PIEZOCONCEPT

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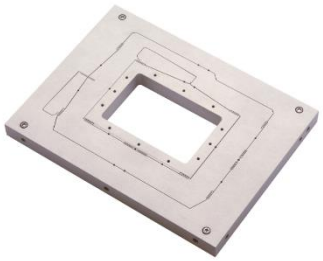
Technical parameter

BIO series

Ultra-low profile nanopositioner

BIO2



Two axis ultra-low profile (15.5mm) nanopositioner designed to be integrated in inverted microscopes. Microscope slides can be accomodated inside its rectangular aperture.

Can be combined with a coarse positioning stage.

Controller included (USB optional).

	BIO2.100	BIO2.200	BIO2.300
Range of motion (µm)	100	200	300
Resolution (nm)	0.1	0.2	0.3
Noise floor (nm-typ.)	0.01	0.02	0.03
Repeatability (nm)	0.2	0.4	0.6
Linearization (typ.)	0.02%		
Resonant frequency XY (Hz)	500/400	400/350	300/250
Stiffness XY (N/µm)	0.6/0.5	0.5/0.4	0.4/0.3
Sensor	Silicon HR Sensor		
Size W x L x H (mm)	206.5 x 152.5 x 15.6		
Material	Aluminium or Invar	Aluminium	
Cable length (m)	2		
Controller	Standard		
Maximum load* (kg)			
Horizontal use	1		
Vertical use	0.5		

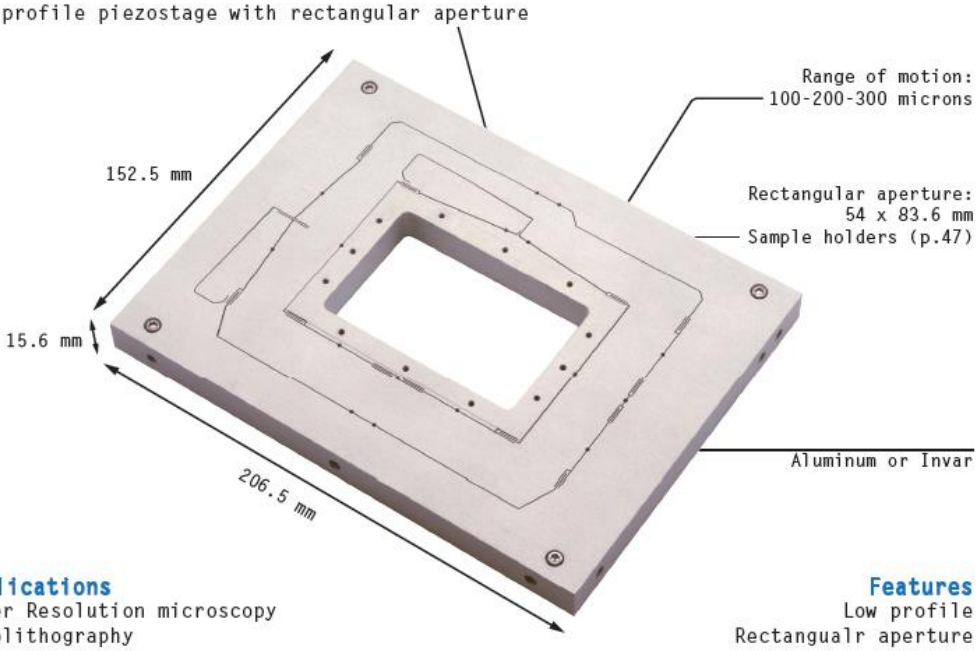
*Higher load on request

The BIO2 is a 2 axis ultra-low profile nanopositioner designed to be integrated in any kind of inverted microscope.
Microscope slides can be accommodated inside its rectangular aperture. Because of its very low profile (15.6mm), this nanopositioner is easy to integrate into inverted microscope and can be combined with a coarse positioning stage.

Standard BIO2 are made of aluminium. The BIO2.100 (100µm version) is available in Invar, to allow higher thermal stability, required for Bruker AFM.

