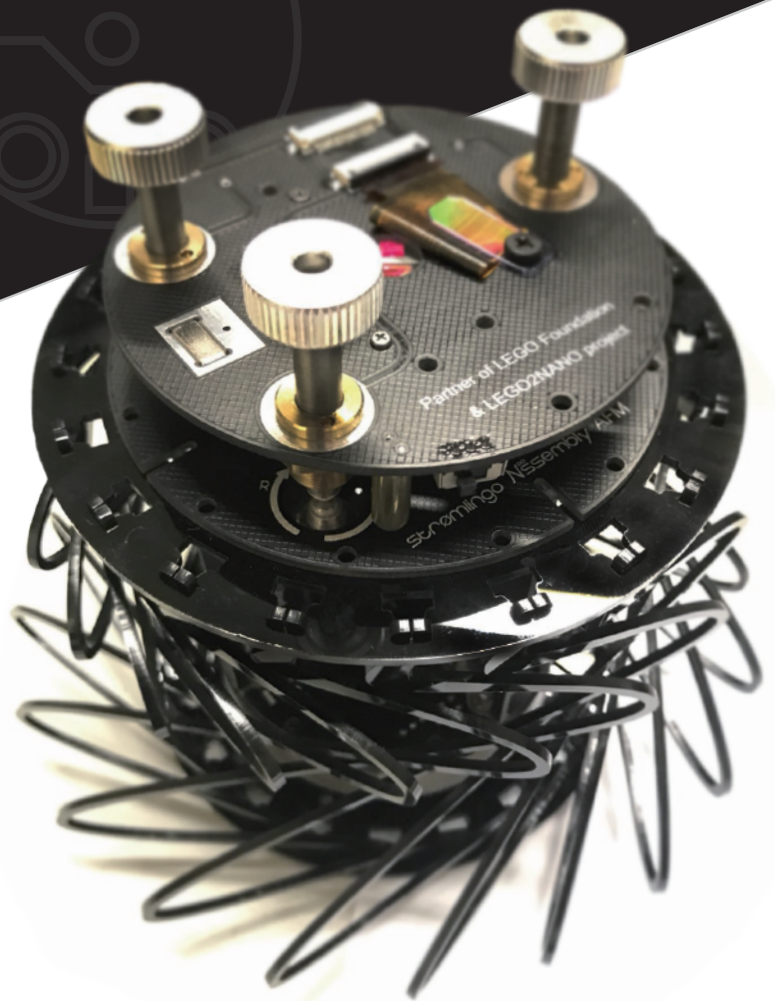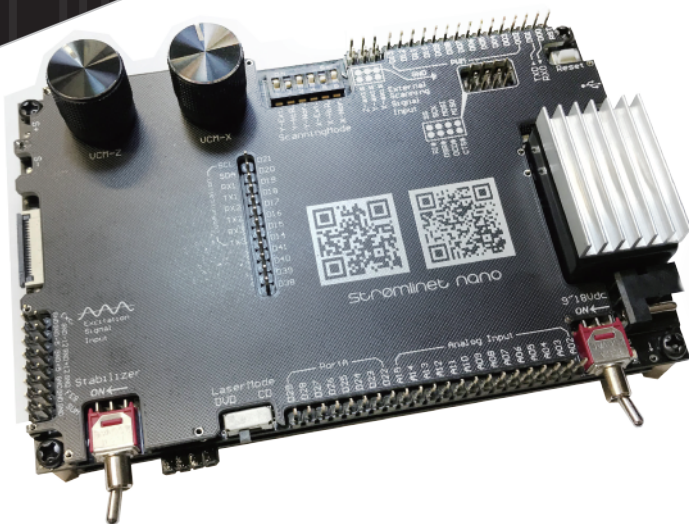# strømlingo
N∞ssembly AFM
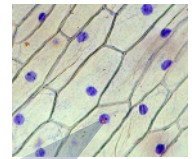
The Most Cost-Effective Nano-Imaging Tool in the World

