3/29/2023

Setup a simple gui window for looking at data live and setting up a scan

Diagram

Description automatically generated

The data collection is done asynchronously via the “threading” module

Next additions:

* ROI additions
  + Square (we don’t need sophisticated live analysis…)
  + Separate ROI’s for data and signal
  + We can plot each separately along with the difference during the scan
  + Plot window on this pre-scan screen that just plots the intensity of the roi’s vs true time
* Button additions
  + Exposure and gain adjustments
  + Save image
  + Save image set
  + Scan settings entries
    - Array notation for setting positions in a scan
    - Motor wait time
    - Batch size

3 April 2023

Additions:

1. Line profile updates when clicking on image to click location
2. Buttons for adding ROI
3. Fast zoo

4 April 2023

Additions:

1. Square ROI
2. New Buttons
   1. Exposure
   2. Gain
   3. Update button on camera settings
   4. Delay stage position entry + button
3. New plot window for live intensity + window with average and error bar
4. Save image button for cam image
5. Remove inbuilt matplotlib figure controls