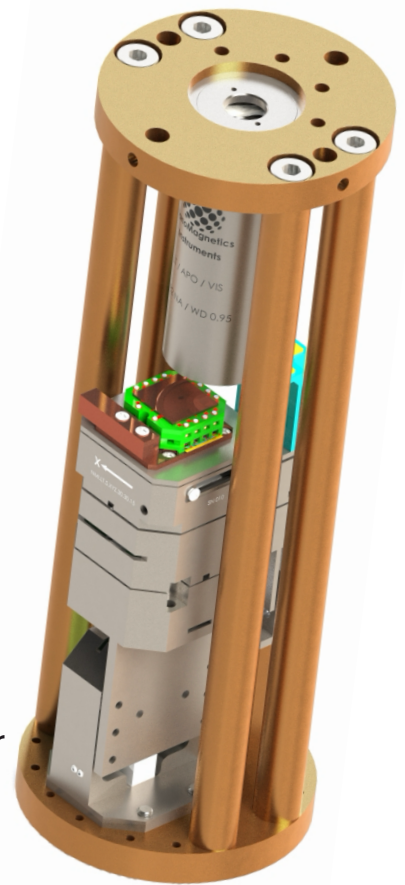


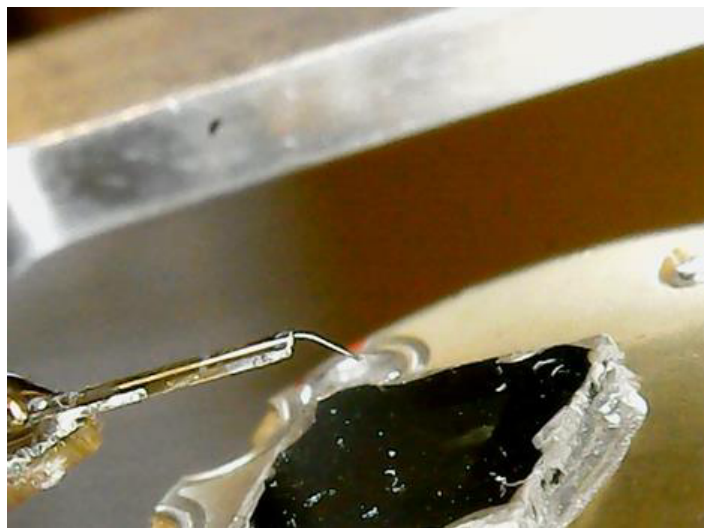
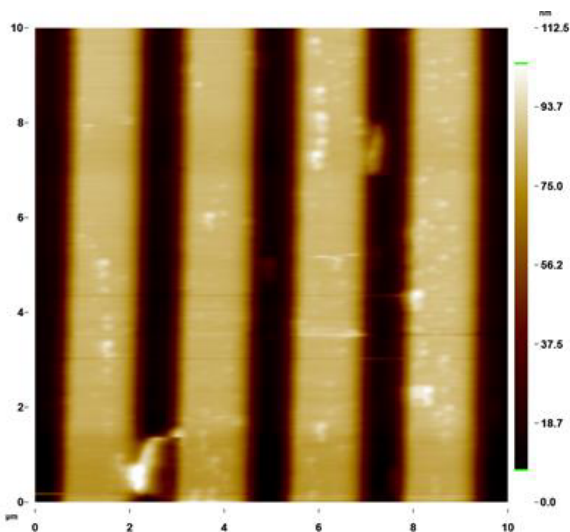
Low Temperature/mK Nitrogen Vacancy (NV) Centre Microscope

Specifications

- High NA APO Objective, 0.82NA / 0.95mm
- 532nm, SLM 10mW Laser
- 30x30x15 μ m Scan area @4K
- 49mm Outer Diameter
- 10mK to 300K temperature range
- APD for optical detection
- 8 pin connections for experiments
- 6x6x12mm Range XYZ Sample Nanopositioner
- 4x4x6mm Range XYZ Nanopositioner for NV/QTF Sensor
- 200nm resolution resistive position sensors



Self excited Quartz Fork Based AFM and Calibrated Tuning on Sample: Grating



NANOMAGNETICS
INSTRUMENTS

Address : Suite 290, 266 Banbury Road, Oxford U.K.

