

*This guide obtains just brief information. In case you need detailed instructions, read the Woolam IR-VASE manual. It is recommended to read the **Safety Instruction and Basic Troubleshooting** manual prior to your work.*

## Woolam IR-VASE

### Starting the measurement

1. **OPTIONAL:** Switch on Control Module (fig. 2) **ONLY** after shutdown (also check the spectrometer power and light source /glow bar/ supply)  
The instruments are normally left running.. (including the power supply for the light source)
2. Start SW (program VASE-IR on desktop)
3. Alignment of the sample
  - a. Switch small (orange) pump under the table
  - b. Put in the sample, if rectangular, then along the beam (switch for vacuum on the bottom Release-Hold)
4. Alignment of angles
  - a. Menu → Motors → Incidence angle → 60 (check!)
  - b. Menu: Align → Align sample tilt
  - c. Align the cross to the center. If the intensity is too low (<1), the laser fails to hit the detector and it is necessary to get it centered with the help of a paper. Typical intensity is >10
5. Alignment of z-position:
  - a. Menu → Motors → Incidence angle → 60
  - b. Close the iris at the detector side
  - c. Menu → Align → translate sample stage (laser), the spread of reading is dependent on the resolution, you may decrease the resolution to speed up (manual knob on the spectrometer)

**No calibration needed** (unlike VIS-VASE)

### Measurement notes

1. Open the iris at detector and source side
2. Menu → VASE → VASE Scan
3. Load settings, in D:\users\IR-VASE folder, are stored standard settings
4. Angle smaller than 45 deg is not possible
5. Resolution is set manually on the spectrometer
6. Start the measurement

## Finishing the measurement

- Do NOT switch the instrument off
- Only turn off the vacuum pump for the sample
- Close the iris at the detector and spectrometer side (protects the polarizers)

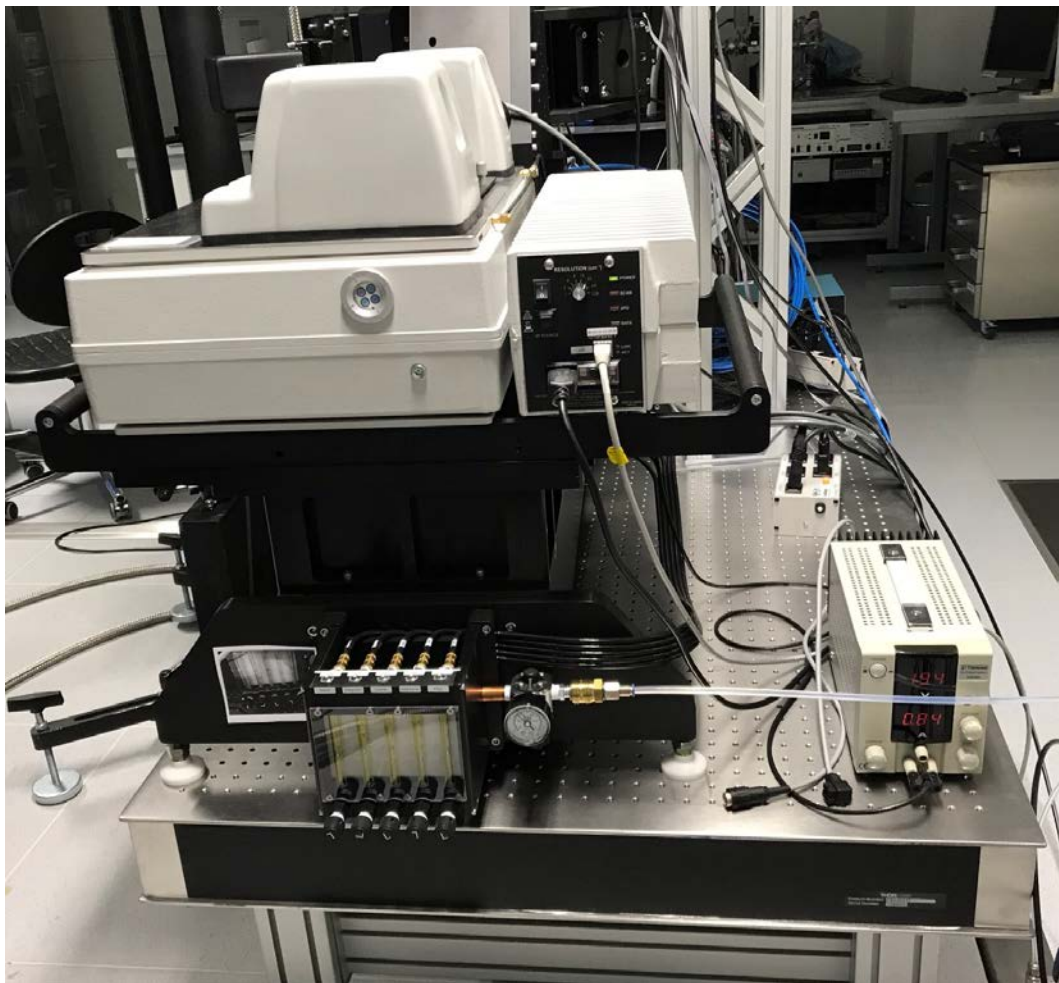


Figure 1: main switch of the Fourier spectrometer and power supply (bottom right)