

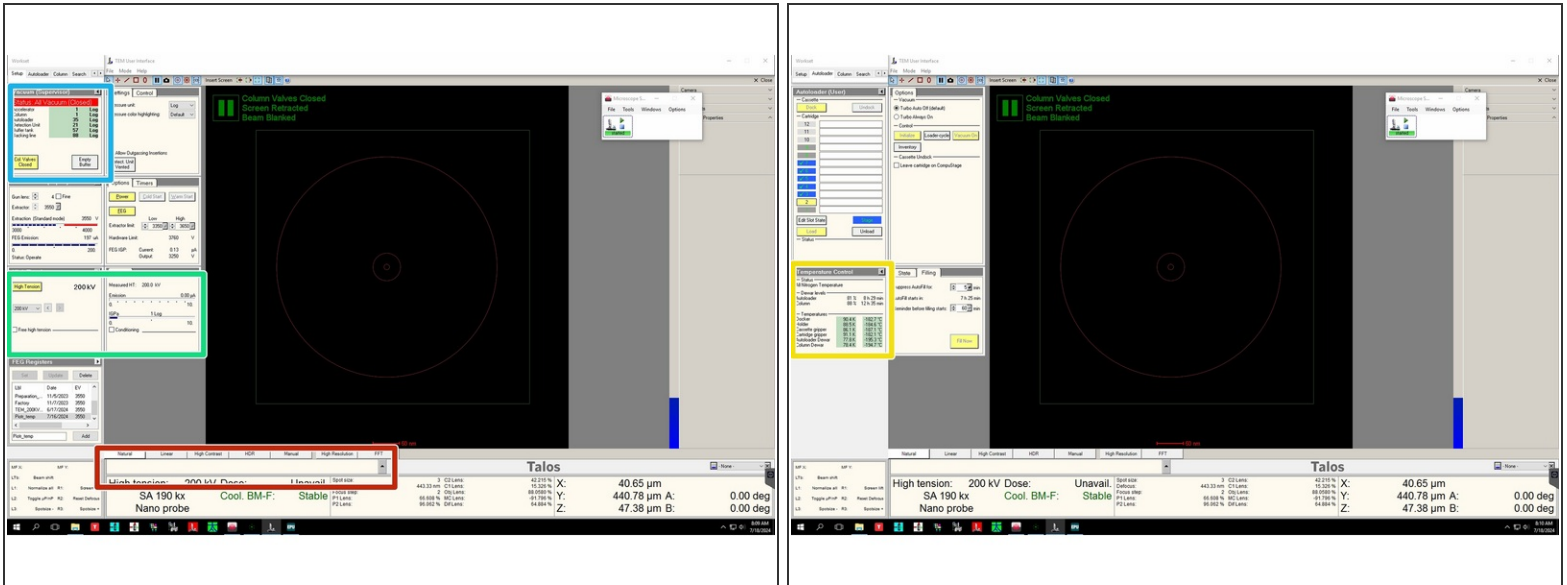
TEM - TFS Glacios G2: How to restart the TEM server/computer

How to restart the microscope computer of the Thermo Fisher Glacios G2 located at the ZMB, Irchel Campus, room Y42-F-64, UZH, Zurich, CH.

