# Varex Notes

#### Mount



### 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.

MDFileTIFF.ui	- X
27idPE1:TIFF1:	
asvn port FileTIFF1 Plugin type NDFileTIFF DCore version 3.10.0 Plugin version 3.10.0	C:\Users\sec27admin\Documents\212910Test\ Exists: Yes File path C:\Users\sec27admin\Documents\212910Test test Create dir. depth 0 0 CHeb File name test
Array port PEDET1 PEDET1 Array address 0 0 Enable Enable I Enable	Next file # 7 7 Temp. suffix uto increment Yes Yes azy open Yes Yes %5%s_%3.3d.tif
Min. time 0.000   Jueue size/free 20   Array counter Reset to 0   6	ilename format <a href="https://www.sec27admin/Documents/212910Test/test_006.tif">ws/ws/ws/ws/ws/ws/ws/ws/ws/ws/ws/ws/ws/w</a>
Array rate 0.00 Execution time 3.588 sec ropped arrays Reset to 0 0	Save file Save Read file Read uto save Yes Yes /rite mode Single Single Capture 1 1 1 Done
dimensions 2 Array Size 1024 1024 0 Data type UInt16	Capture Start Stop Delete driver file No No Write status Write OK 'rite message
olor mode Mono Inique ID 7 me stamp 1004370599.700 Array callbacks Enable _ Enable	
Process plugin Process	

## 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.