

Autosampler MAT Calibration Protocol

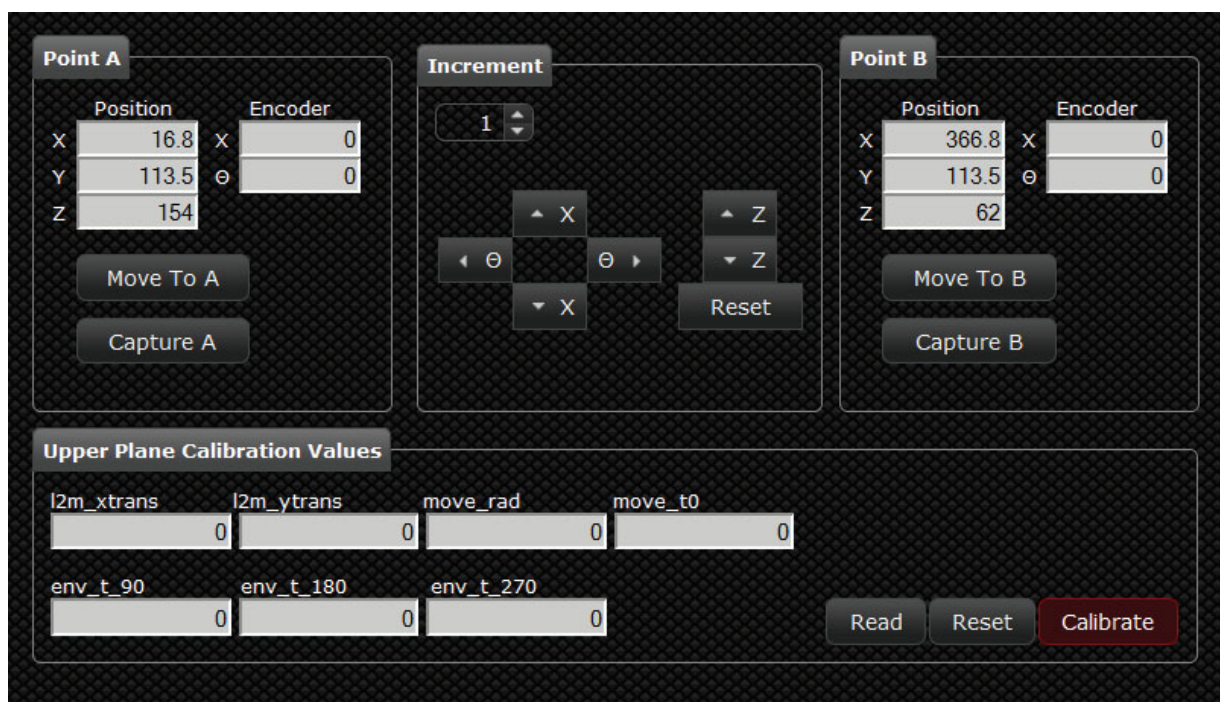
MAT Calibration is done directly from the KinExA® Pro software. (For software versions 3.7.7 and newer)

Instructions:

1. Remove sample racks from Autosampler.
2. Make sure the Autosampler is selected for use under the instrument controller.
 - In the KinExA Pro software, select **Tools/Options/Instrument Controller**.
 - Check the **Autosampler** box under *KinExA 3200* and select **OK** to close the Options menu.
3. Select **Initialize**  from the toolbar and make sure the sipper tube initializes.
4. Open the MAT Calibration program.
 - Select **Tools/Autosampler MAT Calibration**.
 - A new browser window/tab will open the calibration program (**Figure 1**).
5. Under the *Increment* tab, set the increment to **1** in the drop down menu. This sets the distance the sipper tube moves every time the position is adjusted.

Note: It is important to capture Point A before capturing Point B. Changes will not be saved if Point B is captured first.

6. Capture A
 - Under *Point A*, select **Move to A**.
 - The sipper tube will move to an engraved dot at the back (near the standards rack) of the Autosampler.
 - Align the sipper tube with the center of the dot. Use the **θ** left and right buttons to move the sipper tube in a left arc or right arc. Use the **X** up and down buttons to move the sipper tube forward and back.
 - Once the sipper tube is aligned, select **Capture A**.
7. Capture B
 - Repeat the steps under *Capture A*.
 - Select **Capture B** when aligned.
8. Select **Calibrate** when complete and exit the browser.



Point A

	Position	Encoder
X	16.8	X 0
Y	113.5	θ 0
Z	154	

Move To A
Capture A

Increment

1

θ X Z
θ X Z
Reset

Point B

	Position	Encoder
X	366.8	X 0
Y	113.5	θ 0
Z	62	

Move To B
Capture B

Upper Plane Calibration Values

l2m_xtrans	l2m_ytrans	move_rad	move_t0
0	0	0	0
env_t_90	env_t_180	env_t_270	
0	0	0	

Read Reset Calibrate

Figure 1. Screen shot of the MAT calibration program.