Written By: z mbstaff



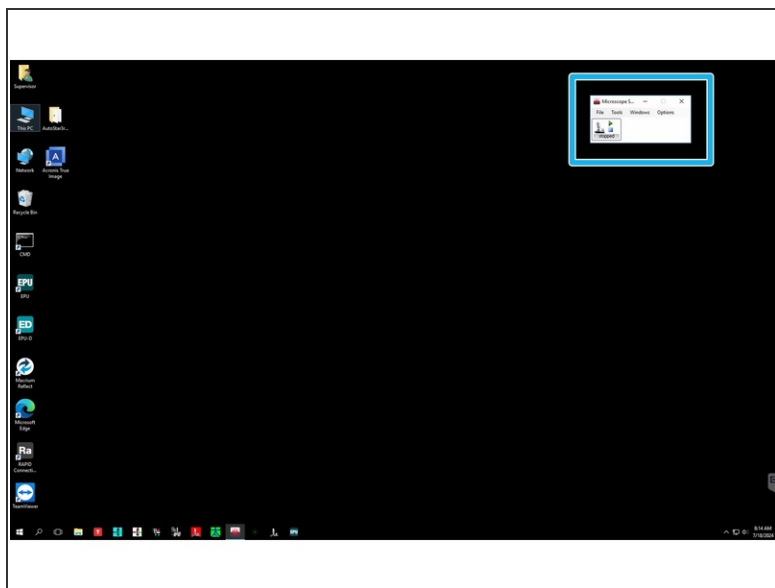
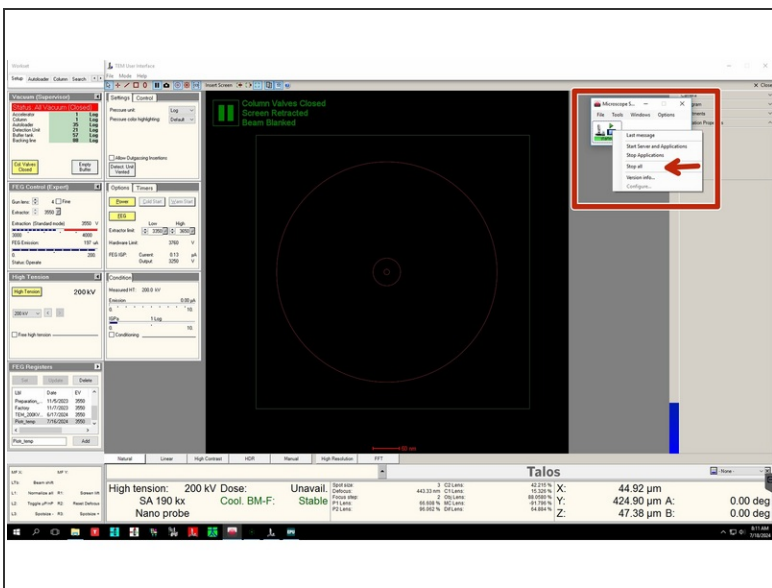
Step 1 — Initial check



⚠ Perform initial checks of the microscope state before you start doing anything - make sure that:

- The system vacuum is in order (all values in green range).
- High Tension is on (at 200 kV).
- There is no error messages in the status window.
- The microscope is at LN2 temperatures (Autoloader tab).

