Camera Alignment Macro

1. Set up tracks for all desired wavelengths.

2. Make sure you have the following parameters set before you image:

   Under

   For your **CAMERA** Images
   - 1388x1040 standard
   - **THEN** click 1024x1024
     - If your field of view appears as a rectangle this has not been done properly. It should be a square.

   For your **LASER** Images
   - 1024x1024
   - Make sure the field of view is centered.

3. Open up the Camera Align macro from the main tool bar
   - If it is not listed under the macro option please contact the imaging center technician to install it for you.

   ![Camera Align Macro Interface](image)

   Enter the numbers below based off of the objective you’ve selected and select Apply.

<table>
<thead>
<tr>
<th>Objective</th>
<th>Offset X</th>
<th>Offset Y</th>
<th>Amplitude</th>
<th>Rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x</td>
<td>45</td>
<td>2000</td>
<td>88.1</td>
<td>0.55</td>
</tr>
<tr>
<td>40x</td>
<td>53</td>
<td>500</td>
<td>88</td>
<td>0.55</td>
</tr>
<tr>
<td>63x</td>
<td>54</td>
<td>200</td>
<td>88</td>
<td>0.5</td>
</tr>
<tr>
<td>100x</td>
<td>55</td>
<td>165</td>
<td>87.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

   Your **LASER** field of view will no longer be set to zeros. This is the desired effect and should NOT be altered.
   - The square will be slightly tilted.
   - Zoom will be less than one.

   *If you don’t see these changes re-enter the numbers into the macro.*

   **Notes:**
   - After doing the proper set up you can only manually move the field of view by using the X/Y buttons (or the joystick) on the stage controller.
   - You can NOT zoom your laser image as usual.
     - To zoom you must alter your image parameters to the 512 x 512 options on BOTH settings AND use a zoom of 2x on your laser image. The field of view must still be centered.