temDM ClickMover

Installation: drop the „temDM ClickMover“and “temDM extFrames.gt3” plugins into the „PlugIns“ folder: WindowsXP: Program Files/Gatan/DigitalMicrograph/PlugIns
Windows7: ProgramData or User ... /Gatan/PlugInsIn the case
In the case of the off-line system put the „temDM VirtualTEM.gtk“ plugin in the same folder.
Start DigitalMicrograph and choose „ClickMover “ from Menu „temDM“.

First, assign the View window to the ClickMover The LIVE View window should be frontmost

deassign View window

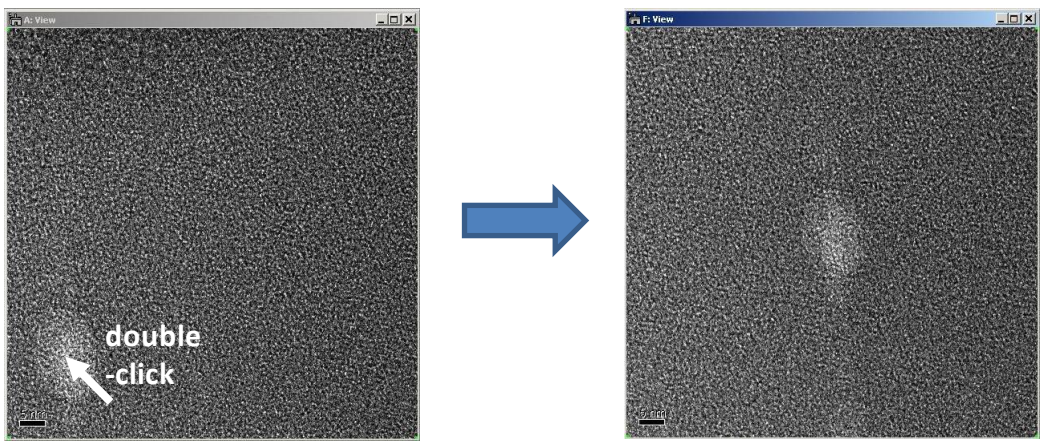
Enable this box if you wish the beam to be recentered after each user image shift

reset the user image and beam shifts

gives access to the settings :
Calibration of the image and beam shifts for the given microscope
At least image shift must be calibrated before the first use !

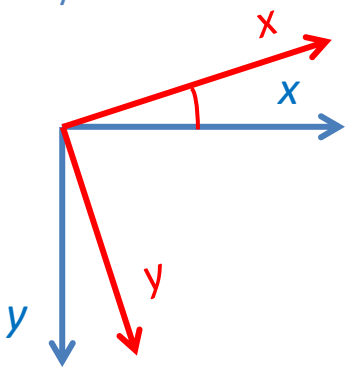
How it works:

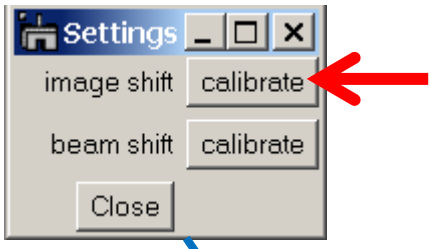
Double-click at the feature of interest in the LIVE image. The feature will be moved to the center of the LIVE image by user image shift.

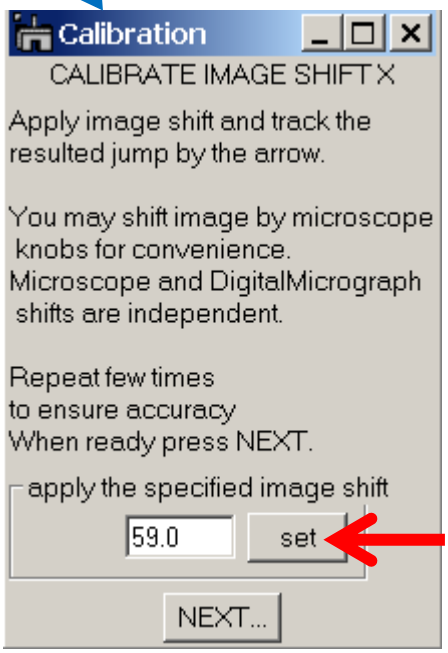


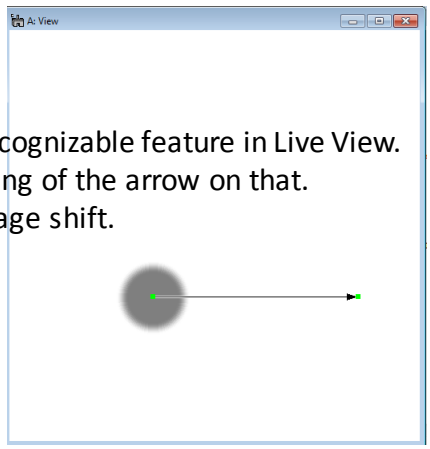
Calibration is the essential part of ClickMover

The rotation between the **“image”** and **“image shift”** coordinate systems must be measured. Also the scales of two systems need to be mutually calibrated.