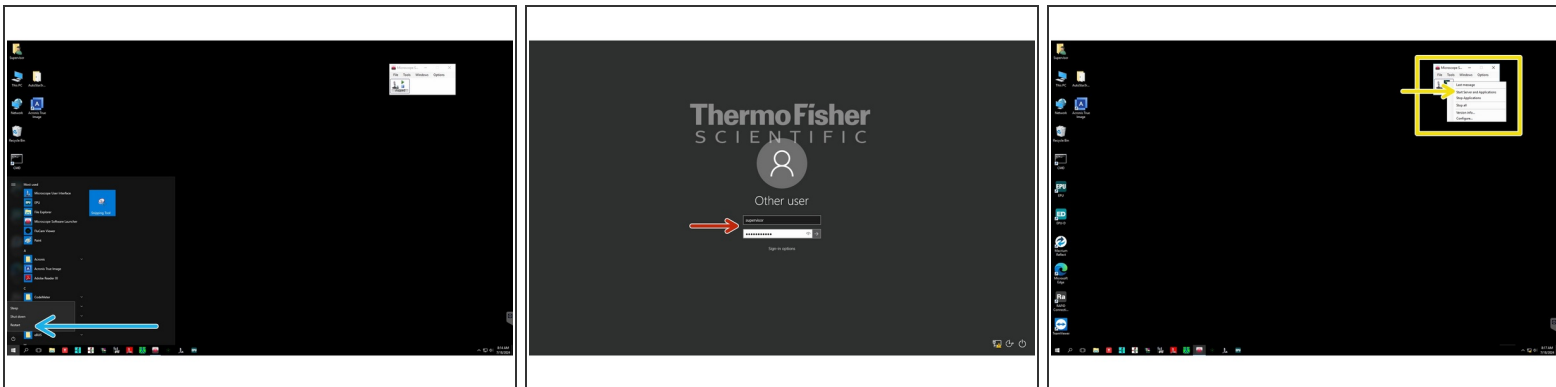
Step 2 — Stop server



⚠ In case the system is unresponsive (e.g. EPU is frozen) you might need to restart the microscope PC. To do so please:

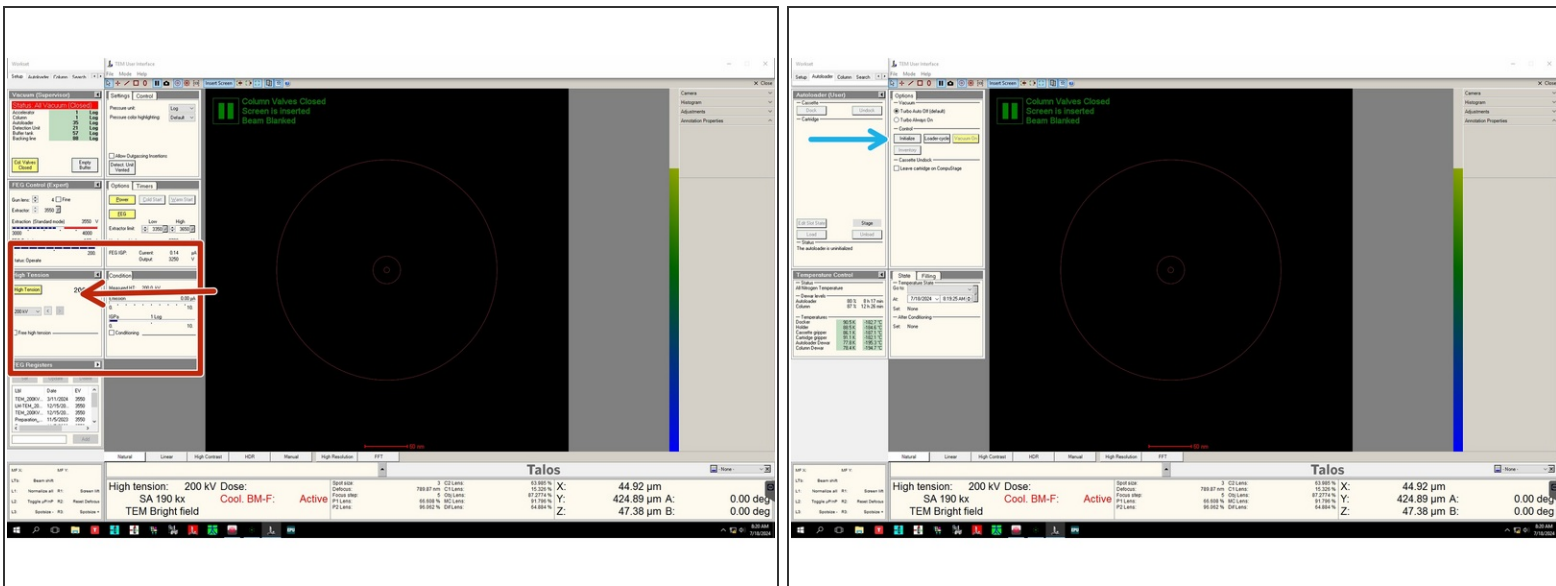
- Click on 'Stop All' (Software Launcher).
- After a while, all the applications should close down and TEM server should stop.

