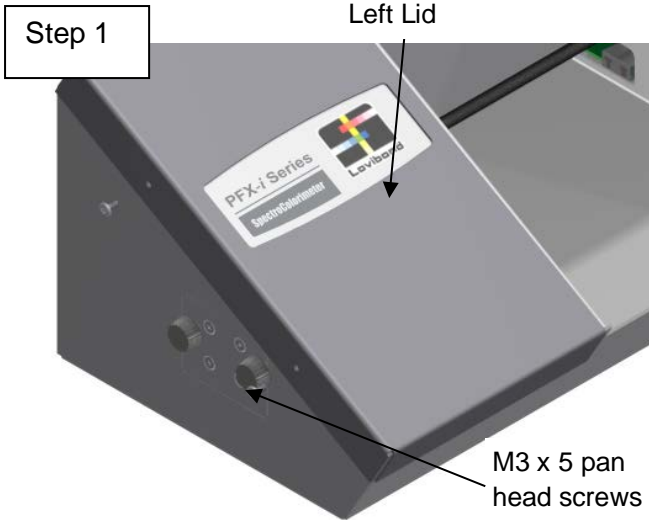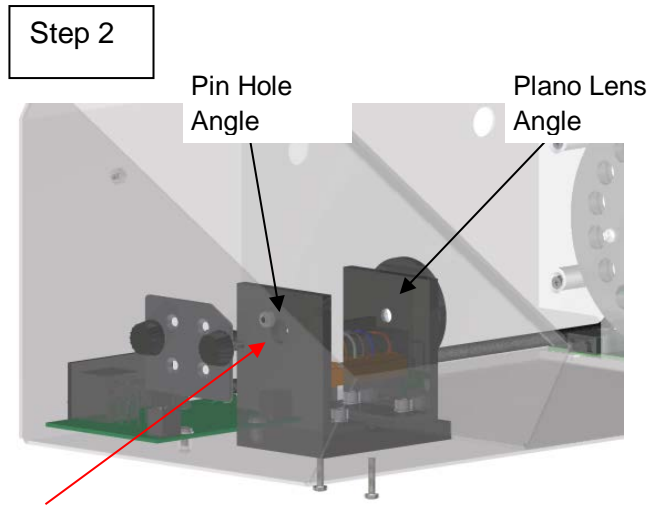# PFXi Aligning the Optics

⚠️ Disconnect from the power supply before continuing.

The Tintometer Ltd, Lovibond House, Sun Rise Way, Amesbury, SP4 7GR, UK
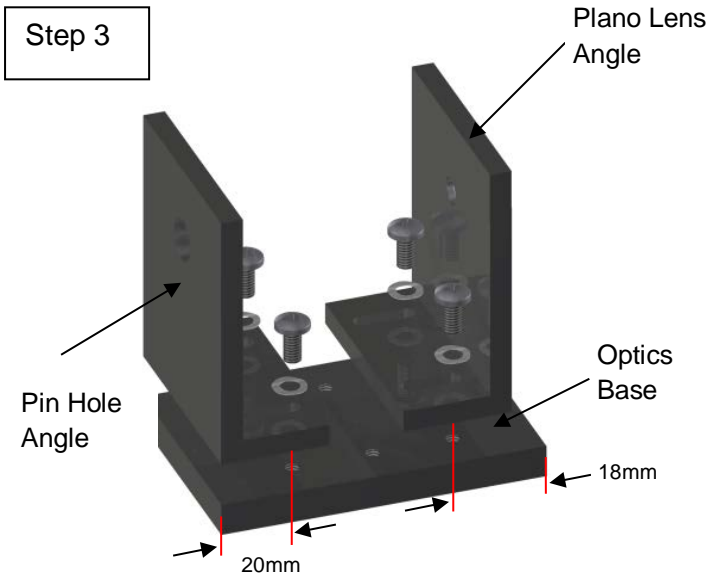
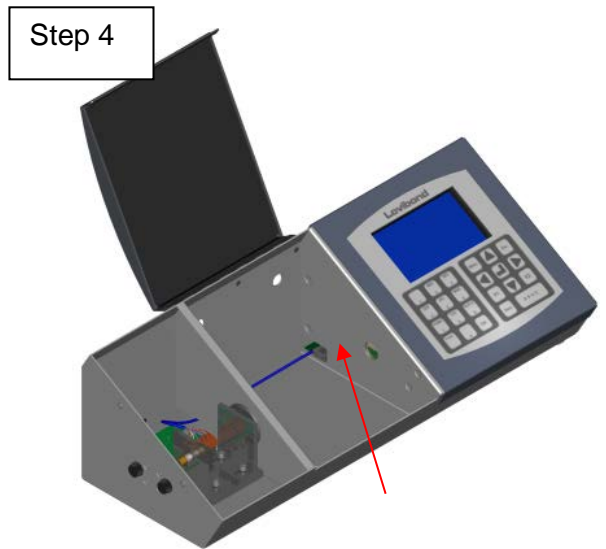Tel: +44 (0) 1980 664800   Fax +44 (0) 1980 625412

Step 1

Left Lid

M3 x 5 pan head screws

Remove the left lid by removing the 2x M3 x 8 socket head screws.

