

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*.

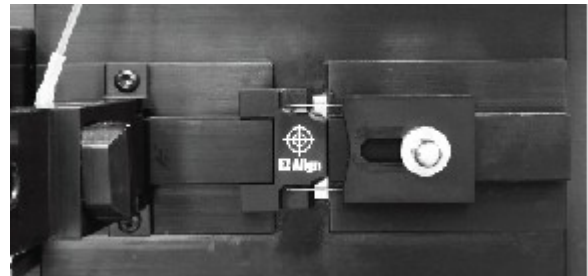


Figure 1. Orientation of the *EZ Align Tool* installed in the *Flow Cell Groove*.

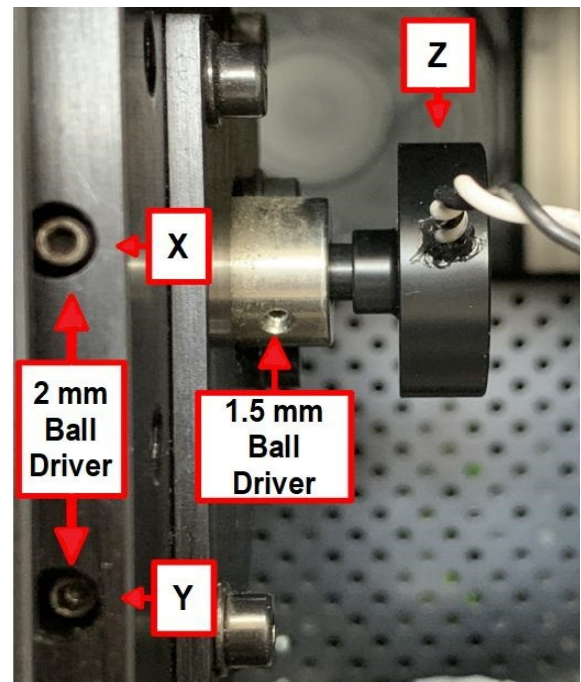


Figure 2. Location of the *Adjustment Screws* and *Lamp Set Screw* behind the *Lamp Access Door*.