Step 3 — Restart the PC and software



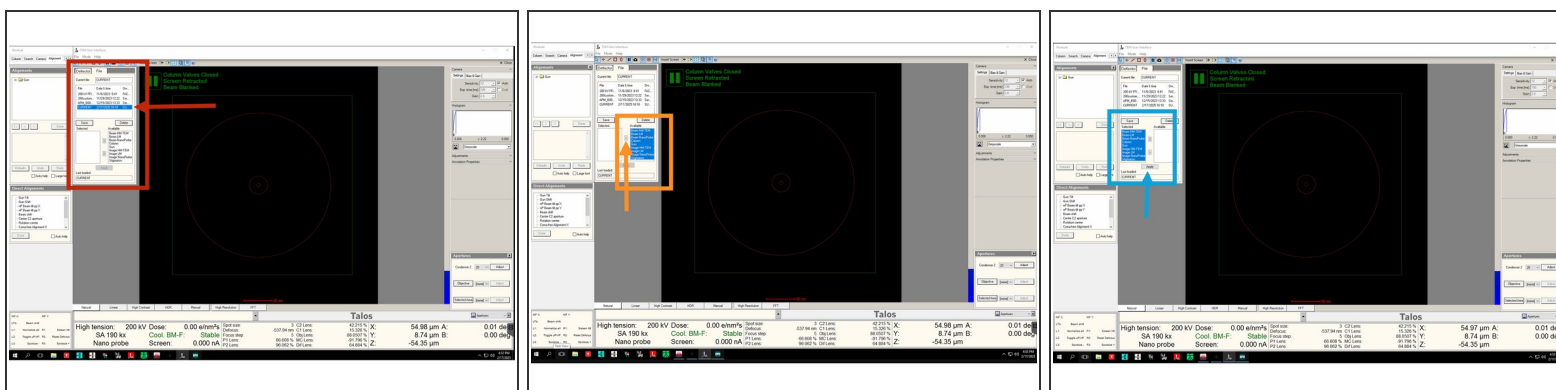
- Click on the 'Start' button and restart the PC.
- After the system has rebooted login using the following credentials: USER: supervisor; PWD: Superuser#1
- Once the Software Launcher has started: right click on the green 'Play' button and select 'Start Server and Applications'.

Step 4 — Restart HT/autoloader



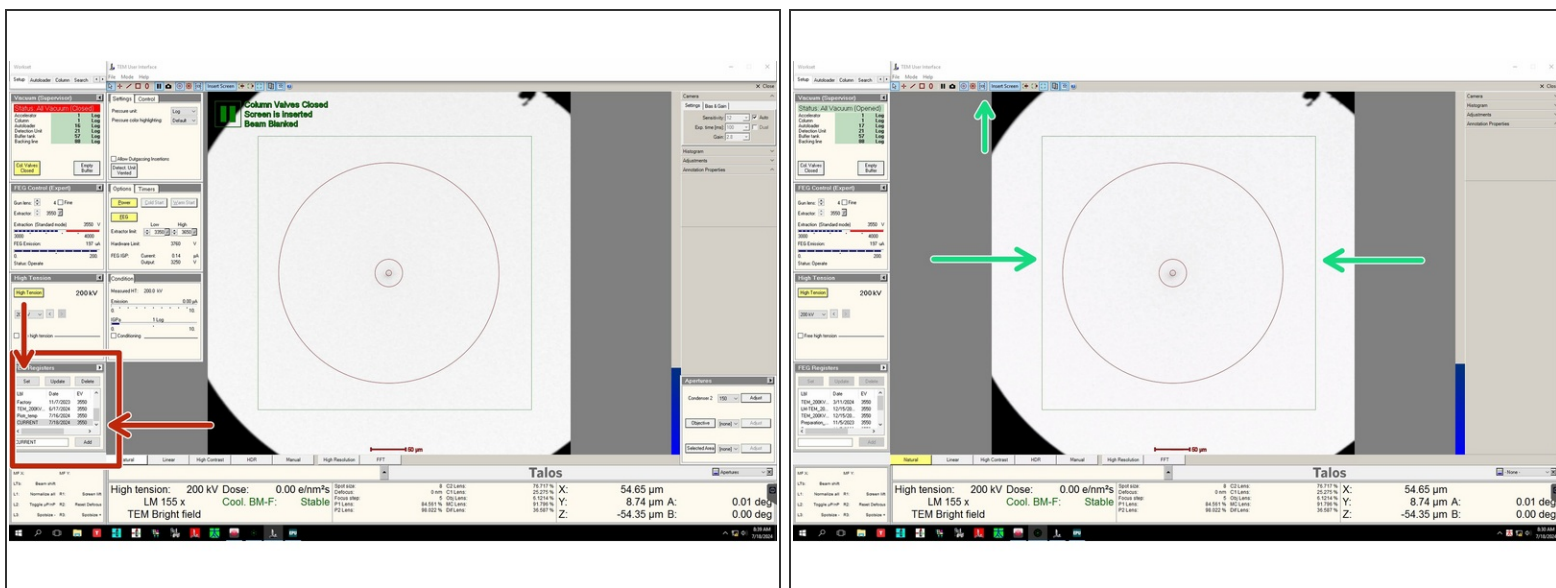
- In case HT is off, click on High Tension button (so that it becomes yellow) and ramp it up to 200 kV.
- Initialize autoloader.

