

EZ Align Lamp Alignment Tool


These instructions assist KinExA® users with proper Lamp alignment using the EZ Align Tool on 3200 Instruments.

Note: This procedure has been developed to work with the red filter set. For aligning the Lamp with other filter sets see *How to Guide 204 Lamp Replacement and Alignment (HG204)*.

Tools Needed:

- 2 mm Ball Driver (011020)
- 1.5 mm Ball Driver (011015)
- EZ Align (800510)
- Dielectric Grease (231362) /or
- Index Matching Fluid (231363)

Procedure:

- Turn the **Lamp OFF**, then unclip the *Flow Cell* and move it out of the way.
- Make sure the fluorescent target on the *EZ Align* has a light coating of *Dielectric Grease* or *Index Matching Fluid* and then clip it in place of the *Flow Cell*. Look at the EZ Align logo. It should be right side up and properly aligned (**Figure 1**).
- Open the *Lamp Access Door* by removing the [2] *Thumb Screws*.
- Turn the **Lamp ON**.
- Open KinExA Pro and click on the **Read Meter** icon [] located in the *tool bar*. You can also access this feature by selecting it from the *instrument tab*. This opens the real-time excitation graph that allows visual feedback of alignment adjustments. While observing this screen, X-Y-Z adjustments (**Figure 2**) can be made until the voltage is maximized.
- Press **Start**.
- To adjust the Z-Axis, loosen the *Set Screw* (**Figure 2**) using the 1.5 mm *Ball Driver*. Move the *Lamp* in and out until maximum signal is found and then tighten the *Set Screw*.

- To adjust the X and Y-Axis manipulate the [2] *Adjustment Screws* shown in **Figure 2** using the 2 mm *Ball Driver*. Adjust both *Screws* until maximum signal is found.
- When finished, remove the *EZ Align Tool*. Make sure to clean it and the *Flow Cell Groove* with *Denatured Alcohol*.
- When replacing the *Flow Cell*, remember to add a small dab of *Dielectric Grease* or *Index Matching Fluid*.
- Replace the *Lamp Access Door* and secure the [2] *Thumb Screws*.



Figure 1. Orientation of the EZ Align Tool installed in the Flow Cell Groove.

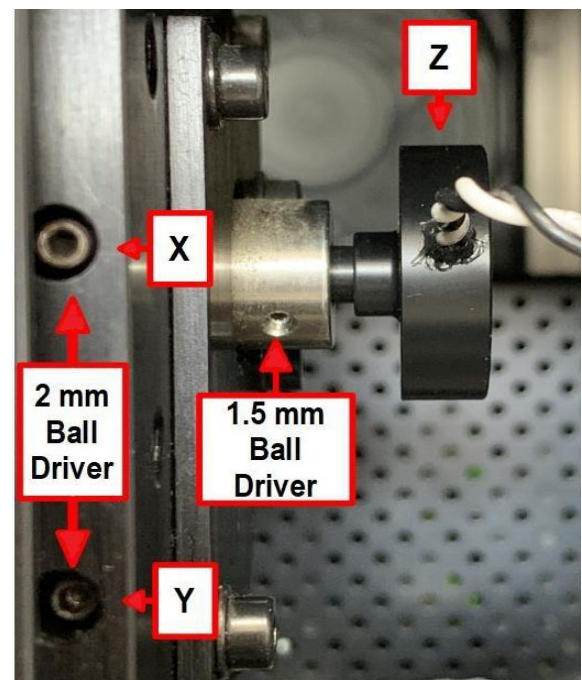


Figure 2. Location of the Adjustment Screws and Lamp Set Screw behind the Lamp Access Door.