

Olympus IX83 2-deck inverted microscope with motorized TIRF coupling



GENERAL SPECIFICATIONS:

- Olympus IX83 dual-deck motorized Inverted Research Microscope Stand
- Automated XY IX3-SSU ultrasonic stage
- IX3-ZDC2 Z drift compensator module
- Photometrics Evolve 512 Delta EM-CCD with 16.5 micron pixels
- 405, 488, 561, 647 TIRF laser combiner and coupler

MICROSCOPE OBJECTIVES:

- Apo N 150x/1.45 oil immersion
- Apo N 60x/1.49 oil immersion
- UPlan SApo 20x/0.85 oil immersion
- Uplan Fluor 10x/0.5 dry

ILLUMINATION :

All lasers delivered by TIRF combiner:

- 405 nm: 100 mW
- 488 nm: 200 mW
- 561 nm: 300 mW
- 647 nm: 140 mW

Fluorescence light engine PRIOR Lumen200

FILTER SETS:

- 488 TIRF grade cube
- 561 TIRF grade cube
- 647 TIRF grade cube
- Quad TIRF cube
- IRM Reflectance beam splitter

ENVIRONMENT CONTROL:

- Environment Control System for Temperature and CO₂ control
- Dark shields for laser safety

SOFTWARE

- CellSens software (Olympus) with custom experiment design module for multipoint, multi-loop experiments