Step 5 — Load alignments



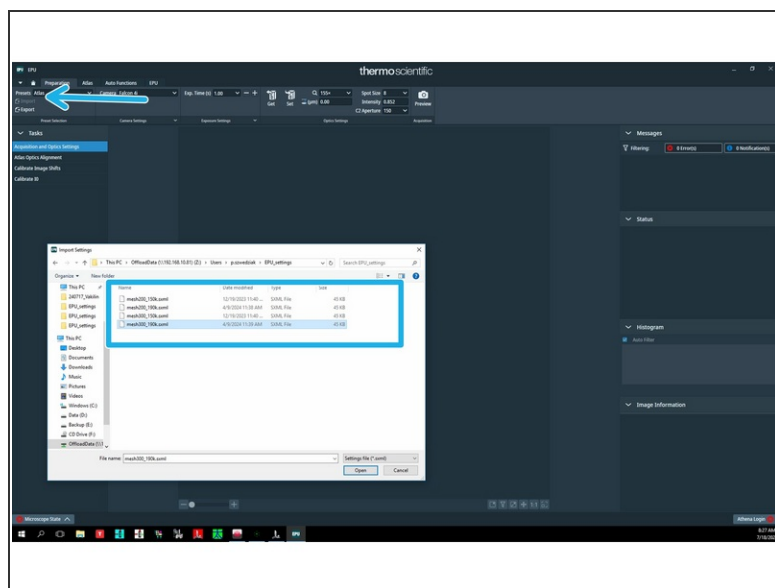
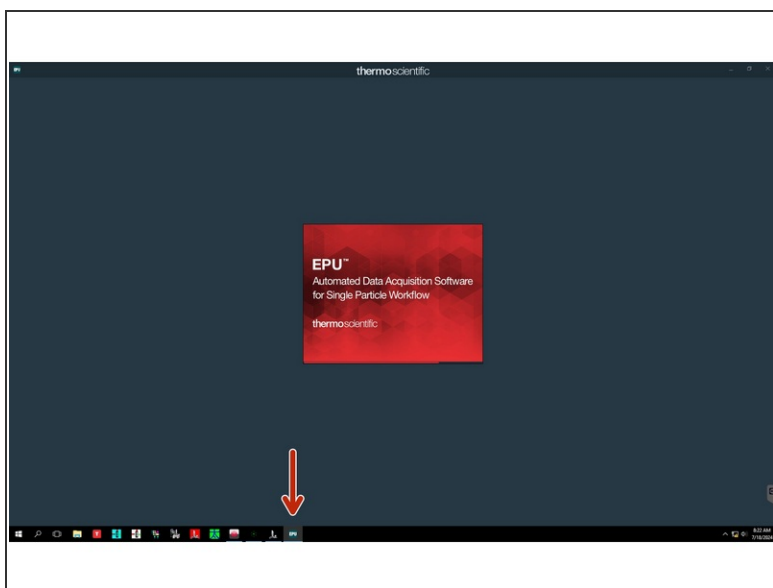
- In 'Alignments' tab load the correct file: 'CURRENT'.
- Highlight all the settings and click the arrowhead to the left.
- Then highlight them again and click 'Apply'.

