# Varex Notes

## Mount

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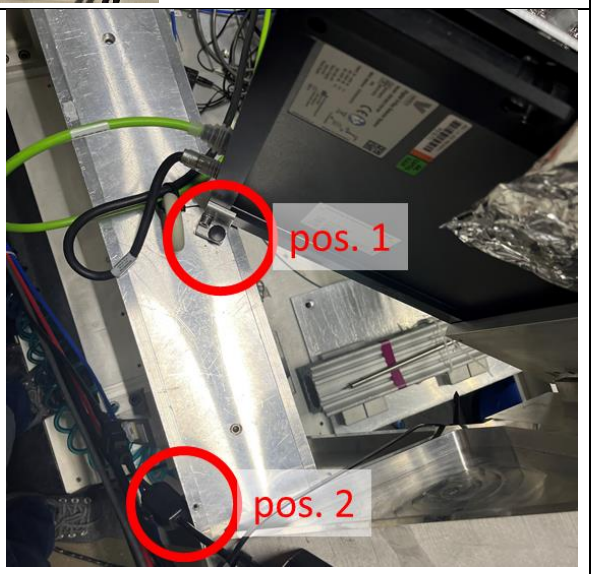
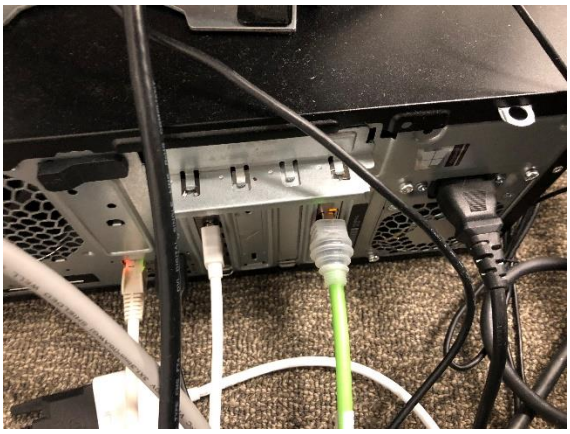



There are two positions for the varex. This is the measurement position, where the normal of the varex is, as much as possible, pointing at the sample.

To switch to the non-measurment (out-of-the-way) position, move the set screw from position 1 to position 2.

## Connections

- Detector has two connections
    - Power cable to power transformer
    - Green ethernet cable to computer
- Computer has two ethernet connections (+mouse/monitor/power/etc)
    - On the right, the green ethernet cable connects the computer to the detector. The top ethernet port definitely works – have not tested the bottom one.
    - On the left, ethernet connection to internet

