



7-Step Scanning Software has an intuitive design intended for routine scanning by operators with limited experience, as well as experienced users that want to do repetitive scans. The user-friendly design covers the 7 basic steps necessary to obtain an AFM image, with enough flexibility to scan a wide array of samples.

In addition to the 7 steps, there is a capability to measure force-distance curves. Additionally, there is a setup window that allows advanced operators to set background parameters such as HV gains, and tip approach parameters.

The 7 Steps are:

- ▶ **Select Scanning Mode**
- ▶ **Align the Laser**
- ▶ **Align Photodetector**
- ▶ **Measure Resonance (optional)**
- ▶ **Tip Approach**
- ▶ **Scan Sample**
- ▶ **Retract Probe**

Upon opening the software, all of the activity windows are greyed out. When one of the seven steps is selected, the activity window for that action becomes visible. The steps do not have to be initiated in sequential order.

When scanning samples, two display channels are available, Topography or Error and Phase. There are two sliders available to control the probe sample interaction (setpoint), as well as the probe tracking responsiveness.

Scans are saved in the standard AFMWorkshop format and can be opened with Gwyddion Software.