

## Olympus IX81 inverted fluorescent microscope for Live cell imaging

**Microscope system:** Olympus Cell<sup>^</sup>R system (from Olympus Biosystems GMBH)



**Camera:** F-view-II cooled CCD camera (Soft Imaging systems)

**Light source:** Xenon-Arc burner (Olympus Biosystems GMBH) as light source

**Excitation filters:** 360 nm (for blue staining)  
492 nm (for green staining)  
572 nm (for red staining)  
340 nm Fura  
380 nm Fura  
470 nm GFP  
430 nm CFP  
500 nm YFP

**Emission filters:** UBG triple-bandpass emission filter cube (Chroma)  
CFP/YFP filter set for FRET imaging

**Objectives:** Olympus UPlanFI 4x/0.13  $\infty$ /-  
Olympus UPlanFLN 10x/0.30  $\infty$ /-/FN26.5  
Olympus LUCPlanFLN 20x/0.45 Ph1  $\infty$ /0-2 FN22  
Olympus LUCPlanFLN 40x/0.60 Ph2  $\infty$ /0-2 FN22  
Olympus Plan APO N 60x/1.42 Oil  $\infty$ /0.17/FN26.5  
Olympus UPlanApo N 100x/1.40 Oil  $\infty$ /0.17/FN26.5

**Software:** Cell<sup>^</sup>R imaging software