

Nanomanipulation System

Technical Specifications

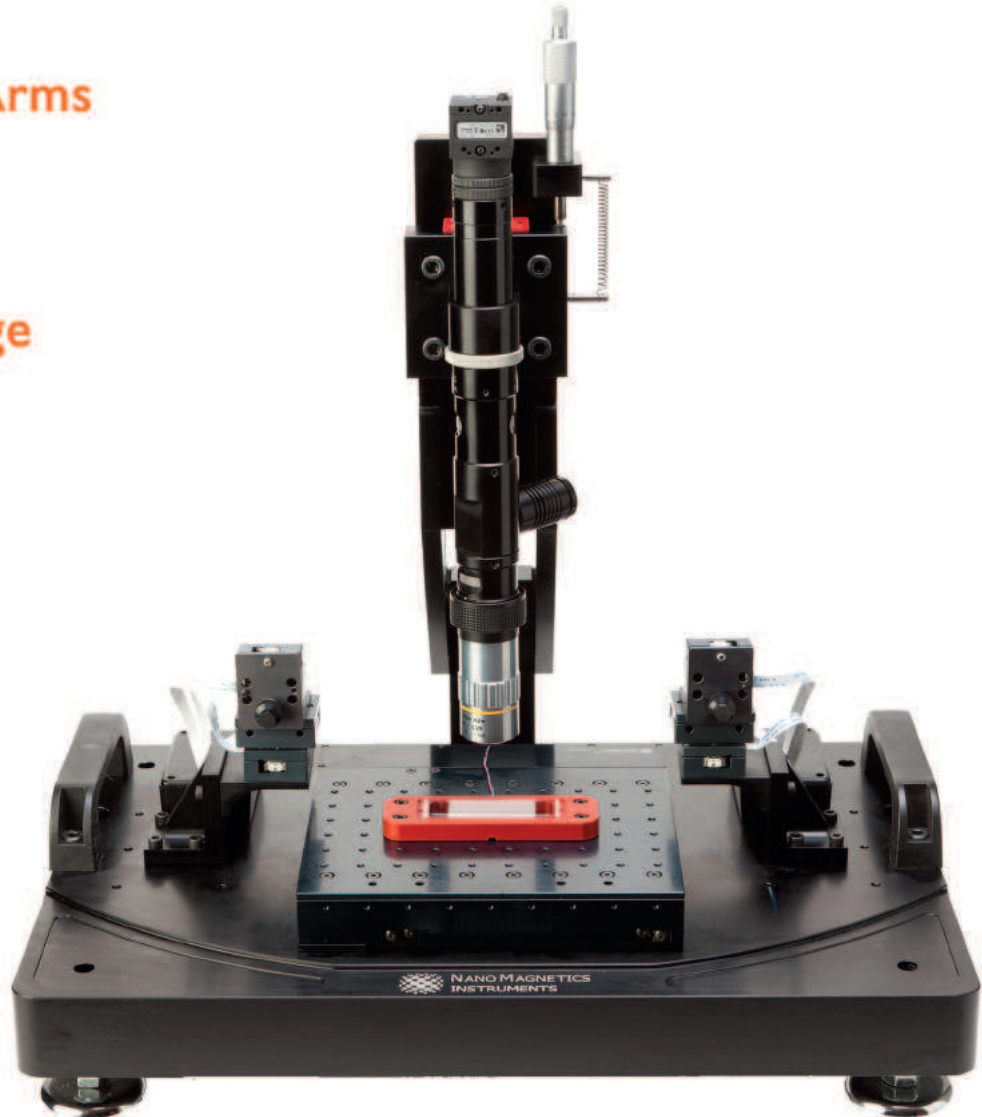
- Motorized XY sample stage, 50nm resolution~75mm XY movement
- Electronic control unit and software
- 10MP CMOS camera
- x10 long working distance, 0.28NA objective
- 0.85 μm optical resolution
- Coaxial overhead cold lighting

XYZ Movements on Arms

Movement Range: 25 mm (XYZ)
Resolution : <10 nm
Speed: up to 1mm/s

XY Movement on Stage

Movement Range : 75 mm (XY)
Resolution : <50 nm
Speed : up to 1mm/s



Optical System

- High quality x10 objective
- Resolving power 0.85 μm

Nanomanipulators

- 2 off XYZ Nanopositioners
- 25mm travel capacity
- 6nm step accuracy (theoretical)
- Motion reading via encoder
- Independent XYZ axis movement and movements simultaneously
- Continuous motion with < 6nm steps
- Intermittent movement identification with 1 μm steps (μm -mm range)
- Different speed options
- Storage and recall of the location information

Microcapillary Control

Vacuum and pump properties

Isolation

Acoustic and Vibration Isolation Enclosure