- Lego-style Atomic Force Microscope(AFM) can be reassembled hundreds of times
- A perfect starting point for your nano-applications
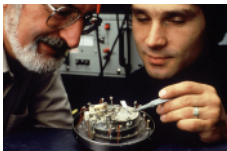- Ideal for hobbyist, education, and research purposes

Our Mission

In the past 200 years, classroom microscope has been limited to the micro-scale.
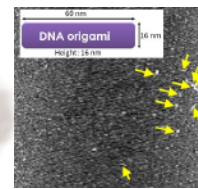
Over 200 years to classroom

200 µm

Nobel prize winning technolgy

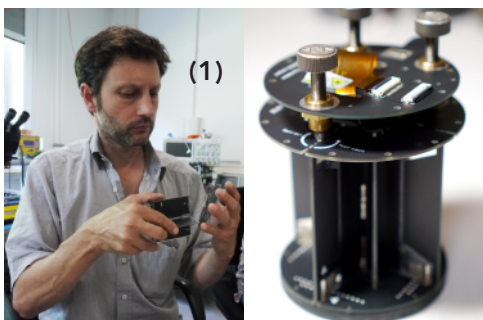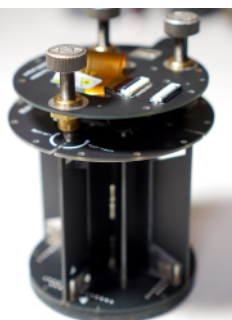< 30 years to classroom

DNA origami

5 µm

Our mission is to liberate nanotech research and education with our flat-packed, affordable, easily-assembled AFM.

Brand Story

(1)

Stromlinet Nano is a spin-off from LEGO Foundation's LEGO2NANO project, which promotes nano-technology education by re-defining play and re-imagining learning. The framework concept was inspired by Dr. Sebastian Butefisch (1).
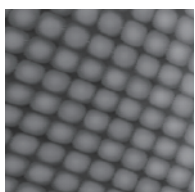
A Fraction of the Cost of Commercial AFM

DIY Strømlingo Nssembly AFM &
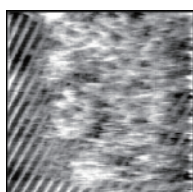Strømnest HAVT (Handheld Anti-Vibration Table)

Can be easily assembled within 10 mins
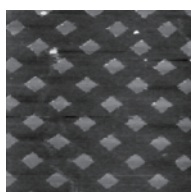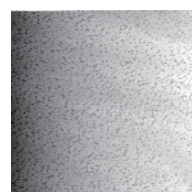No professional knowledge or training required

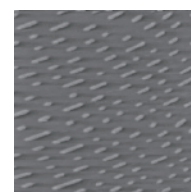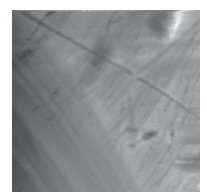# AFM Images

| CMOS Microlens | Mucosa on DVD tracks | TGQ-1 sample | BD 130nm data pits | CD 800nm data pits | Metal surface |

Press Coverage

"Self Made Atomic Force Microscope for Invisible Structures" -- *POPULAR SCIENCE*

"In the classroom: Creativity unleashed" -- *Nature Nanotechnology*

"SCIxKSR: 2015 Top 16 Science Projects of the World" -- *Kickstarter*

POPULAR SCIENCE — THE FUTURE NOW

nature nanotechnology — MAY 2015 VOL 10 NO 5 — www.nature.com/naturenanotechnology

