



- Geotechnologies
- Geoinformatics
- Services

## **Calibration Report:**

**Camera:** PhaseOne iXM-RS 150F (SN: MM010245)  
**Sensor Resolution:** x 14204 \* y 10652 (150 MP)  
**Pixel Size:** 3.76 µm  
**Filter:** None  
**Lens:** Rodenstock RS 50/Aerial (SN: 12571388)  
**Distance setting:** infinity  
**Calibration Area :** Sant Andreu de la Barca/ Spain  
**GSD:** 7.8 cm  
**Date of Mission:** 19.7.2023  
**Date of Calibration:** 17.3.2024  
**Calibration Place:** Wissembourg / France  
**Performed with:** Photomesh/Metashape/Bingo  
**Calibration approved by:** Dr. Gerhard Kemper

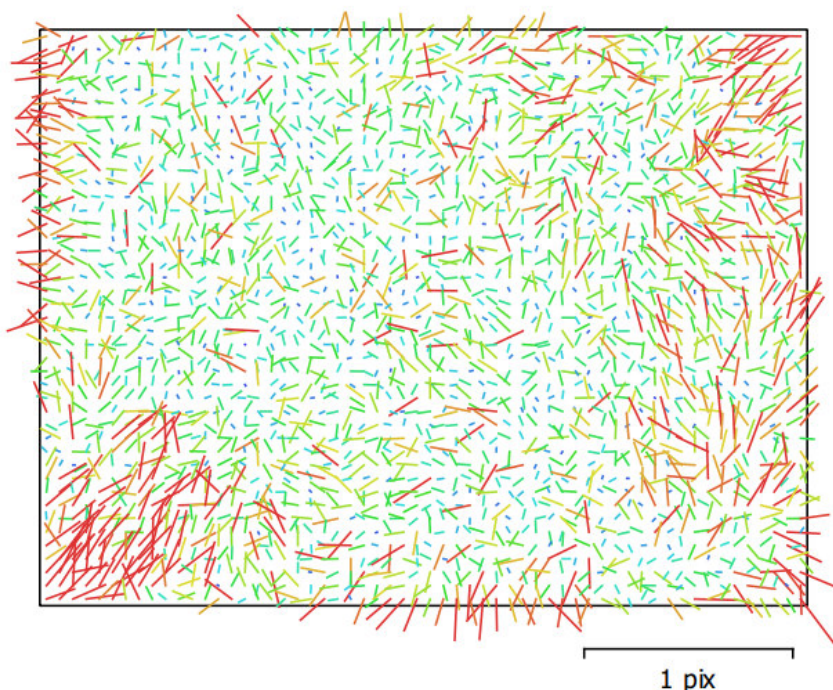
Calibration calculated with 78 Images and using 28 GCPs in Australis Format.

Camera Variable	Initial Value	Total Adjustment	Final Value	Initial Std. Error	Final Std. Error
C	50.000	0.00000	51.6825	1.0e+003	0.0002 (mm)
XP	0.000	0.00000	0.0156	1.0e+003	0.0002 (mm)
YP	0.000	0.00000	-0.0795	1.0e+003	0.0002 (mm)
K1	0	0.000e-000	1.54063e-05	1.0e+003	1.36038e-08
K2	0	0.000e-000	-5.13238e-09	1.0e+003	2.84667e-11
K3	0	0.000e-000	6.33062e-13	1.0e+003	1.77804e-14
P1	0	0.000e-000	-2.24736e-06	1.0e+003	2.53424e-08
P2	0	0.000e-000	1.21606e-06	1.0e+003	2.05772e-08
B1	0	0.000e-000	-3.72827e-05	1.0e+003	6.99660e-07
B2	0	0.000e-000	5.54068e-06	1.0e+003	6.67473e-07

Maximum Observational Radial Distance Encountered: 33.378 mm

	Value	Error	F	Cx	Cy	B1	B2	K1	K2	K3	K4	P1	P2
<b>F</b>	<b>13745.6</b>	0.049	1.00	-0.00	-0.01	-0.12	-0.00	-0.71	0.65	-0.59	0.54	0.00	0.00
<b>Cx</b>	<b>4.1571</b>	0.061		1.00	0.01	0.03	0.10	0.00	-0.00	0.01	-0.01	0.84	-0.01
<b>Cy</b>	<b>21.1554</b>	0.049			1.00	-0.14	0.04	0.00	-0.00	0.00	-0.01	-0.00	0.73
<b>B1</b>	<b>0.504763</b>	0.0096				1.00	0.00	0.05	-0.05	0.05	-0.04	0.05	-0.06
<b>B2</b>	<b>0.0756993</b>	0.0092					1.00	0.00	-0.00	0.00	-0.00	0.01	0.06
<b>K1</b>	<b>-0.0417052</b>	7.5e-05						1.00	-0.98	0.93	-0.89	-0.00	-0.01
<b>K2</b>	<b>0.0467988</b>	0.00068							1.00	-0.99	0.96	0.00	0.01
<b>K3</b>	<b>-0.0420377</b>	0.0024								1.00	-0.99	0.00	-0.01
<b>K4</b>	<b>0.0306129</b>	0.0029									1.00	-0.00	0.01
<b>P1</b>	<b>0.000111448</b>	1.4e-06										1.00	-0.01
<b>P2</b>	<b>6.04641e-05</b>	1.1e-06											1.00

Calibration Coefficient and correlation matrix



Final residual plot

  
Dr. Gerhard Kemper / GGS GmbH

