

Environmental Control

(Last update: Nov. 2014)

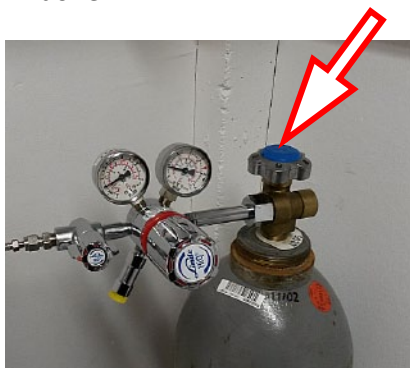
Temperature



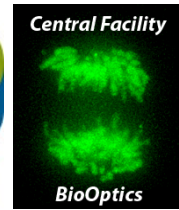
- The temperature controller can be switched on and off independently of the rest of the system.
- To activate heating of the black enclosure of the microscope, press the second button from the left ("CH1", "ON/OFF").
- By default, the system should be running at 37°C. Do not switch off the controller after your session.

CO₂ and Humidity

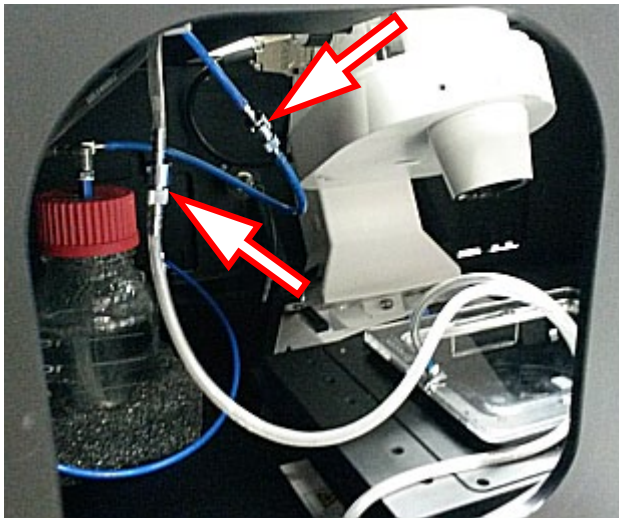
- Gently open the main valve of the CO₂ tank (counter clockwise). Close it clockwise once you are done.



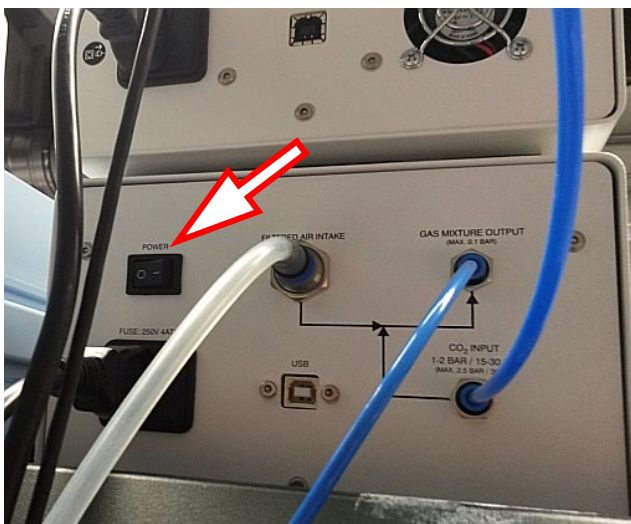
LIVE Spinning Disk/ Nanodissection Unit



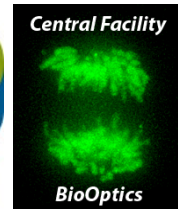
- Check the fill level of the humidifier bottle (on the left in the black enclosure of the microscope). It should contain between 50 and about 200 mL water. To replenish water (deionized, autoclaved water only), disconnect the two luer connectors (of the blue tubing connecting the CO₂ controller with the bottle and of the transparent tubing connecting the bottle with the lid of the CO₂ chamber).



- Power on the CO₂ controller (switch on the rear side of the instrument). There will immediately be flow through the system (humidified air without CO₂).



LIVE Spinning Disk/ Nanodissection Unit



- Activate the CO₂ flow.



Stage Inserts

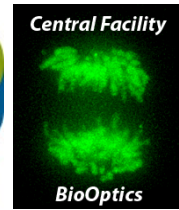
- The drawer under the table to the right of the microscope contains inserts for a variety of dishes (35 or 60 mm) and slides (e.g., Lab-Tek chambered coverglass):



Important:

- When using an insert for two dishes, do not program stage positions to move the stage from one dish to the other in a VisiView sequence. There is a high risk of damaging the objective! Lower the objective to the load position and move manually from one dish to the other using the joy stick.
- Inserts with clamps for high dishes (mounted on high posts) can not be used within a closed CO₂ chamber.

LIVE Spinning Disk/ Nanodissection Unit



- Assemble the CO₂ chamber consisting of an insert, the body of the chamber, and a lid (with or without a slidable window to have access to the sample during an experiment on stage)



- To level the chamber on the stage, you can adjust 8 screws at the corners of the body of the chamber (using an Allen wrench):

