ImageControl_2.vi Front Panel

11pt Application Font

Operation | Controller & Model | Instrument Connection

**Scan Definition**

| Scan Center | Scan Range | No. of Points |
|---|---|---|
| 0 nm | 1 nm | 1 |
| 0 nm | 1 nm | 1 |
| 100 nm | 750 nm | 31 |

Scan Tilt: X axis 0.00 deg, Y axis 0.00 deg

**Inferred Scan Parameters**

| Voxel Spacing | No. of Voxels |
|---|---|
| Inf nm | 31 |
| Inf nm | Est. Voxel Time 111.00 s |
| 25 nm | Est. Scan Time 0.96 h |

Scan Order: row-by-row

Save Period: every point

**Experiment Comment**

Experiment data will be tagged with this comment.

Begin Image | Stop Image | Check I/O | Scan Time

**MRFM parameters**

MRFM
- Sample Number: 1024
- Sample Rate: @ 16 Hz
- Time Constant: @ 1 s
- Roll-Off: @ 6 dB/Oct

Spectrum Analyser: HP 35665

Protocol: MRFM/adaptive

Lockin: SR850

Cantilever Controller: Cantilever Q 200

Transfer Function
- Sample Number: 320
- Sample Rate: @ 32 Hz
- Time Constant: @ 0.1 s
- Roll-Off: @ 12 dB/Oct
- V_trans: 322.0 mV

RF Settings
- RF Frequencies: 0; 2 GHz; 0 GHz
- Duty Cycle: 0.29
- RF power (dBm): -25.0

**Comm**

Scanner
- Address: 128.95.165.215
- Port: 2055
- Enable

Cantilever Control
- Address: 128.95.165.157
- Port: 6340
- Enable

GPIB Enable

XY-plane

XZ-plane

Lock-in Busy

X - pm: 4.63, 0.00, -4.03; 0, 200, 400, 600, 800, 1024

Y - pm: 4.42, 0.00, -5.19; 0, 200, 400, 600, 800, 1024

| Command Position | Current Position | Piezo Voltage in-range |
|---|---|---|
| 0 | 0 | |
| 0 | 0 | |
| -300 | 0 | |

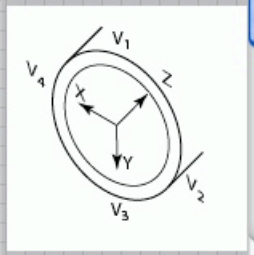
Current Frequency: 7962.0

Transfer Function: 0.00 +0.00 i

X+iY: 0 — 413.14 -15.1 mV

| | |
|---|---|
| Sample Temp (K) | 12.93 |
| Control Temp (K) | 14.01 |
| Set Point | 14.00 |
| Heating % | 20 |
| Heater | Low |
| Controller | PID |
| Rate | 99.00 |

Single Step

Continue

X-stats / Y-stats: mean, trend, skew, kurt., chi^2, AD-T, AD-F, <x^2>, alpha, white, SNR X, SNR Y (-1B, dB, 2B)