

Geometric Calibration Report

Performed at 15:48 on Wednesday, August 13, 2008 by User.

Scanner Serial Number: 151926
 PhotoScan version: 4.4.1.15
 Firmware revision: 5.40

CCD Angle (radians) : 0.001000
 CCD Angle (degrees) : 0.057299

Width across all CCDs (microns) : 39421.000000
 Size of one CCD (microns) : 6.999467

Intersections read from: C:\Program
 Files\PhotoScan\CalibFiles\25NominalPoints.dat
 Title: # Calibration plate: Using all 25 nominal points (in BEST order)

Status #	Calibrated		Observed		Residuals		
	X (mm)	Y (mm)	X (mm)	Y (mm)	X (um)	Y (um)	
SM	1	0.000	200.000	1.905	199.931	-0.931	0.625
SM	2	0.000	150.000	2.029	149.930	-0.059	0.171
SM	3	0.000	100.000	2.152	99.928	0.089	-1.570
SM	4	0.000	50.000	2.274	49.929	-0.394	-0.594
SM	5	0.000	0.000	2.397	-0.070	-0.437	1.591
SM	6	50.000	200.000	51.909	200.070	0.334	0.335
SM	7	50.000	150.000	52.032	150.070	-0.201	0.448
SM	8	50.000	100.000	52.154	100.067	-0.473	-1.980
SM	9	50.000	50.000	52.278	50.068	0.787	-0.848
SM	10	50.000	0.000	52.401	0.070	1.109	1.546
SM	11	100.000	200.000	101.912	200.210	0.433	0.666
SM	12	100.000	150.000	102.034	150.210	-0.527	1.077
SM	13	100.000	100.000	102.157	100.208	-0.246	-1.406
SM	14	100.000	50.000	102.281	50.208	1.001	-0.521
SM	15	100.000	0.000	102.405	0.209	1.554	1.103
SM	16	150.000	200.000	151.915	200.350	-0.111	0.415
SM	17	150.000	150.000	152.036	150.350	-0.953	0.905
SM *	18	150.000	100.000	152.160	100.347	-0.759	-1.964
SM	19	150.000	50.000	152.283	50.347	-0.000	-1.274
SM	20	150.000	0.000	152.406	0.349	-0.347	0.689
SM	21	200.000	200.000	201.919	200.489	1.853	0.351
SM	22	200.000	150.000	202.041	150.490	0.350	0.903
SM	23	200.000	100.000	202.163	100.487	-0.271	-1.213
SM	24	200.000	50.000	202.286	50.488	-0.214	-0.575
SM	25	200.000	0.000	202.407	0.489	-1.586	1.121

1.0036601678 = Standard Deviation (sigma)
 0.7958324670 = Root Mean Square X
 1.1015576216 = Root Mean Square Y
 0.9999400436 = Scale X
 0.9999902746 = Scale Y
 -0.0194111582 = Non-orthogonality (degrees)

$$x = 1.0000591210 * X + 0.0013389188 * Y + 0.0 \text{ (microns)}$$

$$y = -0.0010000599 * X + 1.0000092828 * Y + 5000.0 \text{ (microns)}$$

 Notes:

This file is rewritten every time a point is measured, withheld, or reinstated whether or not the resulting calibration is downloaded to the scanner.

Original Filename:

C:\PROGRA~1\PHOTOS~1\CalibFiles\GeoCalibReport_151926_13August2008.txt