

Table S1: Parameters used to generate the PALM data set described at the beginning of the Results section of this paper.

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|--|------------------------|
| Readout laser power | 30 mW |
| Readout laser full width at half maximum | 50 μm |
| Readout laser wavelength | 561 nm |
| Laser polarization | Circular |
| Objective numerical aperture | 1.49 |
| Immersion oil index | 1.51 |
| Detection efficiency | 4% |
| Detector Gain | 30 counts/photon |
| Pixel Size | 100 \times 100 nm |
| Dark noise | 2 photons/pixel/frame |
| Auto fluorescence | 10 photons/pixel/frame |
| Frametime | 30 ms |
| Number of frames | 6000 |
| Molecular density per μm^2 | 545 |
| Fluorescence quantum yield | 0.55 |
| Photoconversion brightness | 4.28 10^{-4} |
| Bleaching yield | 5.10 $^{-6}$ |
| Blinking off yield | 2.10 $^{-5}$ |
| Blinking on rate | 20 s $^{-1}$ |
| Mean signal to noise [#] | 60.8 |
| Mean photon output [#] | 755 photons/molecule |
| Mean localization precision [#] | 7 nm |

[#] Resulting output parameters.