

Data Acquisition: Primer

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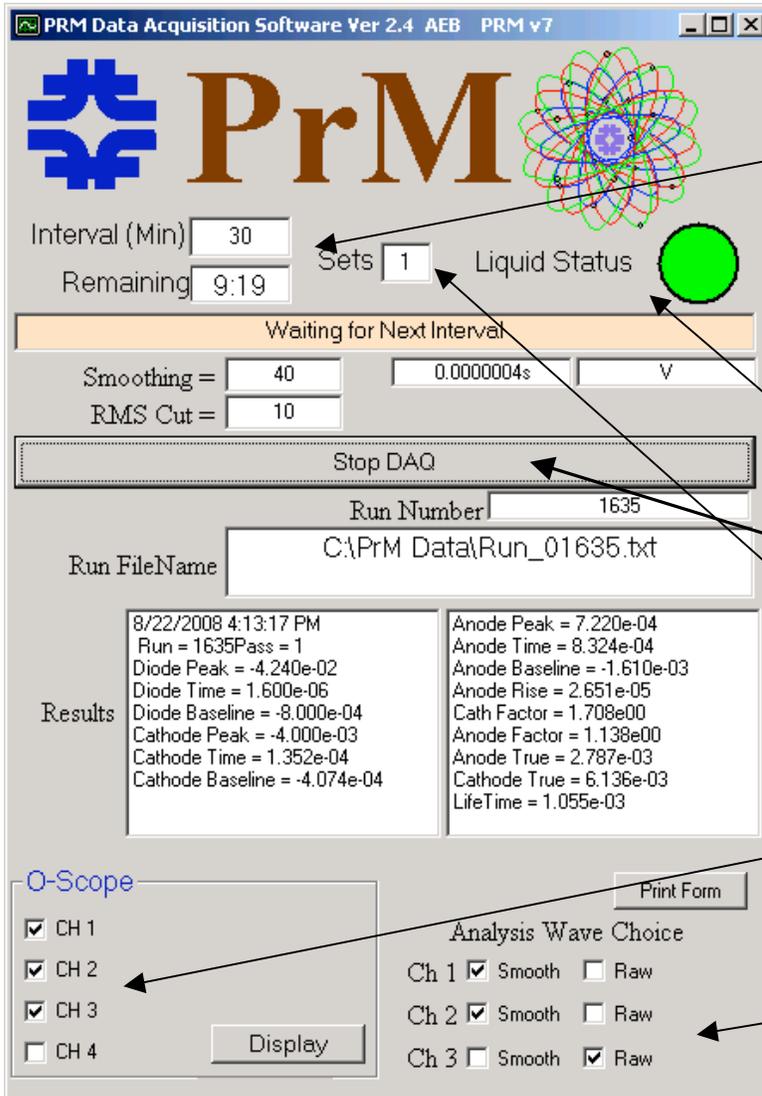
Scope: Ch1, 2 and 3 on; Ch1 & 2 at 1 MOhm, ch3 at 50 Ohm and inverted (down arrow).
On Menu bar: Display: Horiz/Acq -> Acquisition Mode -> Avg, 200 microsec, 2.5MS/s
400 ns/pt, Ch1 and 2 to see signals (2 mV minimum), Photodiode in Ch3 inverted

Nim `HV Relay Module' set to Remote Control (set to Local to check voltages)

Walter's Box on top: set to Auto. and RUN. The box turns the power to the flash-lamp on and off in response to a signal from the DAQ program. The power goes off after 100 seconds to prevent damage to the light-fiber in case something happens to the computer or the program. The timing-fault light goes on. Push Reset to resume operation. **If the computer is off, the flasher may run. Set the lower switch on the box to OFF.**

The data acquisition program is called PRMv8 –shortcut on the desktop. The user sets the interval between sets and how many readings per set. Once the Liquid Status disk is green and the parameters in the boxes below are set, press the Start DAQ button to start

To take a reading –right now -, press Stop DAQ and then Start DAQ.



Minutes between readings
To change, highlight and type new value. The lesser of the time to the next reading and the new interval will show – be patient

Interlock: If the disk is red, double-click on Liquid Status to run.

Click to Start and Stop DAQ

How many data sets are taken each reading (usually set to 1)

Ch1 ,2 and 3 ticked

Ch1 & 2 Smooth, Ch3 Raw (takes 2 clicks to set)