Step 2

Pin Hole Angle

Plano Lens Angle

Ensure the pin hole side of the Optics Assembly is next to the lamp.

Step 3

Plano Lens Angle

Pin Hole Angle

Optics Base

18mm

20mm

Ensure the Plano lens is mounted on the shorter side (18mm).

Step 4

Cut out the template supplied and position on the inside of the sample chamber as shown. Ensure the four holes on the template are aligned with the holes on the sample chamber.

Step 5
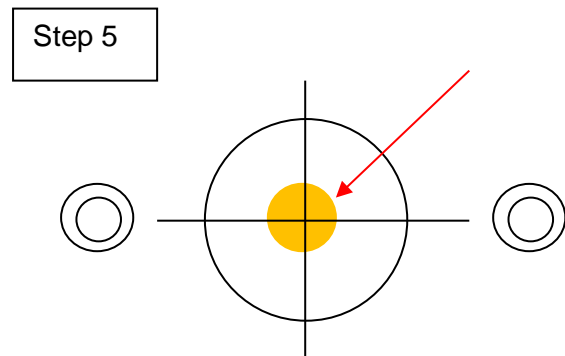
Turn on the power and press "Zero", after a few seconds the lamp will turn on, check the beam of light focuses on the centre of the cross. The light beam should be sharp.

Step 6
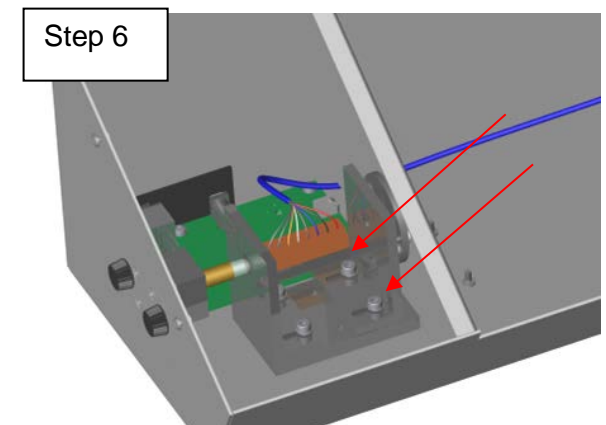
If the beam of light is not aligned, loosen the two M4 x 12 pan head screws as shown and adjust the position of the Plano Lens Angle until the light beam is positioned on the cross. If the lamp turns off press "Zero" again.
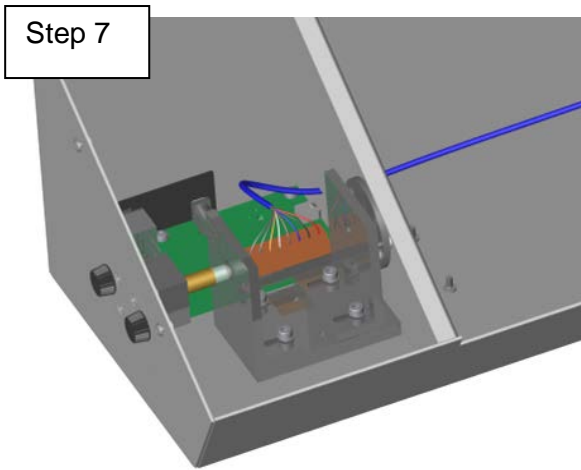
Step 7	Step 8
Once the beam of light is focused, tighten the 2x M4 x 12 screws.	Replace the left hand lid, and tighten the 2x M3 x 8 socket head screws.

After the lamp has been changed, carry out the following:
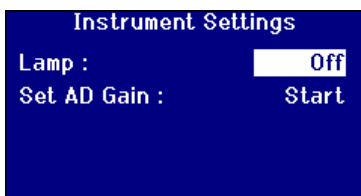

Press **MENU**

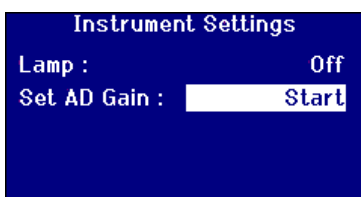Press ⏶ or ⏷ to move the Highlight bar to *"Hardware Setup".*

Press ⏎ to select.

Press ⏶ or ⏷ to move the Highlight bar to *"Instrument Settings".*

Press ⏎ to select.

Press ⏶ or ⏷ to move the highlight bar to *"Lamp".* The lamp can be switched on and off to test the lamp.

After the lamp has been changed, the gain settings of the instrument need to be set. Move the highlight bar to *"Set AD Gain"* and press ⏎ to start the process.

Instrument Settings	
Lamp :	On
Set AD Gain :	In Progress...
Setting Filter :	1 of 10
Gain Pot Value:	11

The process will take several minutes. The display will show the progress of the operation.

Template

1. Cut out the template using the dashed line

2. Alighn the 4x hole positions to the right inside of the sample chamber.

3. Light Beam to focus on centre of cross