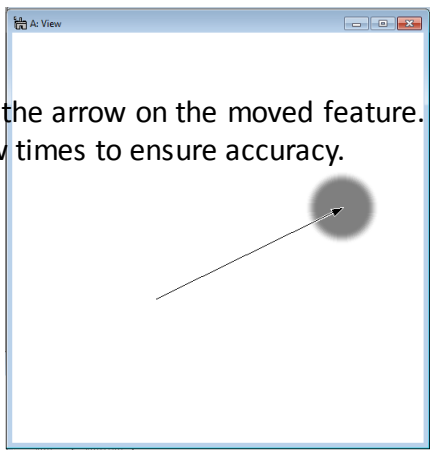




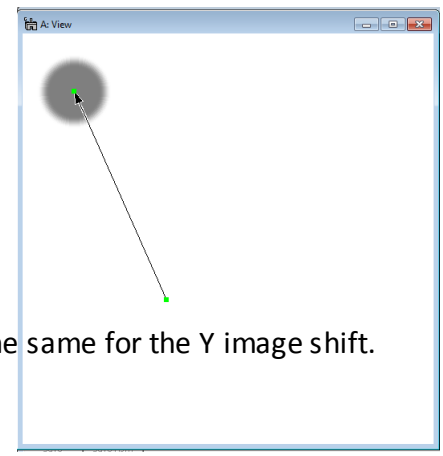




Find the recognizable feature in Live View.
Set beginning of the arrow on that.
Apply X image shift.



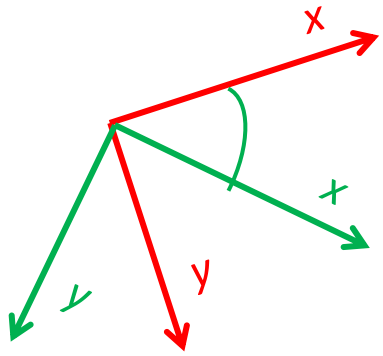
Set end of the arrow on the moved feature.
Repeat few times to ensure accuracy.

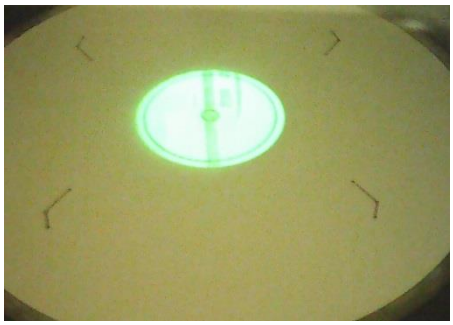


Do the same for the Y image shift.

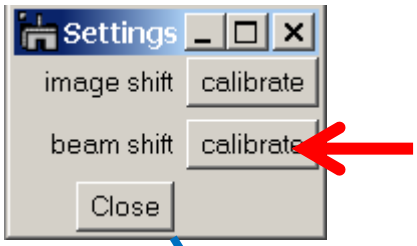
Calibration is the essential part of ClickMover

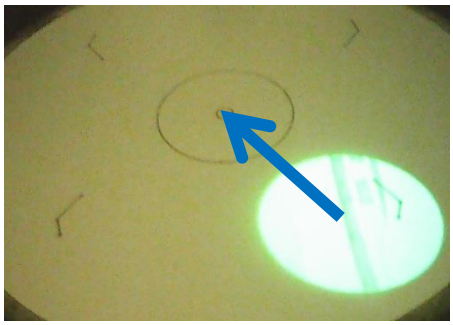
The rotation between the **“image shift”** and **“beam shift”** coordinate systems must be measured. Also the scales of two systems need to be mutually calibrated.



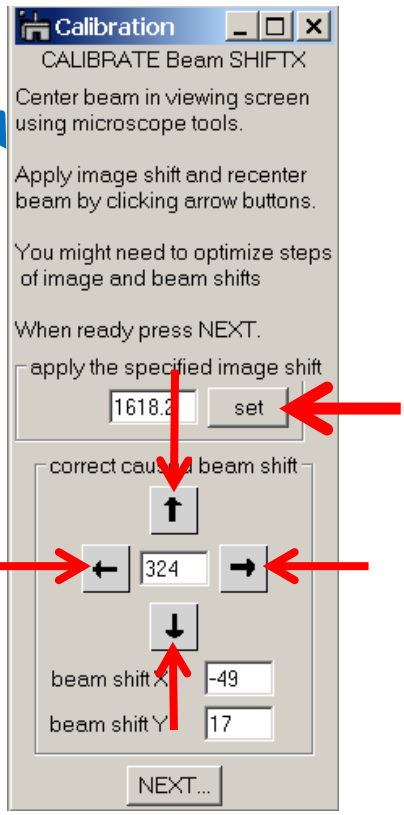


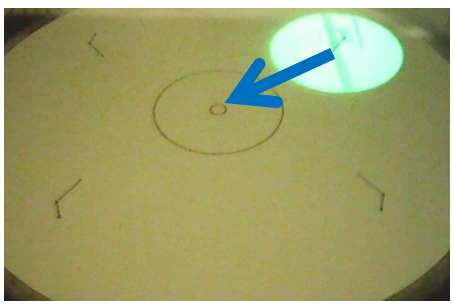
Look at your beam at low magnification.
Center the beam at the flu screen.





Apply X image shift.
Track how the beam is shifted due to coupling.
Recenter the beam by arrows.





Do the same for the Y image shift.