

CAMERA CALIBRATION REPORT

PROJECT DETAILS

Camera: PhaseOne iXM-100 SK 110
Serialnumber: 00198
View direction: Nadir
Calibration Date: 25.07.2019

METRIC CALIBRATION PARAMETERS

Resolution: 11664 x 8750 pixels
Pixel width: 0.0038mm
Pixel height: 0.0038mm

Internal Geometry

Focal length: 109.4781mm
Principal point offset in x-image coordinate x_p : -0.0165mm
Principal point offset in y-image coordinate y_p : 0.2082mm

Distortion

1st-order term of radial distortion correction K_0 : 0
3rd-order term of radial distortion correction K_1 : 4.820863e-06
5th-order term of radial distortion correction K_2 : 6.295081e-10
7th-order term of radial distortion correction K_3 : -1.509326e-12

Coefficient of decentering distortion P_1 : -3.308659E-06
Coefficient of decentering distortion P_2 : 5.015384E-07

CAMERA CALIBRATION REPORT

PROJECT DETAILS

Camera: PhaseOne iXM-100 SK 150
Serialnumber: 00222
View direction: left (links)
Calibration Date: 17.02.2020

METRIC CALIBRATION PARAMETERS

Resolution: 11664 x 8750 pixels
Pixel width: 0.0038mm
Pixel height: 0.0038mm

Internal Geometry

Focal length: 147.6819mm (+- 0.2478 μ m)
Principal point offset in x-image coordinate x_p : -0.1709mm (+- 1.2159 μ m)
Principal point offset in y-image coordinate y_p : -0.0430mm (+- 1.5136 μ m)

Distortion

1st-order term of radial distortion correction K_0 : 0
3rd-order term of radial distortion correction K_1 : 1.03388e-05 (+- 1.4e-08)
5th-order term of radial distortion correction K_2 : 1.50369e-09 (+- 4.4e-11)
7th-order term of radial distortion correction K_3 : -1.26511e-12 (+- 4.2e-14)

Coefficient of decentering distortion P_1 : -4.64108e-06 (+- 3.4e-08)
Coefficient of decentering distortion P_2 : -6.23574e-07 (+- 4.2e-08)

Boresight misalignment

Omega: 44.6598deg
Phi: 0.8982deg
Kappa: 1.0699deg
Roll: 44.6668deg
Pitch: -0.1132deg
Yaw: 1.3923deg

CAMERA CALIBRATION REPORT

PROJECT DETAILS

Camera: PhaseOne iXM-100 SK 150
Serialnumber: 00205
View direction: right (rechts)
Calibration Date: 17.02.2020

METRIC CALIBRATION PARAMETERS

Resolution: 11664 x 8750 pixels
Pixel width: 0.0038mm
Pixel height: 0.0038mm

Internal Geometry

Focal length: 147.8002mm (+- 0.2653 μ m)
Principal point offset in x-image coordinate x_p : 0.1263mm (+- 1.2388 μ m)
Principal point offset in y-image coordinate y_p : 0.0610mm (+- 1.5462 μ m)

Distortion

1st-order term of radial distortion correction K_0 : 0
3rd-order term of radial distortion correction K_1 : 1.96567e-05 (+- 1.6e-08)
5th-order term of radial distortion correction K_2 : -2.45141e-08 (+- 5.0e-11)
7th-order term of radial distortion correction K_3 : 2.03322e-11 (+- 4.7e-14)

Coefficient of decentering distortion P_1 : 9.86308e-06 (+- 3.5e-08)
Coefficient of decentering distortion P_2 : 2.90113e-06 (+- 4.3e-08)

Boresight misalignment

Omega: -44.2047deg
Phi: -1.0360deg
Kappa: 0.7807deg
Roll: -44.2139deg
Pitch: -0.1983deg
Yaw: 1.2820deg

CAMERA CALIBRATION REPORT

PROJECT DETAILS

Camera: PhaseOne iXM-100 SK 150
Serialnumber: 00200
View direction: backward (rückwärts)
Calibration Date: 17.02.2020

METRIC CALIBRATION PARAMETERS

Resolution: 11664 x 8750 pixels
Pixel width: 0.0038mm
Pixel height: 0.0038mm

Internal Geometry

Focal length: 147.7389mm (+- 0.2476μm)
Principal point offset in x-image coordinate x_p : 0.0663mm (+- 1.2057μm)
Principal point offset in y-image coordinate y_p : 0.1727mm (+- 1.5958μm)

Distortion

1st-order term of radial distortion correction K_0 : 0
3rd-order term of radial distortion correction K_1 : 9.90051e-06 (+- 1.5e-08)
5th-order term of radial distortion correction K_2 : 2.99347e-09 (+- 4.5e-11)
7th-order term of radial distortion correction K_3 : -2.71470e-12 (+- 4.3e-14)

Coefficient of decentering distortion P_1 : 2.69590e-06 (+- 3.3e-08)
Coefficient of decentering distortion P_2 : 1.70653e-06 (+- 4.5e-08)

Boresight misalignment

Omega: -1.4046deg
Phi: 43.6371deg
Kappa: 1.9589deg
Roll: -0.0726deg
Pitch: 43.6551deg
Yaw: 1.3674deg

CAMERA CALIBRATION REPORT

PROJECT DETAILS

Camera: PhaseOne iXM-100 SK 150
Serialnumber: 00204
View direction: foreward (vorwärts)
Calibration Date: 17.02.2020

METRIC CALIBRATION PARAMETERS

Resolution: 11664 x 8750 pixels
Pixel width: 0.0038mm
Pixel height: 0.0038mm

Internal Geometry

Focal length: 147.9823mm (+- 0.2450 μ m)
Principal point offset in x-image coordinate x_p : -0.1128mm (+- 1.2024 μ m)
Principal point offset in y-image coordinate y_p : -0.0451mm (+- 1.5950 μ m)

Distortion

1st-order term of radial distortion correction K_0 : 0
3rd-order term of radial distortion correction K_1 : 1.02999e-05 (+- 1.4e-08)
5th-order term of radial distortion correction K_2 : 1.09680e-09 (+- 4.5e-11)
7th-order term of radial distortion correction K_3 : -1.00332e-12 (+- 4.2e-14)

Coefficient of decentering distortion P_1 : -4.22298e-06 (+- 3.3e-08)
Coefficient of decentering distortion P_2 : -4.75003e-06 (+- 4.4e-08)

Boresight misalignment

Omega: 2.3907deg
Phi: -44.1515deg
Kappa: 3.0908deg
Roll: 0.3299deg
Pitch: -44.2018deg
Yaw: 1.9871deg