

SoRa - Spinning Disk Super-Resolution by Optical Pixel Reassignment

Fast confocal and super-resolution - Equipped with a Yokogawa CSU-W1 dual disk scan head. High-speed low phototoxicity confocal imaging possible, plus in the SoRa mode a resolution improvement of 1.4x compared to widefield imaging, increasing to 2x with deconvolution (XY resolution of 120 nm) is achievable.



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| Microscope | Eclipse Ti-2 inverted microscope |
| Imaging System | CSU-W1 dual disk, 25 μm confocal fluorescence & 50 μm SoRa, 2 x Photometrics Prime 95B sCMOS cameras. SoRa magnification changer 1x, 2.8x, 4x |
| Objectives | CFI Plan Achromat VC 20X, CFI Plan Achromat Lambda S25xC Sil, CFI Plan Achromat Lambda 40XC, CFI Plan Achromat Lambda S 40XC Sil, CFI Achromat LWD Lambda S 40XC WI, CFI Plan Achromat VC 60X WI, CFI Achromat TIRF 60XC Oil, CFI SR HP Achromat TIRF 100XAC Oil |
| Laser Wavelengths | 405 nm, 488 nm, 561 nm, 638 nm |