

Zeiss Elyra 7 with Lattice SIM Super-resolution Microscope
Specifications

| Item | |
|-------------------|---|
| Imaging Modes | <ul style="list-style-type: none"> • Widefield • Apotome • Lattice SIM • TIRF • SMLM (PALM, dSTORM, and PAINT) |
| Objectives | <ul style="list-style-type: none"> • 10X/ 0.3 • 40X/1.4 OIL • 63X/ 1.4 OIL • 63X/ 1.46 OIL |
| Lasers | <ul style="list-style-type: none"> • 405nm (50mW) • 488nm (500mW) • 561nm (500mW) • 642nm (500mW) |
| Filter Sets | <ul style="list-style-type: none"> • GFP • mRFP |
| Detector | <ul style="list-style-type: none"> • 2x PCO.edge 4.2 sCMOS cameras |
| Incubation System | <p>Temperature & CO2 controls</p> <ul style="list-style-type: none"> • CO2 concentration adjustable between 1 - 8% • Precision +/- 0.1% • Temperature adjustable between 28 - 50 °C • Accuracy +/- 0.1% |
| Scanner | <p>Widefield mode</p> <ul style="list-style-type: none"> • Up to 5 fps @512 x 512 pixels; 200nm XY resolution |
| | <p>Apotome mode</p> <ul style="list-style-type: none"> • Up to 50 sectioned fps @512 x 512 pixels; 200nm XY resolution |
| | <p>Lattice SIM mode</p> <ul style="list-style-type: none"> • Up to 17 SIM fps @512 x 512 pixels; 120nm (XY), 300nm (Z) resolution; 15 phase images per one SIM image |
| | <p>SMLM/ TIRF mode</p> <ul style="list-style-type: none"> • 20nm - 30nm (XY), 50nm – 80nm (Z) resolution |
| Sample Insert | <ul style="list-style-type: none"> • 1x Slide • 1x Petri Dish 35 mm |

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| Software | ZEN 3.0 SR <ul style="list-style-type: none">• Multi-dimensional data acquisition• Time lapse scan• 3D-PALM module |
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