

Zeiss AxioObserver Z1 Spinning Disk Confocal Microscope  
Specifications

Item	
Objectives	<ul style="list-style-type: none"> <li>• 5X/ 0.16</li> <li>• 10x/ 0.45</li> <li>• 20X/ 0.8</li> <li>• 40X/ 1.2 WATER</li> <li>• 100X/ 1.46 OIL</li> </ul>
Laser	<ul style="list-style-type: none"> <li>• 405 nm Diode laser, violet, 100 mW</li> <li>• 488 nm Diode laser, blue, 60 mW</li> <li>• 561 nm DPSS laser, light green, 50 mW</li> </ul>
Filter Sets	<ul style="list-style-type: none"> <li>• DAPI: Single band FL filter, 447 Centre, &gt;90 Tx over 60 nm</li> <li>• FITC: Single band FL filter, 525 Centre, &gt;90 Tx over 50 nm</li> <li>• Rhodamine: Multiband bandpass FL filter, 512/ 630 Centre, &gt;90 Tx over 23 nm</li> <li>• Transmitted light: Single band FL filter, 617 Centre, &gt;90 Tx over 73 nm</li> </ul>
Detectors	<ol style="list-style-type: none"> <li>1. Andor Neo sCMOS camera, 2560 x 2160 pixels, 16 bit digitization</li> <li>2. Andor iXon897BV EMCCD camera, 512 x 512 pixels, 14 and 16 bit digitization</li> </ol>
Stage	Manual, universal stage
Incubation System	Tokaihit temperature & CO2 module <ul style="list-style-type: none"> <li>• CO2 concentration adjustable between 1 - 8%</li> <li>• Precision +/- 0.1%</li> <li>• Temperature adjustable between 28 - 50 °C</li> <li>• Accuracy +/- 0.1%</li> </ul>
Sample Insert	<ul style="list-style-type: none"> <li>• 1x Slide</li> <li>• 1x Petri Dish 35 mm</li> <li>• 1x Petri Dish 35 mm (incubation chamber)</li> </ul>

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Spinning Disk Unit	Yokogawa CSU-X1 <ul style="list-style-type: none"><li>• 5000rpm disk spin speed</li><li>• scan rate of 1000 scans per second</li></ul>
Software	Andor iQ 3 acquisition software <ul style="list-style-type: none"><li>• Multi-position scan</li><li>• Time lapse scan</li><li>• FRAP</li></ul>
	Imaris 8.2 Measurement Pro analysis software <ul style="list-style-type: none"><li>• FilamentTracer</li><li>• Colocalization</li><li>• Measurement (surpass, time, topography)</li></ul>