# Olympus Fluoview FV3000 Confocal Microscope



The FV3000 confocal microscope is configured with numerous light sources and versatile scanners to enable complex multi-channel imaging, FRET, FRAP and more. Equipped with a live-cell imaging chamber and multiple stage adapters, it's the perfect solution for any confocal imaging experiment.

#### Technical specifications

Imaging modality: Confocal, widefield, contrast brightfield Microscope body: Olympus IX83, inverted Light sources: 405 nm (50 mW), 488 nm (20 mW), 561 nm (20 mW), 640 nm (40 mW) 445 nm (75 mW), 514nm (40 mW), 594 nm (20 mW) Scanners: FV3000RS (Galvanometer and Resonant scanning mirrors) **Detectors:** High Sensitivity-Spectral Detectors (cooled GaAsP photomultiplier) **Objectives:** 10X/NA0.4, 20X/NA0.75, 30X/NA1.05 (Silicon), 40X/NA1.25 (Silicon), 60X/NA1.3 (Silicon), 60X/NA1.35 (Oil) **Carriers**: Glass slides, Attofluor chambers, multi-well plates, chamber slides **Contrast methods:** DIC, Phase **Controlling software:** FluoView FV31S-SW Other: Temperature-controlled blackened live-cell imaging chamber

# Olympus Fluoview FV4000 Confocal Microscope



The next-generation FV4000 confocal microscope is equipped with highly sensitive SilVIR detectors with enormous dynamic range, unlocking new possibilities in quantitative confocal imaging, including photon counting and confocal pinhole oversampling. The cellSens FV software facilitates automated experiments with complex dimensional XYZT imaging, and image tiling and stitching.

### Technical specifications

**Imaging modality:** Confocal, widefield, high-dynamic range photon counting Microscope body: Olympus IX83, inverted Light sources: 405 nm, 488 nm, 561 nm, 640 nm Scanners: FV4000RS (Galvanometer and Resonant scanning mirrors) **Detectors:** SilVIR detectors with high-dynamic range linear detection and photon counting **Objectives:** 20X/NA0.80, 40X/NA0.95 , 60X/NA1.42 (Oil) **Carriers:** Glass slides, Attofluor chambers, multi-well plates, chamber slides **Controlling software:** cellSens FV Other: Temperature-controlled blackened live-cell imaging chamber

# Abbelight SAFe 180 Super-Resolution Nanoscope



The Abbelight SAFe 180 Super-Resolution nanoscope is equipped for multiple advanced imaging modalities including STORM, TIRF and single particle tracking. The SAFe180 nanoscope's ASTER technology offers homogeneous illumination over a 150 x 150  $\mu$ m field of view—the largest field of view for STORM imaging on the market. The system achieves STORM localisation precisions of <15nm, perfect for directly quantitative studies of single molecules. 3D STORM imaging is also possible through the equipped astigmatism lens. The system is also equipped with a live-cell imaging chamber to enable live TIRF imaging and single-particle tracking.

### Technical specifications

Imaging modality: SMLM STORM, TIRF, HiLo, single-particle tracking, PAINT, widefield Microscope body: Olympus IX83, inverted Light sources: 405 nm (54 mW), 488 nm (44 mW), 561 nm (360 mW), 640 nm (600 mW) Camera: Hamamatsu Orca-Fusion (CMOS), Evolve 512 Delta (EMCCD) **Objectives:** 10X/NA0.4, 100X/NA1.45 (Oil) **Carriers:** Glass slides, Attofluor chambers, chamber slides **Controlling software:** Abbelight SAFe NEO, cellSens Other: Temperature-controlled blackened live-cell imaging chamber

### Nikon ECLIPSE Ti-E Spinning Disk Microscope



The Nikon ECLIPSE Ti-E Spinning Disk microscope is equipped for live-cell imaging with a CrestOptics X-Light V2 spinning disk module, providing a large 25 mm field of view and high-speed fluorescence imaging that is gentle on live-cells. It is perfect for live-imaging of biosensors including Ca2+, cAMP, ATP/ADP, and reactive oxygen species. It is compatible with FRET sensors.

#### Technical specifications

Imaging modality: Spinning disk confocal, widefield Microscope body: Nikon ECLIPSE Ti-E, inverted Light sources: 89 North LDI-7 Camera: Teledyne Prime BSI Express sCMOS **Objectives:** 10X/NA0.30, 20X/NA0.75, 60X/NA1.4 (Oil) **Carriers:** Glass slides, Attofluor chambers, multi-well plates, chamber slides **Controlling software:** Oxford Instruments MetaMorph Other: CrestOptics X-Light V2, Temperature-controlled blackened live-cell imaging chamber

### Leica TCS SP8 Microscope



The Leica TCS SP8 microscope is a user-friendly and robust upright fully-motorised confocal microscope which is easy to use and reliable for routine imaging applications. The Leica LAS X integrated software solution is intuitive for users with all ranges of imaging experience.

### Technical specifications

Imaging modality: Confocal, widefield Microscope body: Leica TCS SP8, upright Light sources: 405 nm, 488 nm, 561 nm, 633 nm Scanners: Leica HyD detectors and Leica PMT Objectives: 10X/NA0.30, 40X/NA0.70, 63X/NA1.30 (Oil) Carriers: Glass slides, chamber slides Controlling software: Leica LAS X