Phone : +44 186 552 2989

Mailbox : sales@nanomagnetics-inst.com

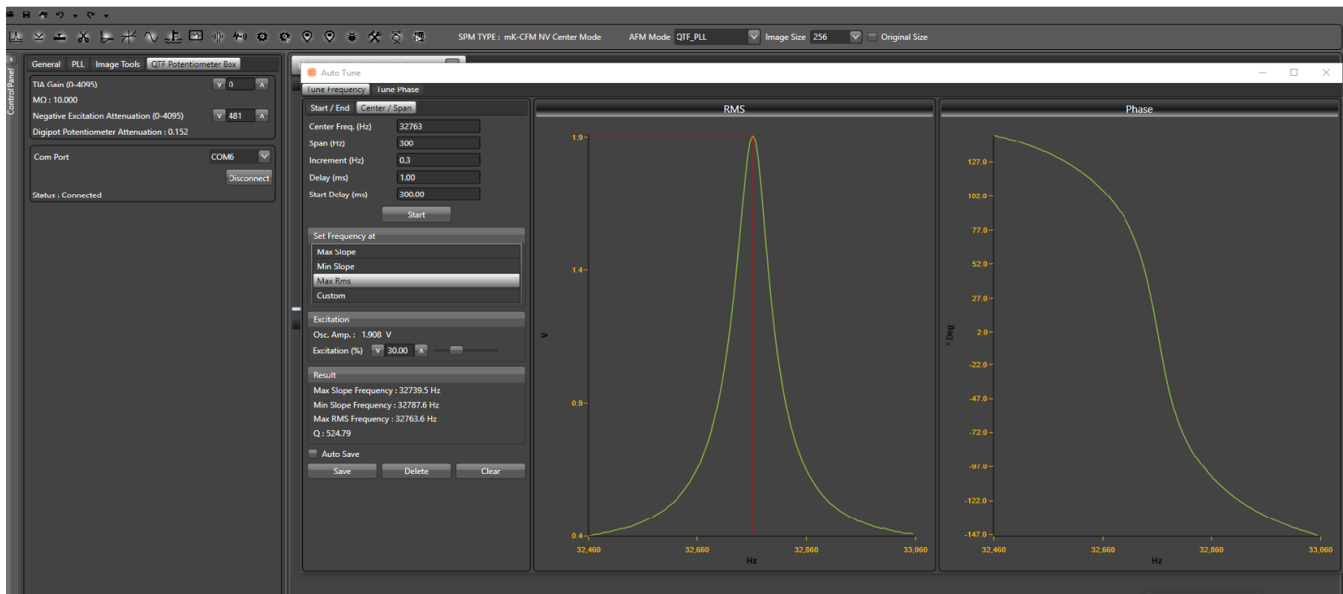
www.nanomagnetics-inst.com

NV Centre Microscope Control Electronics

Specifications

- State of the Art Ultra Low Noise FPGA Based
- AFM Controller with High speed USB interface
- 32 Bit Real time Processor with 128MB DDR SDRAM
- 2 Channel 16Bit/100MHz ADC
- 2 Channel 16Bit/100MHz DAC
- 7 Digital PID Loops on FPGA
- 19 Channel Piezo Nanopositioner Controller
- 16 Channel 24Bit/175kHz ADC
- 24 Bit DACs for XYZ Scan Signals
- Low Noise High Voltage Amplifiers

Resonance Frequency for Self Excited Quartz Tuning Forks



NANOMAGNETICS
INSTRUMENTS

Address : Suite 290, 266 Banbury Road, Oxford U.K.

Phone : +44 186 552 2989

Mailbox : sales@nanomagnetics-inst.com

www.nanomagnetics-inst.com