

Strømlingo DIY AFM

Detailed specification:

DIY AFM optomechanical system:

Laser wavelength: 650 nm (DVD) / 780 nm (CD).

Laser spot size (FWHM): 532 nm (DVD) / 800 nm (CD).

Photosensor bandwidth: >60 MHz

Compatible AFM probe: from 1x5 μm to unlimited size cantilever.

Scanner: (external control voltage: maximum ± 900 V).

XY range: 25/12.5 μm @ $\pm 10/5$ V; Z range: 10 μm @ ± 10 V.

Arduino Nano based AFM controller:

Focus error signal (FES) output: ± 10 V.

FES range (switchable gain): 0.5/1/2/4 μm .

Scanner control: Full range / halve range.

AFM DC mode resolution: Z= 0.5/ nm; XY= $\sim 78/39$ nm.

Laser scanning mode (without AFM probe) resolution:

Z= ~ 0.5 nm, XY= ~ 700 nm.

Scanning speed: 0.5-1.8 Hz.

<https://www.stromlinet-nano.org/>



The World's First Arduino Based Atomic Force Microscope

1. Strømtingo DIY AFM: 2,999 EUR



Optomechanical kit + Arduino based AFM controller
AFM DC mode resolution: Z= ~0.5 nm, XY= ~78/39 nm
Laser scanning mode resolution: Z= ~0.5 nm, XY= ~700nm
XY scanning range: ~20/10 μ m.
Scanning speed: 1.8 Hz

Handheld Anti-Vibration Table (HAVT)
For users without professional optical table
Resonance frequency: 4.5 Hz

3. Side Imaging Module: 99 EUR



High resolution optical imaging device
For AFM probe and sample approaching observation
Resolution: 10 μ m

DC mode cost effective AFM probe
3 cantilevers with 3 AFM tips (End radius: 8nm) on one chip
Length(μ m)/Force constant(N/m): 250/0.09, 300/0.05, 350/0.03

5. Nanotec teaching pack: 1,299 EUR



The package includes:

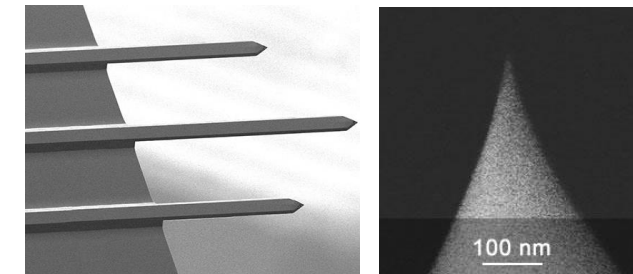
- I. Very easy understand nanotechnology introduction and application
- II. Hands-on practical AFM sample preparation and experiment

World class international express shipping

2. StrømNest HAVT: 199 EUR



4. Triple AFM Probex3: 99 EUR



6. Express shipping: ~199 EUR



Traditional AFM vs. Strømlingo DIY AFM

 Logistics



 Operability

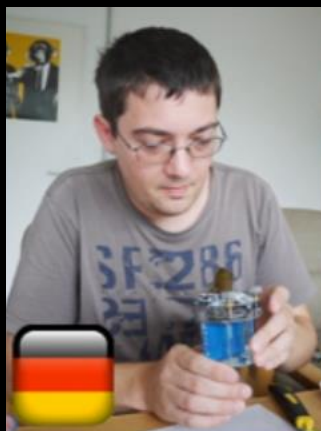


 Training



 Price





strominet nano
Liberating Nanotech Research

