

Microscopes currently being controlled using micro-manager at the National Centre for Biological Sciences, Bangalore.

System Name	Components
1. Nikon, unmotorized Standard epifluorescence imaging	Microscope: Nikon Eclipse TE300. Camera: Andor DV887ECS-BV Excitation Shutter wheel: Lambda 10-2, Sutter Instruments
2. Dual camera setup Two cameras for simultaneous acquisition in 2 channels	Microscope: Nikon TE 2000E. Perfect focus system:T-PFC (Nikon) Camera: 2 Photometrics Cascade 512B Shutters: Sutter Instrument Model LB10-2, wheel B (excitation filter wheel) Wheel A (emission filter wheel) Uniblitz Shutter (for lasers)
3. Motorized system for high-throughput screening and plate scanning (96 well)	Microscope: Nikon te300 XY stage = Prior optiscan H107 Z stage = Ludl MAC5000 controller, console B Filter wheels: emission = HF110 Prior excitation = HF108 Prior excitation shutter x2 = HF201HT Prior controller (for all the above) = H30XY Prior Camera: Photometrics Cascade 512B
(There are 2 such systems being controlled with micro-manager)	
4. Zeiss, motorized	Zeiss Axiovert 200M fully motorized - fluorescence shutter - brightfield halogen dimmer - motorized filterwheel - motorized objective switcher - z-axis focus - 2.5x optovar switcher - camera/eyepiece/50-50 prism switcher XY Stage: Ludl with Mac5000 controller Camera: Princeton Instruments PhotonMax EMCCD camera (PVCAM).
5. Olympus epifluorescence	Microscope: Olympus iX71

setup

Stage: Prior XYZ motorized, Proscan controller
Camera: PCO Pixelfly qe

(This setup is used for laser microsurgery. A nanosecond pulsed laser has been coupled through the microscope back-port to allow simultaneous fluorescence viewing and laser ablation. In future the laser will be externally triggered from micro-manager via TTL pulses).

6. Nikon, upright
Standard epifluorescence
imaging

Microscope: Nikon U
Camera: QImaging Retiga

7. Nikon inverted
for photoactivation
and calcium imaging

Microscope: Nikon TE-2000-S
- fluorescence shutter- T-FL-E motorized epi and
fluorescence attachment
- brightfield halogen dimmer
T-CT-E motorized condenser turret
- motorized filterwheel- T-FLEW-E Excitation filter
wheel
T-FLC-E motorized cassette holder with filter cube
inside
- motorized objective switcher- T-ND6-E sextuple
motorized DIC nosepiece
- z-axis focus- NA
Camera: QImaging Evolution EEi Fast,
Rapp Optoelectronic Xenon flashlamp system

(This setup is used for calcium imaging and will later be used for photoactivation and imaging. Micro-manager can trigger the Xenon flashlamp system through TTL pulses. A custom device adapter was written for the excitation filter wheel to control it in micro-manager).

8. Nikon, motorized

Nikon TE-2000S
- motorized filter block
- motorized nosepiece (objective turret)
- motorized condenser turret
- motorized epi shutter
- halogen lamp shutter
- PFS perfect focus system
Camera: Photometrics Cascade II