

Motic®

Quick Start Guide

For Linux

Motic Images J 1.0

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Note:

The intention of this guide is to provide quick instructions to key tasks of the Motic Images J 1.0 software. If more detail is needed or what you are looking for is not contained in this guide, please consult Help that comes with your software or visit our website <http://www.motic.com>.

Installing the Software

Before installing Motic Images J 1.0, please read these instructions carefully, and perform the setup accordingly.

Recommended Configuration

CPU: Pentium 4 2.8GHz or faster

Memory: 1GB

Hard Disk Space: 300MB

Display Resolution: 1024 x 768 or higher

Operating System: openSUSE 11.1 or other distributions

Preparation for Software Installation

1. Get your Motic microscope ready, and check that the USB cable of microscope is NOT connected to the USB port of the computer.
2. Microscope is powered up.

Installing Motic Images J 1.0

Please follow the instructions outlined below to install Motic Images J 1.0 on the openSUSE 11.1. Similar process for the installation on other Linux distributions.

1. Copy MoticImagesJ.tar.gz file to your hard drive, and decompress it.
2. Modify operating system. For openSUSE11.1 system, first find the file /lib/udev/rules.d/50-udev-default.rules, then find the line SUBSYSTEM=="usb", ENV{DEVTYPE}=="usb_device", MODE="0644", and change the "644" to "666".

You need to be the root to do this and reboot.

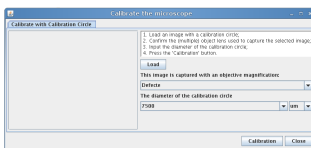
Note: Please refer to README file for other Linux distributions.

3. Connect the microscope with your computer.
4. Double click the run script file to start the program.

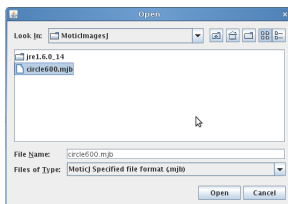
Precise Calibration

Calibration is a very important step before you start using the measure system of Motic Images J 1.0. It should not be skipped and should be done before you do anything else in Motic Images J 1.0. It will assure the accuracy of your measurements.

Calibration method provided: Calibrate with Calibration Circle.

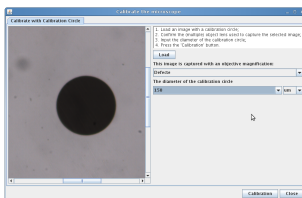


1. Click "Load" this will bring up the Open Image files dialog box, with which you can select an image with Calibration Circle, and click "Open" to load the selected image.

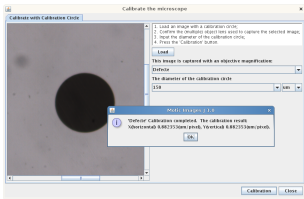


2. Open an image captured with the microscope that you want to calibrate.

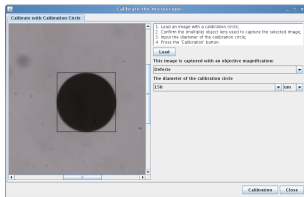
Note: Please use the calibration circle slide that matches your microscope.



3. Confirm the multiplication of the object lens used to capture the image and the diameter of the calibration circle, input the data, and then click "Calibration".



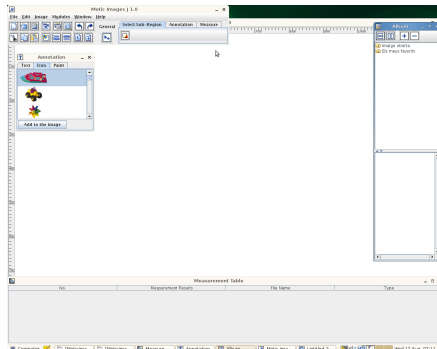
4. After calibration, the program will prompt a dialog box to confirm the calibration result, please click “OK” to confirm.




