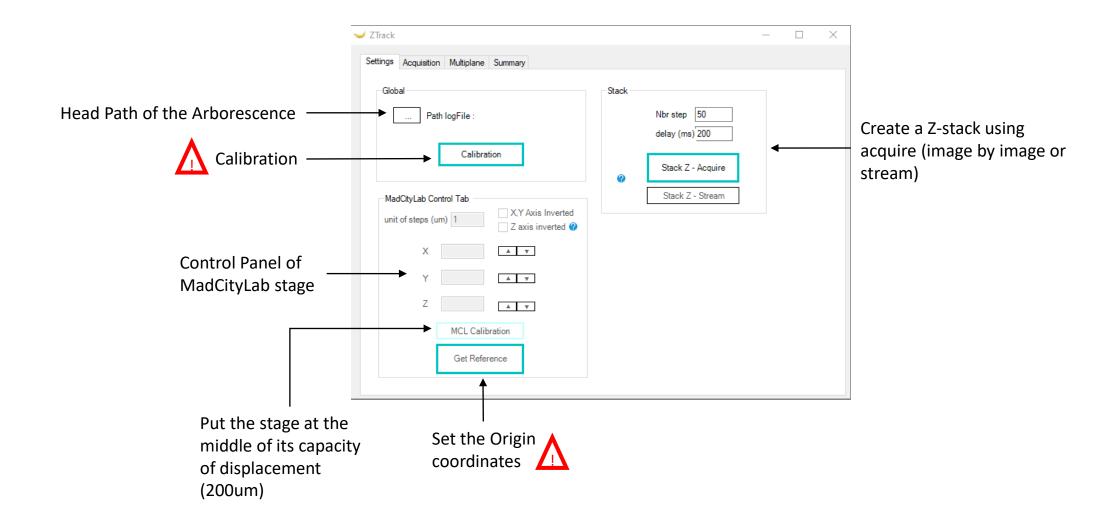
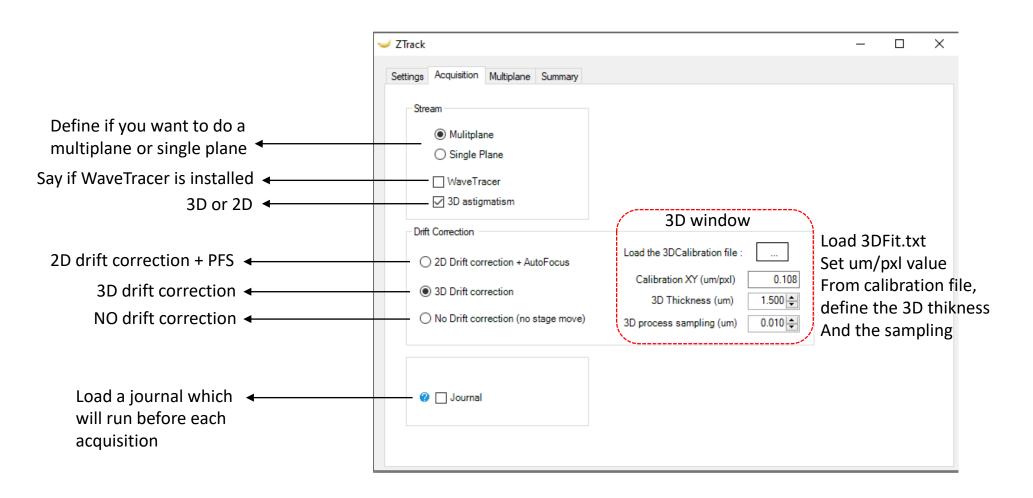
Z-Track V4.0

