View Help

Undo | Redo | Stop | Details

Auto Functions | Service/Factory

Applications

- AutoSTEM
- AutoCTF
- APM
- Energy Filter
- Align Genie

Controls

Zero Loss

Center

Isochromaticity

Measure | Tune

Geometric and Chromatic Distortions

Measure Geometric Distortions

Measure Chromatic Distortions

Tune Magnification

Tune Distortions

Sequence

Settings

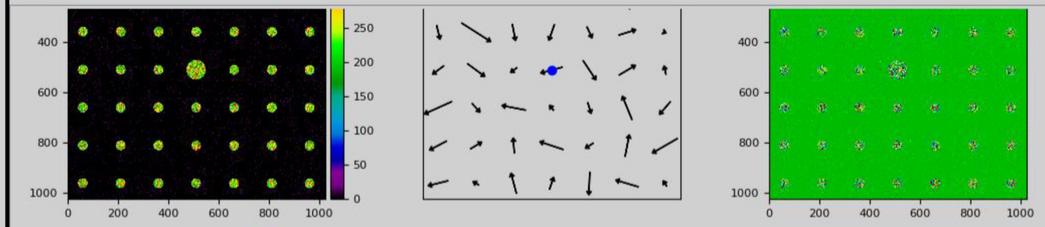
Acquisition Settings

Camera	EF-Falcon
Binning	4
Exposure time [s]	0.2
Electron counting	☑

Set Default Settings

Save to File

Results



Max. distortion	0.06 %	[spec: 0.10%]
RMS distortion	0.03 %	
Magnification	10.65 (0.07°)	
Image stretch	0.02 % (39.05°)	
Max. chromatic distortion (ΔHT=±25V)	0.06 %	[spec: 0.20%]
RMS chromatic distortion (ΔHT=±25V)	0.03 %	

Chromatic shift	0.06% →	0.03% →	0.03% →	0.02% →	0.01%
Image shift	1.09% →	0.01% →	0.07% →	0.05% →	0.04%
Magnification	99.99% →	100.01% →	100.00% →	100.00% →	100.00%
Image stretch	0.00% →	0.02% →	0.06% →	0.02% →	0.02%
2nd order symmetric distortion	0.01% →	0.01% →	0.01% →	0.00% →	0.02%
2nd order a-symmetric distortion	0.02% →	0.02% →	0.02% →	0.01% →	0.02%
2nd order symmetric chromatic distortion	0.02% →	0.05% →	0.00% →	0.02% →	0.01%
2nd order a-symmetric chromatic distortion	0.01% →	0.02% →	0.01% →	0.01% →	0.01%
3rd order symmetric distortion	0.05% →	0.02% →	0.02% →	0.02% →	0.02%
3rd order a-symmetric distortion	0.02% →	0.01% →	0.02% →	0.02% →	0.03%

Optics within limits in 4 steps

Distortions

U00 = -0.03% , -0.03%	U10 = 99.99% , 0.09%	U20 = -0.01% , 0.01%	U30 = 0.01% , 0.01%
	U01 = -0.12% , 100.01%	U11 = -0.00% , 0.01%	U21 = -0.02% , 0.00%
		U02 = -0.01% , -0.01%	U12 = 0.00% , 0.01%
			U03 = 0.01% , -0.02%

Max. distortion	0.06 %	[spec: 0.10%]
RMS distortion	0.03 %	
Magnification	10.65 (0.07°)	
Image stretch	0.02 % (39.05°)	
Max. chromatic distortion (ΔHT=±25V)	0.06 %	[spec: 0.20%]
RMS chromatic distortion (ΔHT=±25V)	0.03 %	

Logging

```
RMS Chromatic Distortion (dHT=±25V):    0.03%
=================== End of geometric and chromatic distortions tuning =====================

2021-10-07 22:32:22: Tune Distortions finished
Tune Distortions finished
```

Completed