Step 6 — Load FEG registers/display CCD



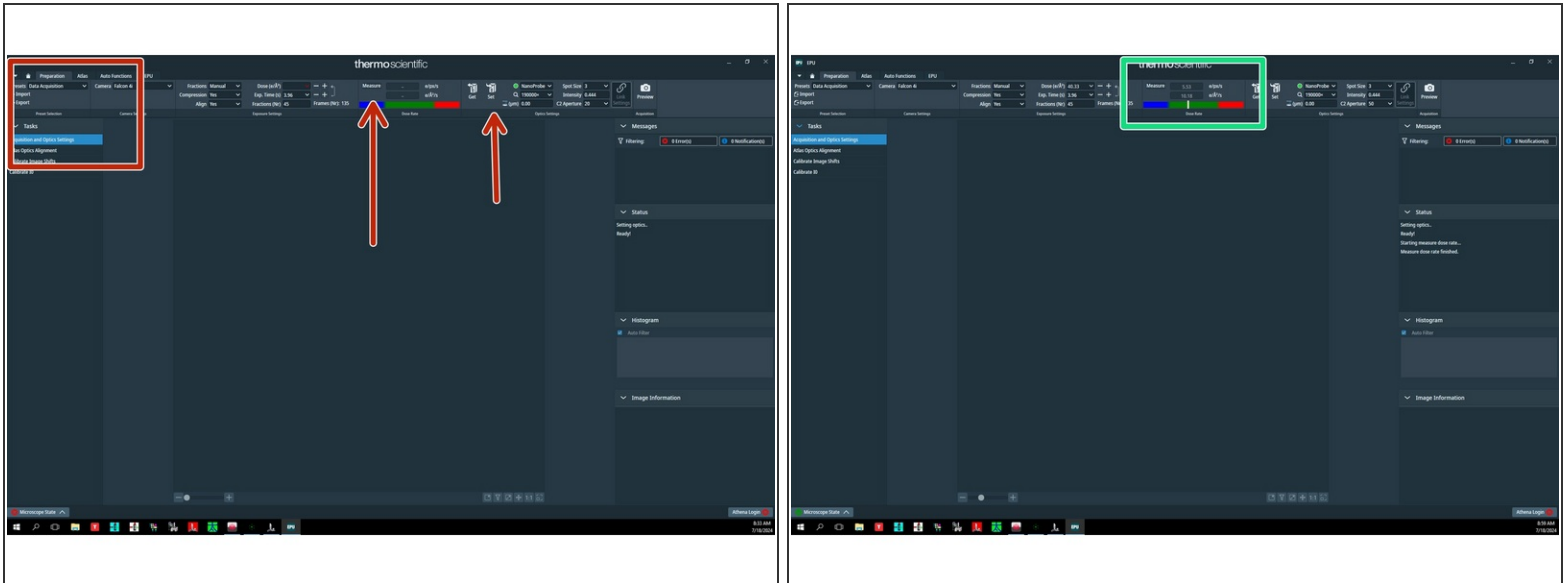
- Load the latest FEG registers by highlighting 'CURRENT' and clicking 'Set'.
- In the Flu Cam viewer click on the 'CCD' button to display the green square that shows the area of the Falcon4i detector.

Step 7 — Restart EPU



- Launch EPU.
- Load your settings by clicking 'Import' and selecting appropriate file.

Step 8 — Measure the electron dose



- Load Data Acquisition presets by clicking 'Set'. Make sure that the beam covers the detector. Then click 'Measure'.
- After a moment, the current electron dose in e/pix/s will show up. Make sure you stay in the green range. The optimal dose is between 5 and 10 e/pix/s.