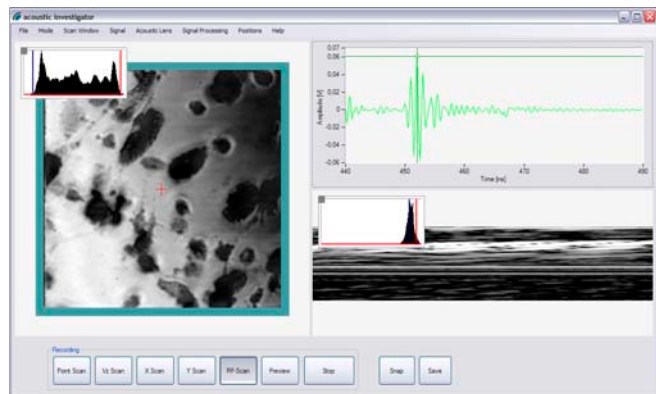


SASAM® ACI

Acoustic Investigator

- fully featured acoustic and optical data recording
- rf data (volume), V(z) curve,
- single point, line scan option
- automated multiple roi recording
- synchronous optical and acoustic longterm measurements



The SASAM® Acoustic Investigator software is used to control the recording of acoustic data and optical images.

Features:

RF-Data recording – Amplified echo transients are digitized and stored with up to 8 GSamples/s giving access to true undisturbed raw data.

Online C-scan, B-scan, A-scan and V(z) mode - B-scan, A-scan and V(z) recording are possible at any position within the scan range and can be selected by moving a cursor over the image.

Predefined optimal parameter settings are stored for every acoustic lens. This enables the user to easily start experiments without going through multiple dialogs.

Arbitrary parameter settings are possible for scan area, scan resolution, averaging, prf, A-scan length and delay.

Raw data storage - All data is stored unprocessed on the hard drive together with all relevant recording parameters.

Experiment based data storage – All relevant information of your experiment is stored in an automatically generated sample referenced database.

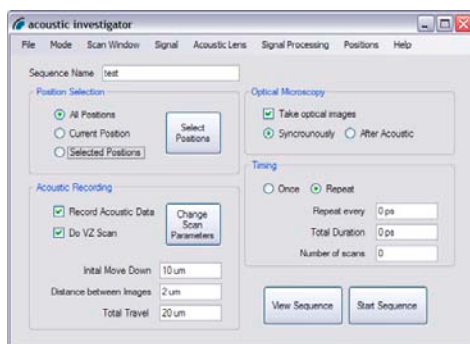
Graphical Selection of regions of interest - regions of interest for specific analyses are selected in the referenced optical overview image of your sample.

Automated recording - Recording of large volume data at multiple regions of interested and different z-positions can be a lengthy process. With the automation feature the process is done by the software without need for the users attention.

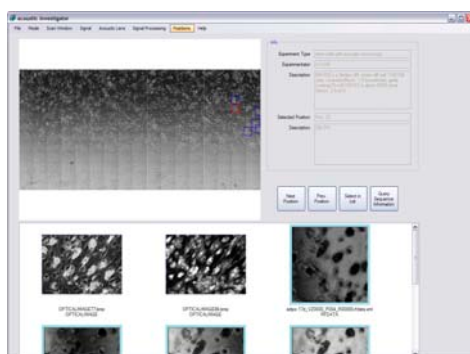
Online generation of amplitude, integral and time of flight images - During data recording online images are generated from the raw data. It is possible to switch between the different modes and the image will be recalculated. After data recording the data is held in the memory and can be viewed, analyzed and stored in all different modes.

Optical microscopy support - While the program is not intended to replace a fully featured software for optical microscopy the program has an easy to use optical microscopy module. Together with the automated recording and experiment based data storage the program covers most applications of the optical microscope.

Automated long term measurements - In addition to the automated recording of data of multiple predefined regions of interest it is possible to repeat the process by observing a sample over a prolonged period of time.



Easy to use automation feature with time lapse function



Optical overview of the sample with regions of interest