Manual

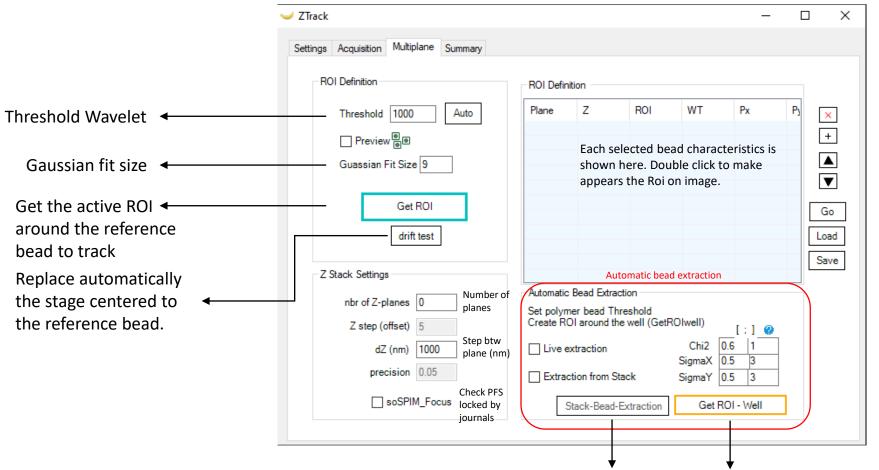


: Mandatory to move forward in the process





Reference bead = bead used as reference for the automatic drift correction.



Bead extraction:

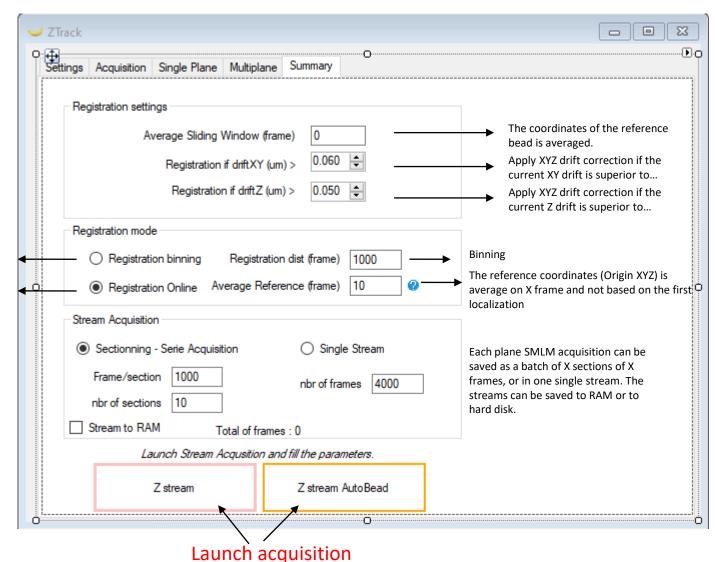
- Manual bead extraction: Select one ROI of the reference bead for each plane you want to acquire manually by using « Get ROI button ». Make sure the bead is catched by the wavelet threshold by using « preview » checkbox.
- Automatic bead extraction: First select a ROI around the well and click « GetROI-well ». Then you can automatically extract the reference bead of each planes of your acquisition either in live or from a Z-stack previoulsy acquired manually. Then for each plane (live or Z-stack), each beads of the FOV (except in the ROI well) will be selected and filtered using the chi2/sigma filters. From each plane, the filtered bead with the best score will be set as reference.
- N.B in live mode, for each plane, an image is taken from which a reference bead is selected before the SMLM acquisition. If any beads pass the filters and is selected, then the acquisition is cancelled and move forward the next plane. Using the stack mode, from the panel, the user can easily check if a plane/reference bead is missing and fix it by adapting filters.

Extract beads from a stack.

Do a Z stack of the cell/well you want acquire.

Then from each frame of this stack one bead per plane will be pre-selected as reference for drift correction for each plane.

Select a ROI (active) around the well. Then launch the acquisition for the « live automatic bead extraction » or launch the « bead extraction from stack ». For each plane, one bead will be automatically selected around the well.



Binning = Drift correction applied every X frame

Drift correction applied every frame