



GreenBeadsIMG4R - Multiple Bead Image Summary

Microscope info:

| Image | | Image2 | | | | |
|--------------------|----------------------|-------------------------|----------|------------|-------------------|------------------|
| image's creation | date | 2024-10-17 10:22:16 | | | | |
| | method used | from file creation date | | | | |
| Actual image depth | | 16 | | | | |
| Microscope type | | WideField | | | | |
| Objective | NA | 1.4 | | | | |
| | im. refractive index | 1.518 | | | | |
| Channel(s) | | Wavelengths | | Saturation | sampling (X,Y,Z) | |
| | | Ex. (nm) | Em. (nm) | | Nyquist (μm) | Found (μm) |
| Channel 0 | | | 440.0 | none | 0.079x0.079x0.236 | 0.063x0.063x0.06 |
| | | | | | | 0.8, 0.8, 0.3 |

Warnings:

(All channels sampled following Shannon-Nyquist criterion).

(A subresolution bead is used for all channels).

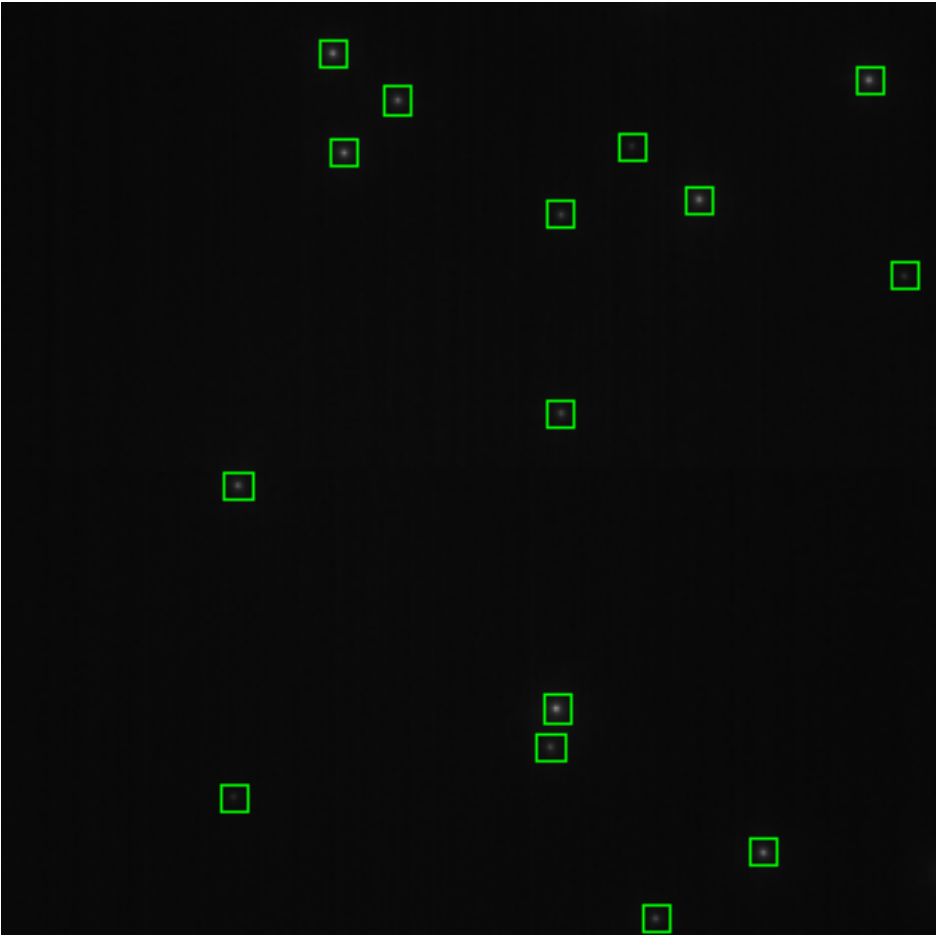
Analysis parameters

| | | |
|---------------------------------|--|--|
| Tool & Operator | Tool | Batch PSF Profiler |
| | Versions | MetroloJ_QC v1.3.0, ImageJ v2.14.0/1.54f, Java v1.8.0_322, OS Mac OS X |
| | Operator & date | aaa, October 20, 2024 9:10 AM |
| data | result folder | /Users/bumozaza/Desktop/Zeiss WFM/green/ |
| | Type of saved data | .pdf, .jpg, .xls |
| | Input data bit depth | 16 |
| Dimension order | | XY-(C)Z |
| Discard saturated samples | | true |
| Beads | Bead detection threshold | Legacy |
| | Center detection method | Centroid |
| | Discard bead if more than one particle are thresholded | true |
| | Background annulus thickness in μm | 0.5 |
| | Background annulus distance to bead edges in μm | 0.5 |
| | Multiple beads in image | true |
| | Bead identification method | Using Find Maxima (prominence of 1000.0) |
| | Bead size (μm) | 0.1 |
| | Bead crop Factor | 10.0 |
| | Cropped ROI size in μm | 2.31x2.31 (using bead size & background annulus parameters) |
| Square Root PSF Image displayed | | true |
| Tolerance | Applied in this report | true |
| | X & Y FWHM ratios valid if below | 1.5 |
| | Z FWHM ratio valid if below | 2.0 |
| Measurement rejected | Outliers | false |
| | R2 ratio below | 0.95 |

Analysis log

| image name | creation date | sampling density | identified raw beads | valid beads | saturation | status |
|------------|---------------------|------------------|----------------------|-------------|------------|-------------------|
| Image 2 | 2024-10-17 10:22:16 | correct | 15 | 15 | none | valid beads found |
| | | | | bead0 | none | analysed |
| | | | | bead1 | none | analysed |
| | | | | bead2 | none | analysed |
| | | | | bead3 | none | analysed |
| | | | | bead4 | none | analysed |
| | | | | bead5 | none | analysed |
| | | | | bead6 | none | analysed |
| | | | | bead7 | none | analysed |
| | | | | bead8 | none | analysed |
| | | | | bead9 | none | analysed |
| | | | | bead10 | none | analysed |
| | | | | bead11 | none | analysed |
| | | | | bead12 | none | analysed |
| | | | | bead13 | none | analysed |
| | | | | bead14 | none | analysed |

Identified beads



green: valid bead, yellow: too close to another bead, magenta: too close to stack's top or bottom, cyan: too close to the image's edges.