

μManager: Open Source Software for Microscope Image Acquisition

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Why micro-manager.org?

Started summer 2005 at Vale Lab, UCSF

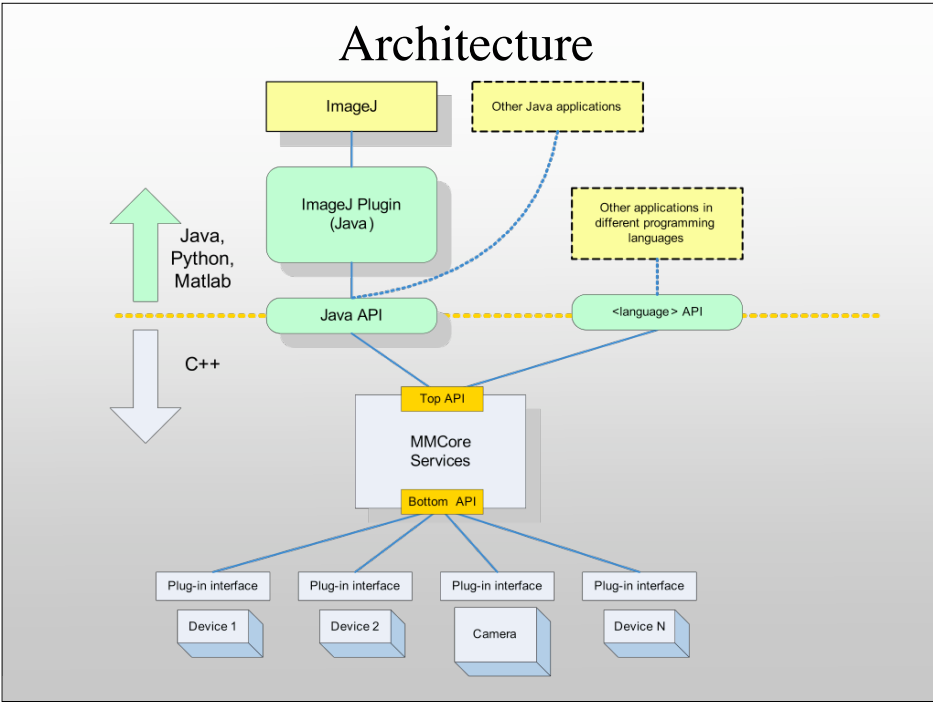
- Single Interface for all microscopes
- Standard and open plug-in interface
- Choice in hardware
- (Real) extensibility
- Quality
- Cost

μManager features

- Simple user interface to important imaging strategies: Snap Image, Time-lapse, z-series, multi-channel, multi-positions
- Controls many microscope hardware components
- Hardware support can be added by anyone
- Integrated with ImageJ
- Cross-platform (Windows, Mac, Linux)

μManager features(2)

- Open Source
- Modular architecture: Extensible by third parties: at hardware support level and User Interface
- Powerful scripting interface
- Programmatic interfaces to 3rd-party analysis environments such as Matlab enabling analysis driven acquisition
- Free!



Currently Supported Hardware

- **Microscopes:**
 - Nikon: TE2000, TI, AZ100
 - Zeiss: AxioPlan, AxioVert, AxioObserver, AxioImager
 - Olympus: IX81
 - Leica: DMI and DMR series
- **Cameras:**
 - ABSCameras
 - Andor
 - Hamamatsu
 - Roper/Photometrics
 - QImaging
 - dc1394 (firewire)
 - DVC
 - PCO Pivalfly, Senacam
- **Stages/filter wheels shutters, etc.:**
 - ASI
 - Ludl
 - Prior
 - Sutter
 - Mad City Labs
 - Nikon
 - Conix
 - Physik Instrumente
 - Maerzhauser
- **Communication ports, IO:**
 - Serial, parallel, USB port
 - DTOpenlayer
 - Velleman K8055 and K8061
 - National Instruments
- **Other devices:**
 - Neos AOTF controller
 - Spectral LMM5
 - Yokogawa CSU22 and CSUX
 - Pecon environmental control
 - CoolLED
 - Cobolt and Coherent lasers

µManager
THE OPEN SOURCE
MICROSCOPY SOFTWARE

Support and Statistics

Website: <http://micro-manager.org>

Wiki: <http://valelab.ucsf.edu/~nico/MMwiki>

Source code:

<https://valelab.ucsf.edu/svn/micromanager2/branches/micromanager1.3>

Mailing list: <https://lists.sourceforge.net/lists/listinfo/micro-manager-general>

Support/Help: info@micro-manager.org

>3000 registered users ([~150 new users each month](#))

[300 subscribers to the mailing list](#)

[Booth at ASCB meeting](#)



Documentation

Website:

- Users's guide
- Configuration guide
- Programming guide
- API reference

Wiki:

- Scripting interface
- Example scripts
- Programming tips
- Device configuration
- FAQ

Thanks!

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