

High Performance Ellipsometer FEIII

Please Do Not Use This System Without A. Ghaffari's Permission X 3984
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- Turn On Entire System:

- Push green button
- Power on (White Switch)
- Turn on Main Circuit Breaker
- Turn on Monitor
- Turn on Vacuum Pump

- On Computer go to:

- "Focus Ellipsometer" and double click
- "Focus Interactive" and double click
- "Load Wafer" and click once
- "Manual Load" and click once, then it say "Please load wafer"

- Loading Sample & Measuring:

- Open safety door
- Larger wafer than 2 inch just place wafer on sample holder (make sure to center the sample on the holder).
- If wafer is smaller than 2 inch? First place 3 inch wafer on sample holder then place your sample on top of 3 inch wafer.
- Close safety door
- Click OK
- New Wafer Specification shows up (Do Not Do Anything)
- Just click Enter
- Then on "Site Locator" go to "Filmstack" and click
- On "Filmstack Selection" chose your "Filmstack (example Si₃N₄ < 500A or some other material)", Note you can have your own recipe. Then press Enter.
- Window for Si₃N₄ < 500 A shows up with structure.
- Click on Your Layer (Si₃N₄)
- Then layer 1 View shows up
- Choose Layer A and index of refraction N
- Then Enter
- Click Measure – on the menu
- Then it shows calculated parameters in few seconds
- Now if you want different part of sample to measure
- Move sample around
- Then click measure
- If you want to see graphical output just click yes.

-Unloading

- Go to load wafer
- Click on unload

- Open safety door
- Take your sample
- Close safety door
- Push Enter or OK
- Click close
- Turn off Vacuum Pump
- Turn off Main
- Turn off power (white switch)