5. Click “Close” to end the window.

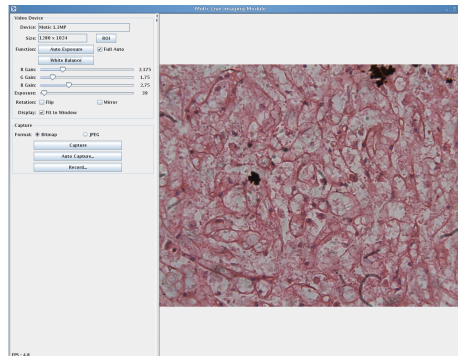
Capturing Images with the Digital Microscope

1. Start Motic Images J 1.0 to display the following interface:

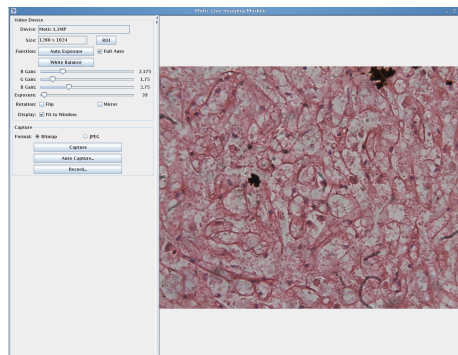


2. Click the Start the digital microscope button  of the tool bar, or select “Start the digital microscope” from the File menu.

- Then you'll see the following Capture Window:



- In the Capture window as shown above, clicking “Auto Exposure” will adjust image brightness; clicking “White Balance” will conduct white balance operation on the image; if several MC devices have been connected, you may select the desired device from “Device” dropdown list.
- With the tool bar at the left of the capture window, you can capture single frames, record *.mov files, and capture images automatically at preset intervals.



Taking Measurements

Note:

Please make sure that your system has been properly calibrated before taking any measurements.

Before measure, first you have to set the corresponding calibration value in the Image Property Menu.


Since the image has stored the calibration value you saved before, if you want to change the current calibration value, you must calibrate again under the system and then choose the calibration value from the Image Property.

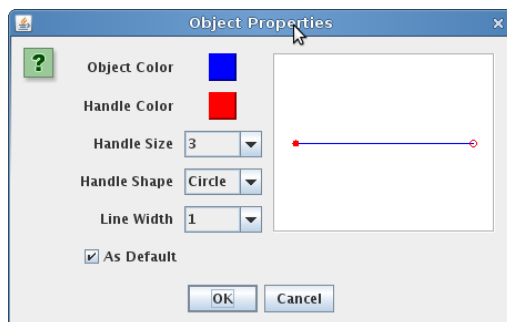
Measuring Length and Area

1. Select the measurement you need from the Measure tool bar:



2. Move the mouse pointer to the image window, click and drag the mouse over the area/distance you want to measure. You can change the measurements with the clicking and dragging of the mouse.

3. Select "Object Properties" from the Edit menu, or click  from the toolbar to bring up the following dialog box, with which you can modify the object color and the color, size and shape of the handle.



Erasing Measurements

This should be done before saving an image file. Select the measure data you want to delete, and press the Delete key to bring up the following dialog box, click "Yes" to delete the selected data.

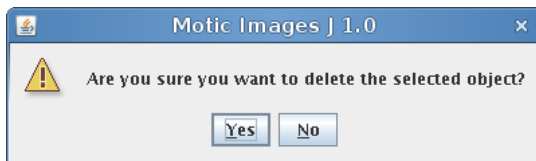
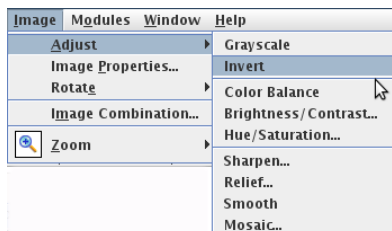
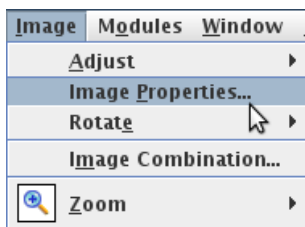


Image Processing

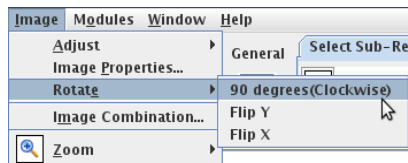
The image processing commands provided: Adjust (Grayscale, Invert, RGB, Brightness/Contrast, Hue/Saturation, Sharpen, Relief, Smooth, Mosaic); Image Properties; Rotate (90 degrees (Clockwise), Flip, Mirror); Amalgamation; Zoom.