KICKSTARTER

Customers and Distributors

Nanoworld AG
Switzerland

RIBM

SINTI

U TEK Material

轩辕科技 SHINNING TECH

VORTEX COMPANY

INTERCOVAMEX

- ● Education
- ● Research
- ● Customized
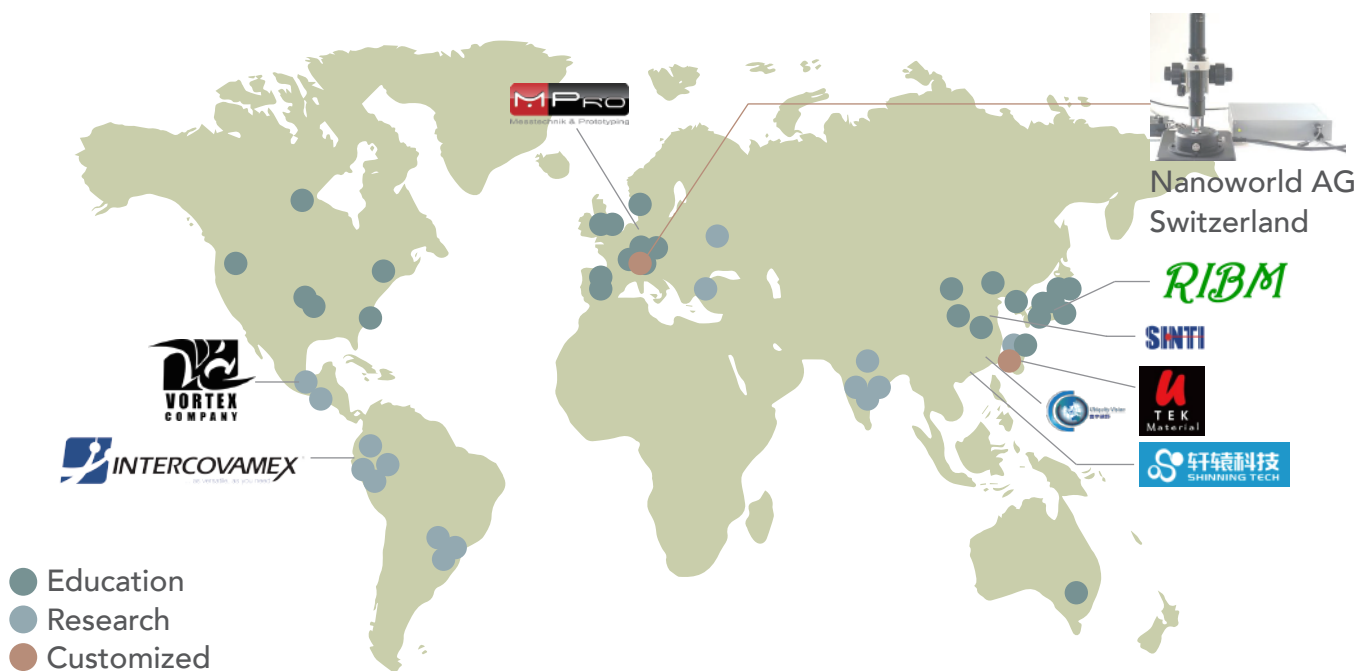
Partners Around the World

ESPE · UNIVERSITY OF LONDON · 金沢大学 KANAZAWA UNIVERSITY · 清華大学 Tsinghua University · DTU · LCN LONDON CENTRE FOR NANOTECHNOLOGY · NKU NORTHERN KENTUCKY UNIVERSITY · UFRJ · LEGO2NANO

info@stromlinet-nano.com
www.stromlinet-nano.com

Product Spectrum

Hardware

Arduino based Controller

Advanced Controller

Software

Basic
App/ Software

Advanced
App/ Software

Modules

Side Imaging
Module

XY Coarse
Module

Tapping
Module

Approach
Module

Environment
Control

Optical
Imaging
Module

MFM/EFM
Module

Comparison

	strømlingo™		Current budget AFM	Traditional AFM Systems
	Arduino AFM kit	Advanced kit*		
Flat-packing	✔	✘	✘	✘
Reassemble	✔	✘	✘	✘
STEM Compatible	✔	✔	✔	✘
Dynamic RMS noise	1.5 nm	0.25 - 1.5 nm**	0.4 - 1 nm	0.04 nm
Tipless Measurement	✔	✔	✘	✘
Wireless Controll	✔	✘	✘	✘
Built-in Vibration Isolation	✔	✘	✔	✘
Open platform	✔	✘	✘	✘
Scanning Modes	DC/LSM	DC/AC/MFM	DC/AC/MFM	DC/AC/XFM
Price	**5-7k USD**	**10-15k USD**	25-45k USD	50-300k USD

 * With high-stiffness AFM optomechanical framework

** With Nssembly AFM optomechanical framework