



Nikon Inverted Microscope User Guide

Turn-on procedure	Turn-off procedure
1) Turn on power outlet at back	1) Close Nikon Software
2) Log in to computer	2) Turn off power outlet at back
 Open NIS Elements Acquisition software and choose the Neo camera 	3) Log out of BRC Login



Phase

For acquiring phase images, choose either Ph1 or Ph2 phase plates in the condenser to match whatever phase objective you are using (10x and 20x are Ph1 and 40x is Ph2). Open up the condenser aperture all the way.

Tiling

In order to tile on this system, you need to first change to global shutter. Acquire an image.

Run Calibration -> Recalibrate Objective . . . -> Auto

(You have to acquire at least one tiled dataset in global shutter. Then you can change to rolling shutter or just leave it in global.)

To do this you can either:

1) Choose mxn tiles under Acquire -> Scan Large Image

OR

2) First choose bounding positions using Acquire -> Capture Multipoint -> Capture Automatically -> Add

icon.

Then Acquire -> Scan Large Image and choose the

If your exposure time is too short (usually <50 msec or so), the Program hangs during attempted acquisition program neglects to inform you but just hangs. Switching from Rolling to Global Shutter can also help in certain cases. Horizontal line across your In global shutter, you only have a well-depth of $(2^{16})/3=21,845$. image. Make sure your counts are under this value. Cannot turn down For some reason, the software does not allow Lamps transmitted illumination access to low illumination levels. Click the enough buttons under Lamps until it looks like this: You have now given the microscope control of the transmitted light illuminator. Use these controls to adjust the light. On/Off Intensity PFS Try the PFS. It's great!

Troubleshooting