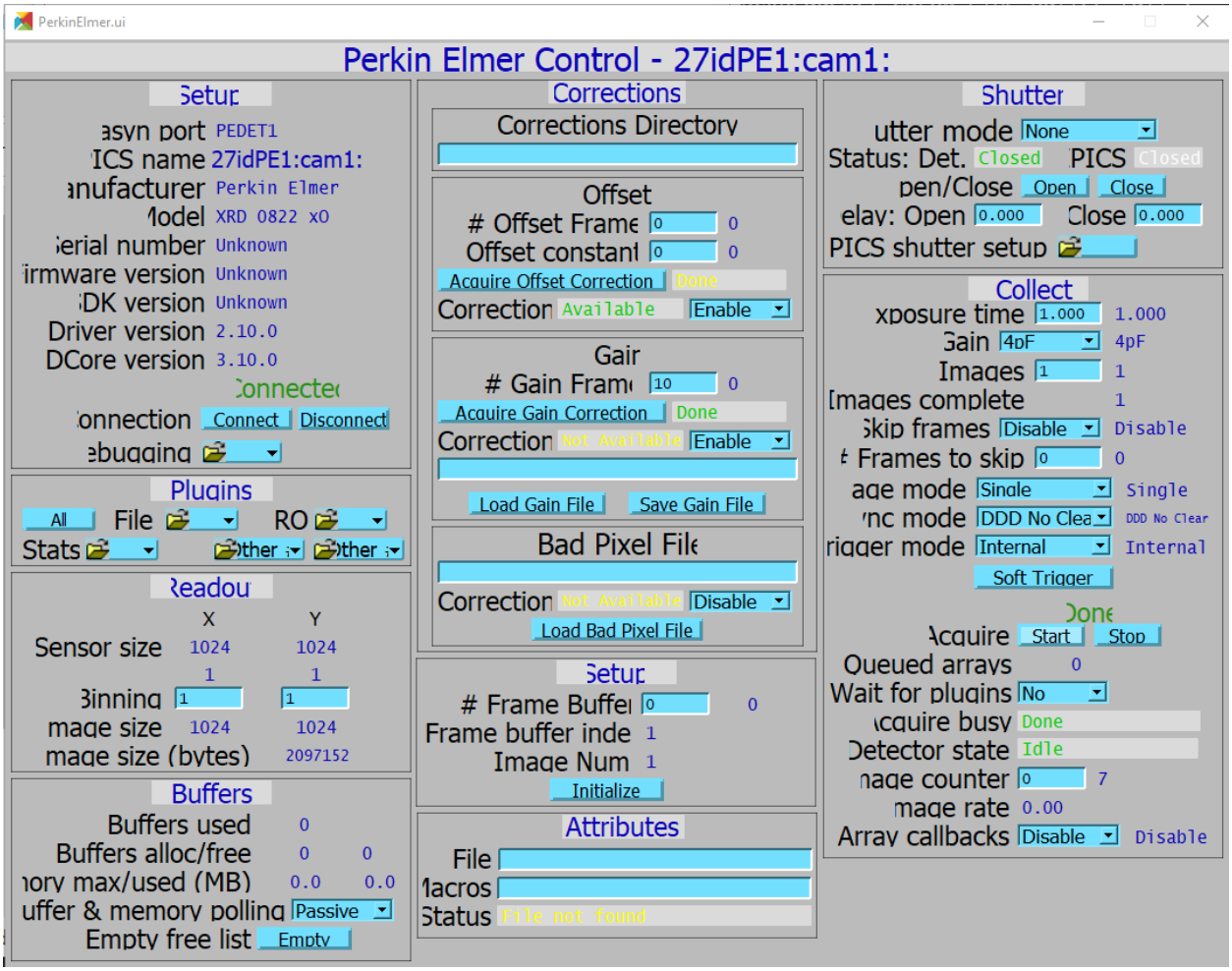


## Software

1. Log into the gotthard computer with ".\sec27admin" and the password welcome*1
2. Click "start epics" to start the ioc.
3. Click "CAQTDM" to start the interface.

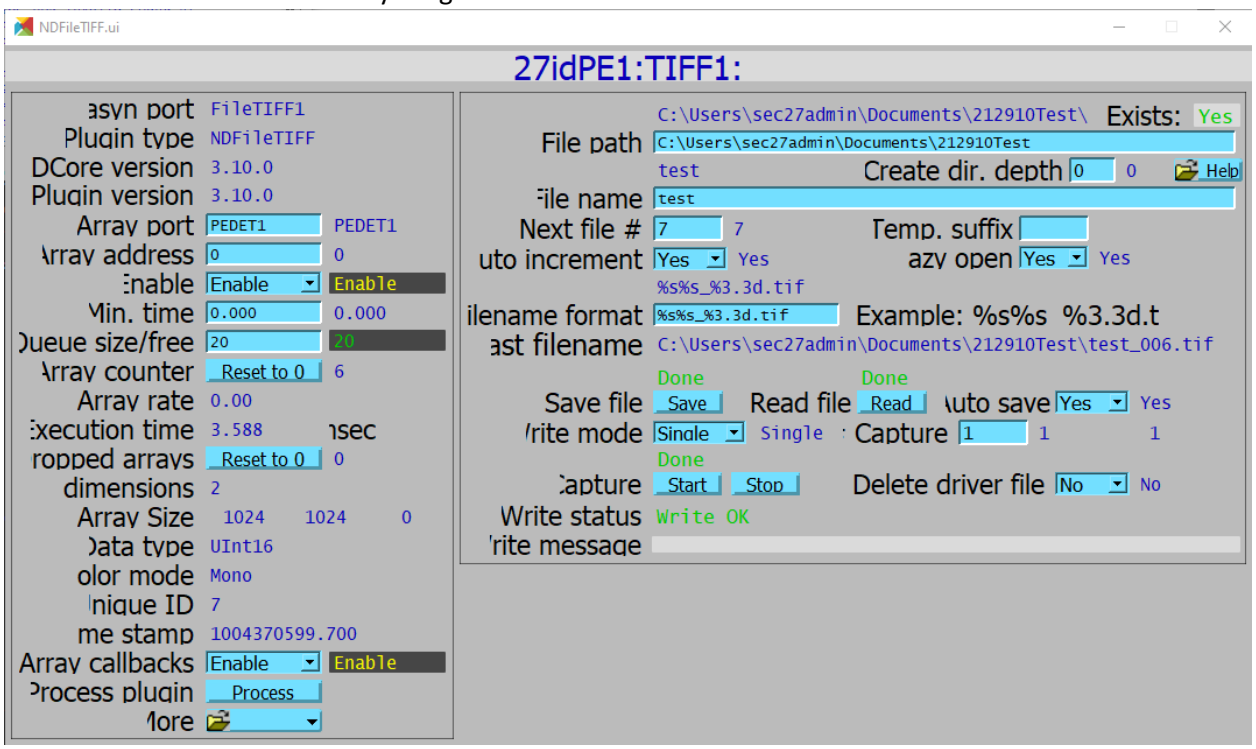

4. Note that the XRD0822 has only two gain capacitors: 1.0pF and 4pF.
5. Make sure to take a background image
6. To take an image
   Image mode: Single
   Sync mode: DDD No Clear
   Trigger mode: Internal

7. Make sure to take a background image using the “Acquire Offset Correction” button without beam. (It’s the box on the top of the center column.)




8. The PV prefix for the area detector is "27IDPE1". So the acquire PV then would be "27idPE1:cam1:Acquire".

9. Here is the tiff screen with everything correct.




## Reading the data

Open ImageJ in $HOME/ImageJ-new and look at 27idPE1: image1:

If you don't see anything on the screen, but do see counts in the ROI, it may be a problem with ImageJ.