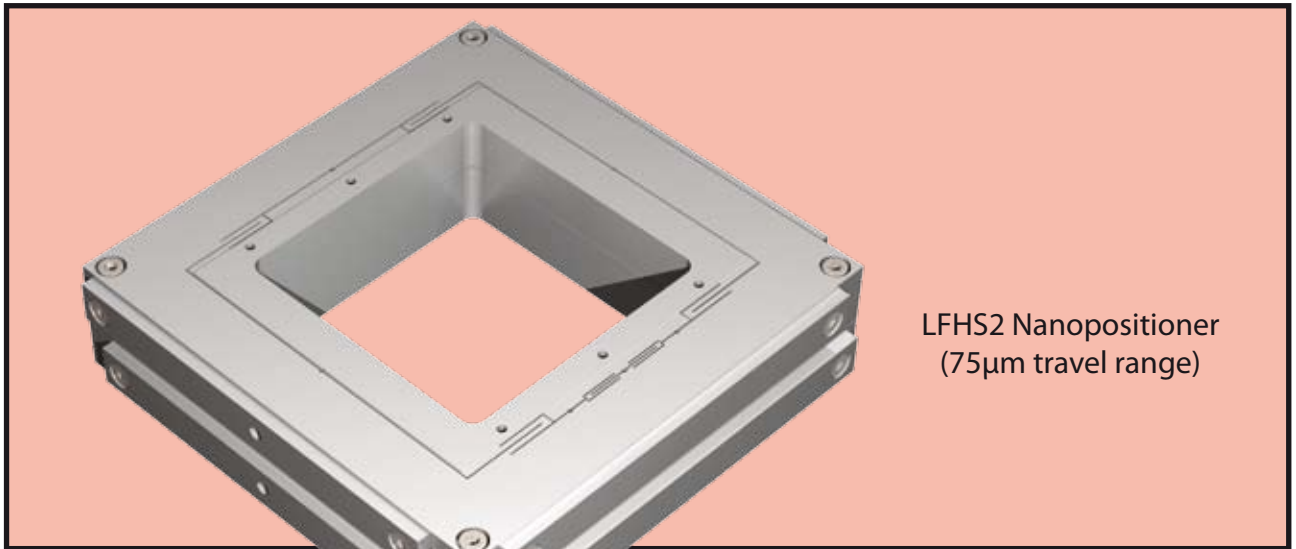


LFHS2 NANOPositionER

The LFHS2 is a 2-axis ultra-high speed nanopositioner, offering a motion range of 75µm along X and Y, a large 66mm x 66mm aperture and resonant frequencies higher than 2kHz on both axis. It can be also proposed with an integrated Z axis (50µm travel range) if required (see the LFHS3 - pages 28-29) . This piezostage can be proposed with a coarse positioning Microstage (See our Hybrid System - pages 34-35). This nanopositioner is part of our high-speed product line (High power controller available). High speed scans and step response time smaller than 2ms are then possible.



LFHS2 Nanopositioner
(75µm travel range)

Features

- Ultra high speed
- Direct drive
- Square aperture (66mm x 66mm)
- 75µm XY motion
- Closed loop control
- Silicon sensor technology
- Less than 10pm noise floor

Applications

- Super Resolution microscopy
- Particle tracking
- Fast XY scanning
- Confocal microscopy
- Atomic Force Microscopy
- Optical tweezer

Specifications

	LFHS2
Range of motion XY (μm)	75
Resolution XY (nm)	0,075
Typical noise floor XY (nm)	0,0075
Full range repeatability XY (nm)	0,15
Linearization (typical)	0,02%
Resonant frequency X/Y (Hz)	3000/2000
Stiffness ($\text{N}/\mu\text{m}$)	4/3
Maximum load (kg) - horizontal use	1
Maximum load (kg) - vertical use	0,5
Sensor	Silicon HR sensor
Size W x L x H (mm)	120,8 x 120,7 x 28,5
Material	Al
Cable length (m)	2
Recommended Controller	High Speed

Drawing

