horizontal and vertical errors are given according to the following spatial reference system: WGS84

- Connections

		Before aerotriangulation	After aerotriangulation
Number of tested pairs	Median number of tested pairs per photo	Median number of connected photos per photo	Median number of connected photos per photo
492	25	22	36

B. Per photo:

- Control points

Photo		Before aerotriangulation			After aerotriangulation		
Photogroup	File name	Number of points	RMS of reprojection errors [px]	RMS of distances to rays [m]	Number of points	RMS of reprojection errors [px]	RMS of distances to rays [m]
Photogroup_1	DJI_0340.JPG	0			1	0.03	0.002
Photogroup_1	DJI_0341.JPG	0			1	0.04	0.002

Photogroup_1	DJI_0343.JPG	0			2	0.17	0.009
Photogroup_1	DJI_0344.JPG	0			2	0.13	0.007
Photogroup_1	DJI_0345.JPG	0			2	0.14	0.007
Photogroup_1	DJI_0346.JPG	0			2	0.19	0.010
Photogroup_1	DJI_0347.JPG	0			2	0.18	0.009
Photogroup_1	DJI_0348.JPG	0			2	0.17	0.009
Photogroup_1	DJI_0349.JPG	0			2	0.20	0.010
Photogroup_1	DJI_0350.JPG	0			2	0.21	0.011
Photogroup_1	DJI_0351.JPG	0			2	0.14	0.007
Photogroup_1	DJI_0352.JPG	0			2	0.15	0.007
Photogroup_1	DJI_0353.JPG	0			2	0.12	0.006
Photogroup_1	DJI_0354.JPG	0			2	0.09	0.004
Photogroup_1	DJI_0355.JPG	0			1	0.05	0.002
Photogroup_1	DJI_0356.JPG	0			1	0.03	0.001
Photogroup_1	DJI_0357.JPG	0			2	0.10	0.005
Photogroup_1	DJI_0358.JPG	0			2	0.14	0.007
Photogroup_1	DJI_0359.JPG	0			2	0.11	0.006
Photogroup_1	DJI_0360.JPG	0			2	0.18	0.009
Photogroup_1	DJI_0361.JPG	0			2	0.19	0.010
Photogroup_1	DJI_0362.JPG	0			2	0.22	0.011
Photogroup_1	DJI_0363.JPG	0			2	0.20	0.010
Photogroup_1	DJI_0364.JPG	0			1	0.19	0.009
Photogroup_1	DJI_0365.JPG	0			1	0.18	0.009
Photogroup_1	DJI_0366.JPG	0			1	0.18	0.009
Photogroup_1	DJI_0367.JPG	0			1	0.17	0.009
Photogroup_1	DJI_0368.JPG	0			1	0.15	0.008
Photogroup_1	DJI_0371.JPG	0			1	0.04	0.002
Photogroup_1	DJI_0372.JPG	0			1	0.07	0.004
Photogroup_1	DJI_0373.JPG	0			1	0.06	0.003
Photogroup_1	DJI_0374.JPG	0			2	0.07	0.004
Photogroup_1	DJI_0375.JPG	0			2	0.06	0.003
Photogroup_1	DJI_0376.JPG	0			1	0.06	0.003
Photogroup_1	DJI_0377.JPG	0			1	0.07	0.004

- Automatic tie points

Photo			Before aerotriangulation			After aerotriangulation		
Photogroup	File name	Number of key points	Number of points	RMS of reprojection errors [px]	RMS of distances to rays [m]	Number of points	RMS of reprojection errors [px]	RMS of distances to rays [m]

Photogroup_1	DJI_0340.JPG	8408	0			1728	0.81	0.039
Photogroup_1	DJI_0341.JPG	8676	0			1773	0.90	0.045
Photogroup_1	DJI_0342.JPG	8899	0			1692	0.96	0.048
Photogroup_1	DJI_0343.JPG	8383	0			1335	1.18	0.061
Photogroup_1	DJI_0344.JPG	7133	0			1267	0.95	0.048
Photogroup_1	DJI_0345.JPG	6470	0			1119	0.89	0.044
Photogroup_1	DJI_0346.JPG	6258	0			967	0.92	0.046
Photogroup_1	DJI_0347.JPG	6714	0			801	0.82	0.040
Photogroup_1	DJI_0348.JPG	6362	0			1002	1.04	0.050
Photogroup_1	DJI_0349.JPG	5627	0			1066	0.87	0.043
Photogroup_1	DJI_0350.JPG	6581	0			1140	1.04	0.052
Photogroup_1	DJI_0351.JPG	7423	0			1287	1.01	0.051
Photogroup_1	DJI_0352.JPG	8079	0			1494	0.92	0.046
Photogroup_1	DJI_0353.JPG	8651	0			1782	0.98	0.048
Photogroup_1	DJI_0354.JPG	8718	0			1977	1.10	0.054
Photogroup_1	DJI_0355.JPG	8652	0			2044	0.96	0.046
Photogroup_1	DJI_0356.JPG	9127	0			2015	0.85	0.041
Photogroup_1	DJI_0357.JPG	8182	0			1624	0.87	0.042
Photogroup_1	DJI_0358.JPG	7418	0			1169	0.90	0.044
Photogroup_1	DJI_0359.JPG	6787	0			981	0.95	0.048
Photogroup_1	DJI_0360.JPG	6549	0			1055	0.96	0.049
Photogroup_1	DJI_0361.JPG	6523	0			1213	0.99	0.050
Photogroup_1	DJI_0362.JPG	6011	0			1080	0.98	0.050
Photogroup_1	DJI_0363.JPG	5884	0			1118	0.89	0.046
Photogroup_1	DJI_0364.JPG	5571	0			1213	0.75	0.038
Photogroup_1	DJI_0365.JPG	5671	0			1223	0.90	0.047
Photogroup_1	DJI_0366.JPG	5484	0			1073	0.89	0.046
Photogroup_1	DJI_0367.JPG	6325	0			1212	0.89	0.045
Photogroup_1	DJI_0368.JPG	6481	0			1317	0.86	0.043
Photogroup_1	DJI_0369.JPG	7162	0			1822	0.74	0.036
Photogroup_1	DJI_0370.JPG	7378	0			1929	0.71	0.035
Photogroup_1	DJI_0371.JPG	6171	0			1453	0.67	0.034
Photogroup_1	DJI_0372.JPG	5968	0			1364	0.94	0.048
Photogroup_1	DJI_0373.JPG	6039	0			1309	0.95	0.048
Photogroup_1	DJI_0374.JPG	6013	0			1402	0.90	0.046
Photogroup_1	DJI_0375.JPG	5864	0			1421	0.78	0.040
Photogroup_1	DJI_0376.JPG	5178	0			1242	0.71	0.037
Photogroup_1	DJI_0377.JPG	5279	0			1089	0.71	0.037

