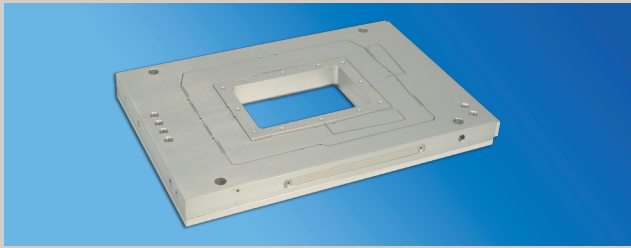


Nanopositioning Solutions for Microscopy

Nano-LPS & Nano-BioS Series: Slimline nanopositioners



Features

- High stability
- Lowest profile
- 2 or 3 axis nanopositioning
- Up to 300 μ m per axis
- Low noise
- Closed loop control
- Suitable for 75mm slides

Typical Applications

- Super resolution microscopy
- Fluorescence imaging
- Single molecule imaging
- Optical tweezers
- Fluorescent spectroscopy

Nano-MTA Series: Beam steering nanopositioners



Features

- High stability
- Lowest profile
- 1 or 2 axis nanopositioning
- Up to 10mrad per axis
- Low noise
- Closed loop control
- Cage mount versions available

Typical Applications

- Super resolution microscopy
- Fluorescence imaging
- Single molecule imaging
- Optical tweezers
- Interferometry

Nano-Z Series: Z-axis imaging



Features

- Piezo insert models & large format
- Single axis, up to 500 μ m motion
- Closed loop control
- Nanometer precision
- High speeds
- Compatible with many microscope stages & accessories

Typical Applications

- Confocal imaging
- Z-stack imaging
- Focus correction
- Fluorescent imaging
- Super resolution microscopy

Nano-F Series: Lens nanopositioning



Features

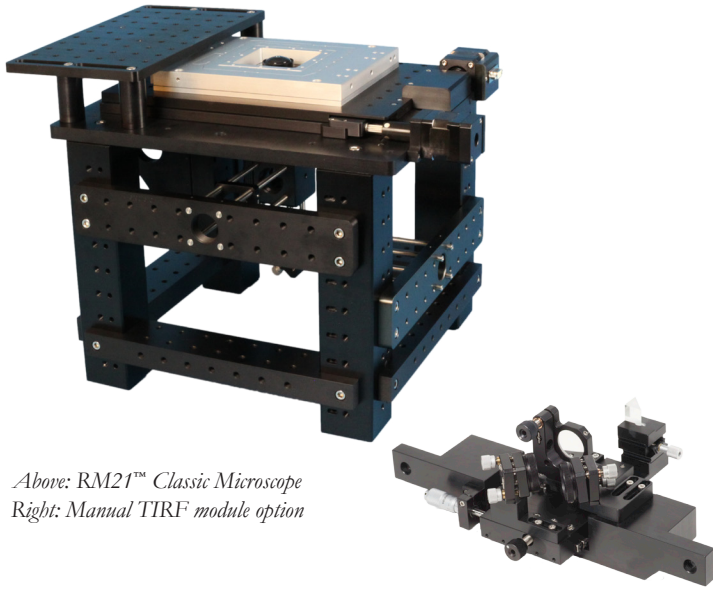
- Objective lens nanopositioner
- Up to 200 μ m range of motion
- Closed loop control
- Excellent on-axis performance
- Quick mount adapters
- Compatible with all microscopes

Typical Applications

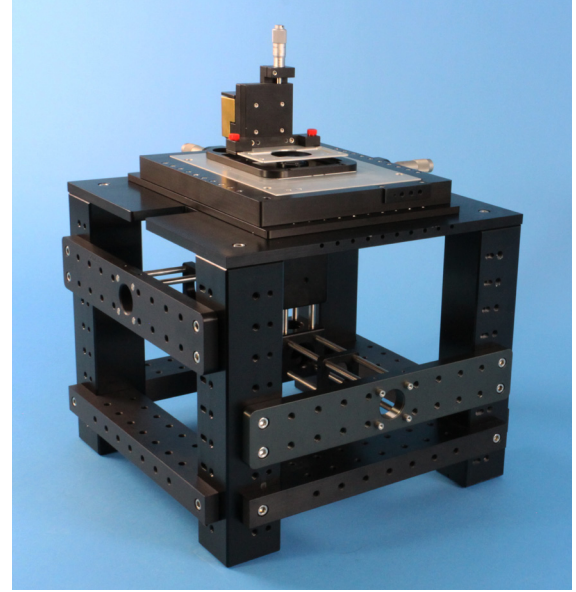
- Super resolution microscopy
- Microscope focussing element
- Autofocus
- Imaging
- Biophotonics

Also available: Nano-F450

RM21™ Microscopes



Above: RM21™ Classic Microscope
Right: Manual TIRF module option



Above: RM21™ Versa Microscope

Advantages

- Direct optical access
- Integrated nanopositioning systems
- High stability microscope with precision alignment
- Designed for nanoscopy and light microscopy
- Four models available

Models \ Included Features	Manual XY	Motorized XY	Automated Objective	Fixed Objective	TIRF Module	Nanopositioning Axes
RM21™ Versa	•			•		Z
RM21™ Classic		•	•			XYZ
RM21™ Advanced		•		•	•	XYZ
MicroMirror TIRF	•			•		XYZ

Models \ Methods	Epi-Fluorescence	Super resolution ¹	CoSMoS ²	Dichroic TIRF	Köhler Illumination	Z Drift correction	3D Drift correction
RM21™ Versa	•	•		○	○	○	
RM21™ Classic	•	•		○	○	○	○
RM21™ Advanced	•	•	•	•	○	○	○
MicroMirror TIRF		•	•	○		○	○

The RM21™ is a versatile microscope suitable for a variety of advanced microscopy and nanoscopy methods. The RM21™ is available in 4 standard configurations (see table) to satisfy a wide range of applications and budgets. All RM21™ microscopes have been engineered for precision alignment and stability, essential elements for advanced microscopy techniques. The targeted microscopy methods routinely employ closed loop nanopositioning systems and all RM21™ microscopes include Mad City Labs industry leading nanopositioning systems. Unlike conventional optical microscopes, RM21™ microscopes allow direct access to the optical pathway. This access enables users to employ a variety of microscopy methods using the same central instrument. RM21™ microscopes are compatible with 30mm and 60mm cage systems and are designed for use on a standard optical table. This feature makes it convenient to use a variety of off-the-shelf optical components. The RM21™ is not only suitable for advanced microscopy methods but also AFM integration and optical tweezers. Please contact our sales engineers to fully explore the possibilities of the RM21™ microscopes.