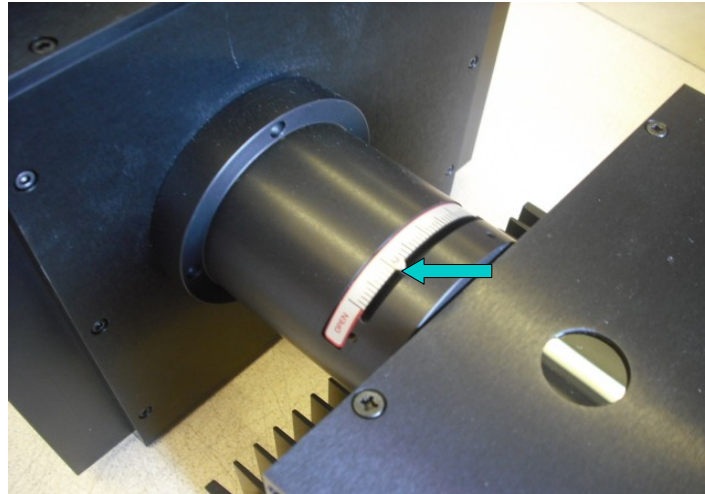


## **Aligning the light source in the Optoscan Monochromator**

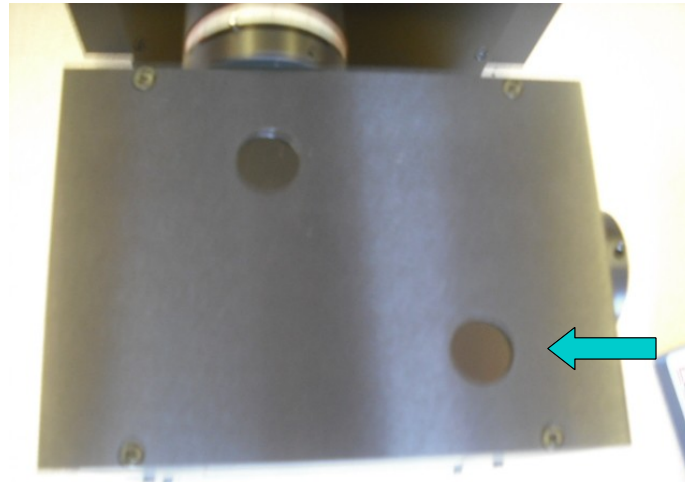
- 1) Ensure the iris between the OptoSource and the OptoScan is fully open.



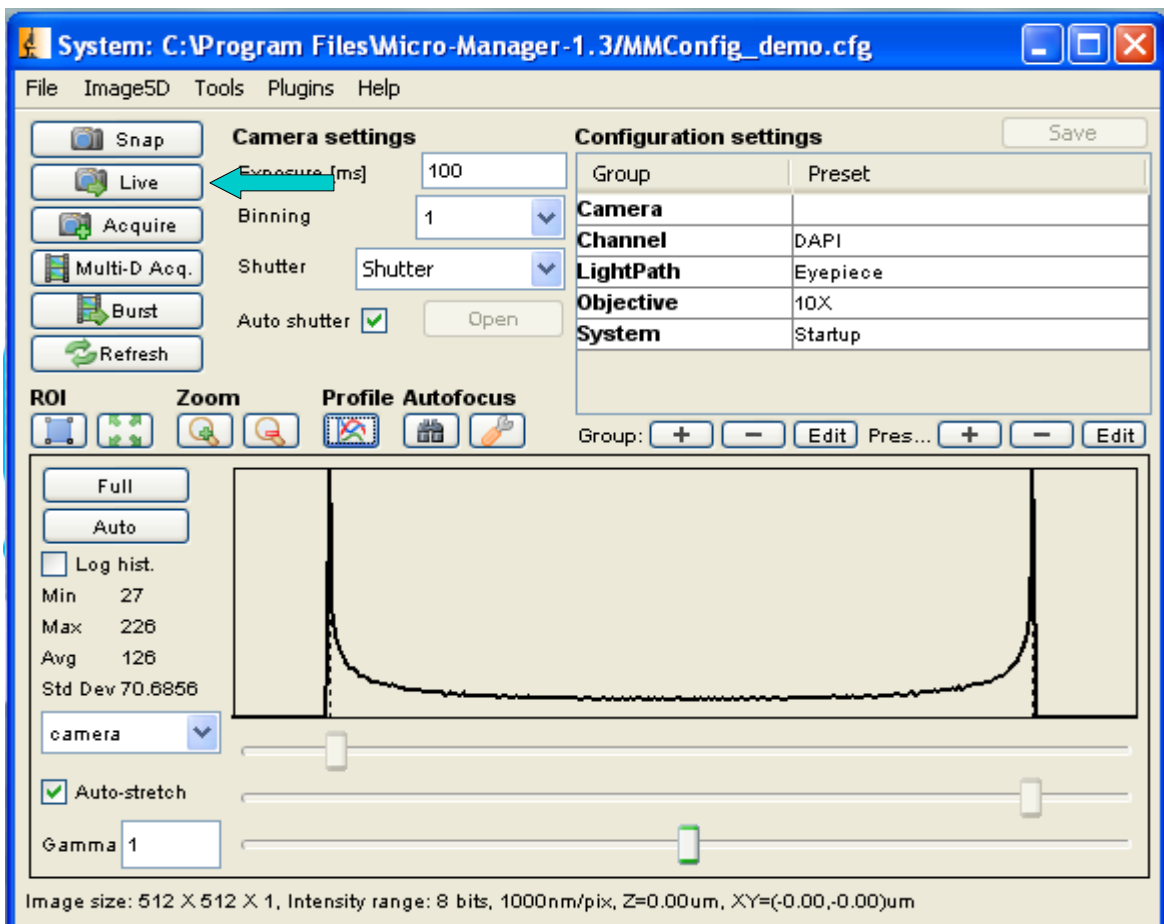
- 2) Ensure the input and exit slits are set to at least 5nm bandwidth (around 500 microns).
- 3) Adjust the vertical, horizontal and focus screws on the lamphouse until the light is focused on the input slit.



- 4) At this point, the grating (viewed through the second window) will be fully illuminated with a clear image of the bulb.



- 5) After the system has been running for at least 30 minutes, image a fluorescent specimen on the software and make final adjustments to all three controls to maximize the signal levels whilst watching a live histogram. This should be performed by making small adjustments to each control in turn until a maximum signal level is achieved.



System: C:\Program Files\Micro-Manager-1.3\MMConfig\_demo.cfg

File Image5D Tools Plugins Help

**Camera settings**

Exposure [ms] 100

Binning 1

Shutter Shutter

Auto shutter  Open

**Configuration settings**

Group	Preset
Camera	
Channel	DAPI
LightPath	Eye-piece
Objective	10X
System	Startup

ROI Zoom Profile Autofocus

Group: + - Edit Pres... + - Edit

Full Auto

Log hist.

Min 27

Max 226

Avg 126

Std Dev 70.6856

camera

Auto-stretch

Gamma 1

Image size: 512 X 512 X 1, Intensity range: 8 bits, 1000nm/pix, Z=0.00um, XY=(-0.00,-0.00)um

- 6) Finally, check that the light guide adapter is focussed and centered by removing an objective lens and placing a piece of paper over the aperture. The focus, X, and Y controls of the microscope coupling should be adjusted to give a clear image of the light guide centered in the aperture.