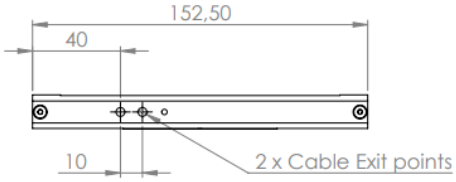
BIO2

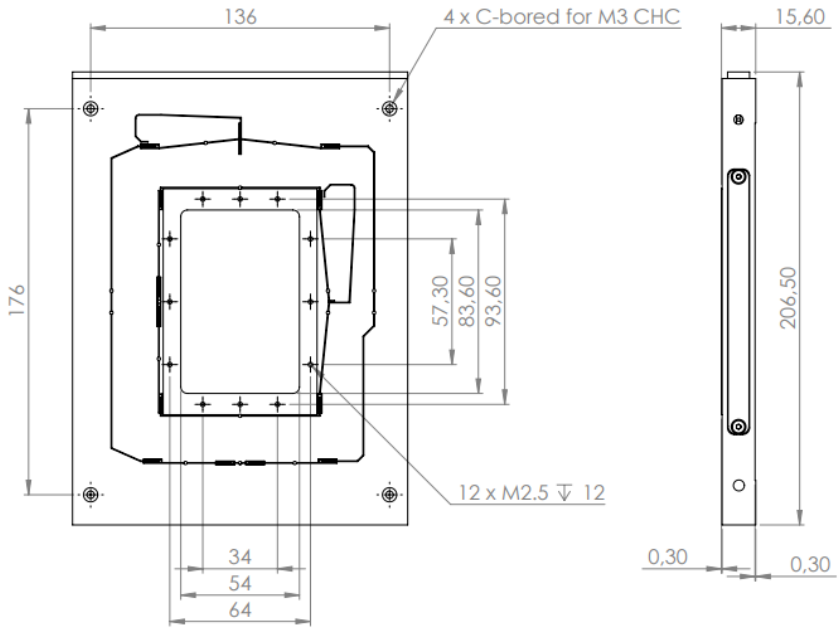
Low profile piezostage with rectangular aperture



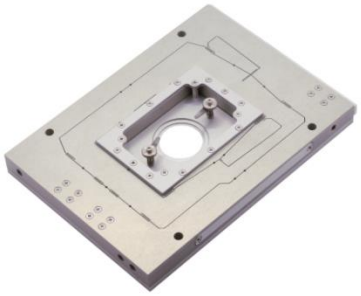
Applications
Super Resolution microscopy
Nanolithography
Particle tracking
Confocal microscopy
Atomic Force Microscopy
Bruker AFM upgrade

Features
Low profile
Rectangualr aperture
Closed loop control
Silicon sensor technology
Less than 30pm noise floor





BIO3



Three axis ultra-low profile nanopositioner designed to be integrated in any kind of inverted microscopes. Microscope slides can be accomodated inside its rectangular aperture.

Can be combined with a coarse positionning Microstage.

Controller included (USB optional).

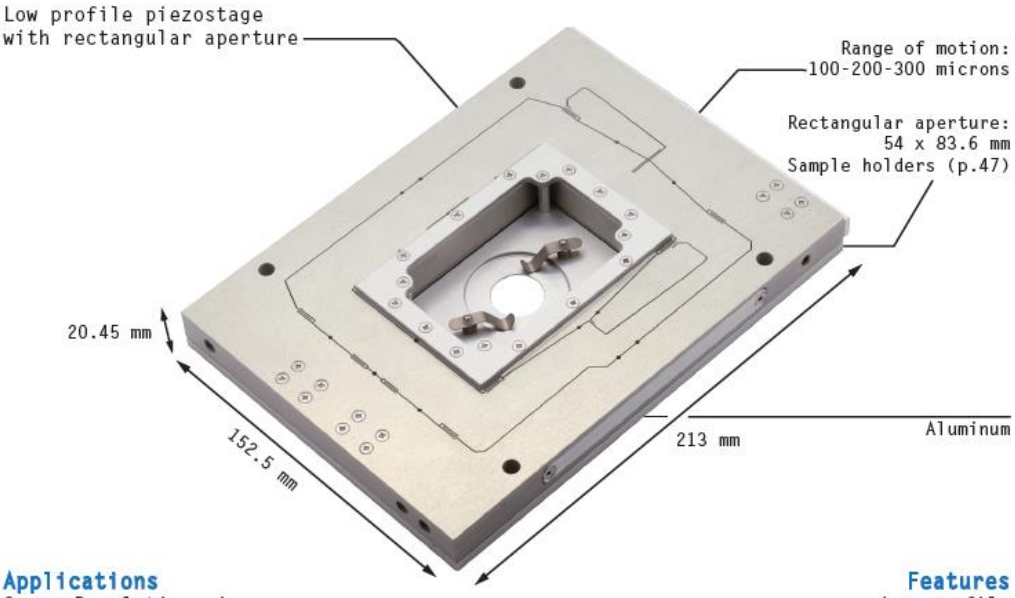
	BIO3.100	BIO3.200	BIO3.300
Range of motion (µm)	100	200	300
Resolution (nm)	0.1	0.2	0.3
Noise floor (nm-typ.)	0.01	0.02	0.03
Repeatability (nm)	0.2	0.4	0.6
Linearization (typ.)	0.02%		
Resonant frequency XYZ (Hz)	500/400/400	400/350/300	300/250/250
Stiffness XYZ (N/µm)	0.6/0.5/0.5	0.5/0.4/0.4	0.4/0.3/0.3
Sensor	Silicon HR sensor		
Size W x L x H (mm)	152.5 x 213 x 20.45		
Material	Aluminium or Invar	Invar	
Cable length (m)	2		
Controller	Standard		
Maximum load* (kg)			
Horizontal use	1		
Vertical use	0.5		

*Higher load on request

The BIO3 is a 3 axis ultra-low profile nanopositioner designed to be integrated in any kind of inverted microscopes.
Microscope slides can fit in its rectangular aperture. This piezostage can be combined with a coarse positionning Microstage.

The standard BIO3 is made of aluminium. The BIO3.100 (100µm version) is available in Invar, which allows higher thermal stability, ideal for application such as Bruker AFM upgrade.

BIO3



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Low profile
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