- Connections

Photo			Before aerotriangulation	After aerotriangulation
Photogroup	File name	Number of tested pairs	Number of connected photos	Number of connected photos
Photogroup_1	DJI_0340.JPG	20	5	25
Photogroup_1	DJI_0341.JPG	21	5	29
Photogroup_1	DJI_0342.JPG	25	0	35
Photogroup_1	DJI_0343.JPG	30	23	36
Photogroup_1	DJI_0344.JPG	29	23	36
Photogroup_1	DJI_0345.JPG	25	23	37
Photogroup_1	DJI_0346.JPG	24	23	36
Photogroup_1	DJI_0347.JPG	25	23	30
Photogroup_1	DJI_0348.JPG	24	23	33
Photogroup_1	DJI_0349.JPG	24	23	36
Photogroup_1	DJI_0350.JPG	24	23	37
Photogroup_1	DJI_0351.JPG	28	23	37
Photogroup_1	DJI_0352.JPG	30	23	36
Photogroup_1	DJI_0353.JPG	31	23	37
Photogroup_1	DJI_0354.JPG	28	22	34
Photogroup_1	DJI_0355.JPG	20	5	32
Photogroup_1	DJI_0356.JPG	23	5	35
Photogroup_1	DJI_0357.JPG	33	22	37
Photogroup_1	DJI_0358.JPG	36	23	37
Photogroup_1	DJI_0359.JPG	37	23	37
Photogroup_1	DJI_0360.JPG	31	23	37
Photogroup_1	DJI_0361.JPG	28	23	37
Photogroup_1	DJI_0362.JPG	26	23	36
Photogroup_1	DJI_0363.JPG	26	23	35
Photogroup_1	DJI_0364.JPG	25	21	35
Photogroup_1	DJI_0365.JPG	27	21	35
Photogroup_1	DJI_0366.JPG	33	21	37
Photogroup_1	DJI_0367.JPG	36	21	37
Photogroup_1	DJI_0368.JPG	37	21	37
Photogroup_1	DJI_0369.JPG	26	0	37
Photogroup_1	DJI_0370.JPG	21	0	35
Photogroup_1	DJI_0371.JPG	21	4	33
Photogroup_1	DJI_0372.JPG	16	4	35
Photogroup_1	DJI_0373.JPG	18	4	37

Photogroup_1	DJI_0374.JPG	20	6	34
Photogroup_1	DJI_0375.JPG	22	6	33
Photogroup_1	DJI_0376.JPG	20	3	32
Photogroup_1	DJI_0377.JPG	14	3	30

C. Per point:

- Control points:

					Before aerotriangulation						After aerotriangulation					
Name	Category	Check point	Horizontal accuracy [m]	Vertical accuracy [m]	Number of photos	RMS of reprojection errors [px]	RMS of distances to rays [m]	RMS of 3D errors [m]	RMS of horizontal errors [m]	RMS of vertical errors [m]	Number of photos	RMS of reprojection errors [px]	RMS of distances to rays [m]	RMS of 3D errors [m]	RMS of horizontal errors [m]	RMS of vertical errors [m]
T1	Full		0.010	0.010	4						4	0.07	0.004	0.004	0.004	-0.000
T2	Full		0.010	0.010	5						5	0.06	0.003	0.003	0.003	-0.000
T3	Full		0.010	0.010	19						19	0.16	0.008	0.008	0.008	-0.002
T4	Full		0.010	0.010	22						22	0.18	0.009	0.009	0.009	0.002
T5	Full		0.010	0.010	6						6	0.04	0.002	0.002	0.002	0.001

NB: Horizontal and vertical errors are given according to each control point respective spatial reference system

- Automatic tie points:

		Before aerotriangulation				After aerotriangulation				
Median number of key points per photo	Number of points	Median number of photos per point	Median number of points per photo	RMS of reprojection errors [px]	RMS of distances to rays [m]	Number of points	Median number of photos per point	Median number of points per photo	RMS of reprojection errors [px]	RMS of distances to rays [m]
6549	0		0			10501	4	1287	0.88	0.044