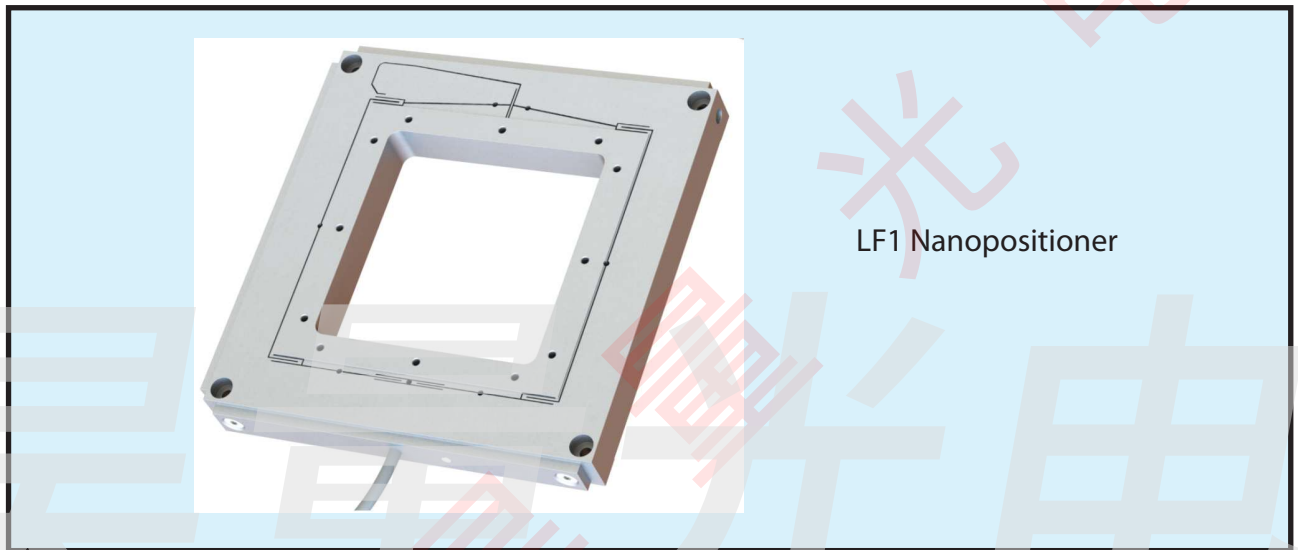


LF1 NANOPositionER

The LF1 is a compact 1-axis piezostage with a 66mm square aperture and with a travel range of either 100µm, 200µm or 300µm. It is recommended when low-footprint and an aperture are needed. The LF1 can be stacked (see the 2-axis model LF2), and completed with an integrated 50µm travel range along the Z axis if needed (see the 3-axis model LF3).

This piezostage can be combined with a coarse positioning Microstage (See our Hybrid System).



Features

- Square aperture (66 x 66 mm)
- 100, 200 or 300 µm motion
- Closed loop control
- Silicon sensor technology
- Less than 30pm noise floor

Applications

- Super resolution microscopy
- Nanolithography
- Particle tracking
- Confocal microscopy

Specifications

	Unit	LF1.100	LF1.200	LF1.300
Range of motion	(μm)	100	200	300
Resolution	(nm)	0.1	0.2	0.3
Typical noise floor	(nm)	0.01	0.02	0.03
Full range repeatability	(nm)	0.2	0.4	0.6
Linearization (typical)		0.02%	0.02%	0.02%
Resonant frequency	(Hz)	500	400	300
Stiffness	(N/ μm)	0.6	0.5	0.4
Maximum load*:				
- horizontal use	(kg)	1	1	1
- vertical use	(kg)	0.5	0.5	0.5
Sensor		Silicon HR sensor	Silicon HR sensor	Silicon HR sensor
Size W x L x H	(mm)	121 x 118 x 13.6	121 x 118 x 13.6	121 x 118 x 13.6
Material		Al	Al	Al
Cable length	(m)	2	2	2
Controller		Standard	Standard	Standard

*Higher load on request

Drawing