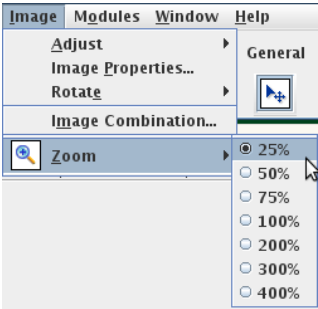
1. To adjust the quality of the current image, please select the corresponding options from the Adjust submenu of the Image menu.



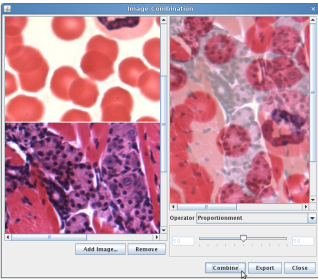
2. Select "Image Properties" from the Image menu will bring up the Set Image Properties dialog box, with which you can modify the image settings.



3. Select the corresponding options from the Rotate submenu of the Image menu, and you can rotate images in different ways.

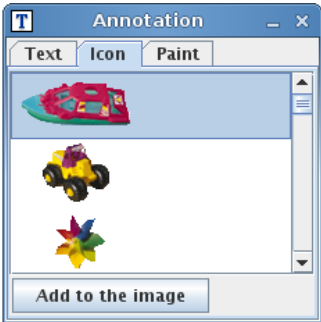


4. Select the options provided in the Zoom submenu, you can easily display the images in proper size.



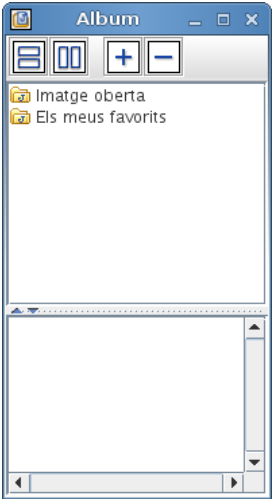
5. Select “Amalgamation” from the Image menu to bring up the corresponding dialog box. Click “Add Image” to load the images you want to amalgamate, select the amalgamation method, then click “Amalgamate”, and the selected images will be amalgamated accordingly.

Annotation



Select “Annotation” from the Window menu to bring up the Annotation window. It’s composed of three tabs: Text, Icon and Paint. You can add both captions and icons to the current image.

Album



Select “Album” from the Window menu to bring up the Album window. There are four buttons provided for you to manage the window: Array horizontally, Array vertically, Add album and Remove album.

Measure Table

Select “Measure Table” from the Window menu will bring up the Measure Table window, where the data of the measurements taken are kept.

No.: The sequence of the measurements taken.

Measure Results: The corresponding data of the measurements taken.

File name: The name of the image file in which the measurement is taken.

Type: The type of the data.

Measurement table					
No.	Measurement Results	File Name	Type		
1	297.42 um	Untitled-5	Length		
2	341.05 um	Untitled-5	Length		
3	354.01 um	Untitled-5	Length		
4	21359.43 sq um	Untitled-5	Area		
5	5513.01 sq um	Untitled-5	Area		
6	792.46 sq um	Untitled-5	Area		
7	0.00 sq um	Untitled-5	Area		
8	3720.18 sq um	Untitled-5	Area		
9	0.00 sq um	Untitled-5	Area		

The Motic logo features the word "Motic" in a bold, red, sans-serif font. A registered trademark symbol (®) is positioned to the upper right of the letter "i".

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www.motic.com

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