







- Mount Cantilever
- Laser Alignment (Knobs and Camera  )
- Detector & Mirror Alignment (Knobs and Detector  )
  - SUM ~ 2.0 V
- Chose Measurement Mode: AC / Contact / QI / Force Modulation
- Cantilever Calibration → Choose Cantilever 
- AC Feedback Mode Wizard 
  - Usually Point = 70-80% of Drive Amplitude
  - Drive Frequency: choose slightly left of the maximum



- Navigate to Sample and Approach next to surface
  - Engage/disengage X/Y stage to navigate OR approach 

- Approach and Measure 
  - Adjust GAIN in a way that trace & retrace superpose (oscilloscope)
  - the higher the sample or velocity of cantilever line rate (line rate/x-y-dimension) the higher the gain has to be.

