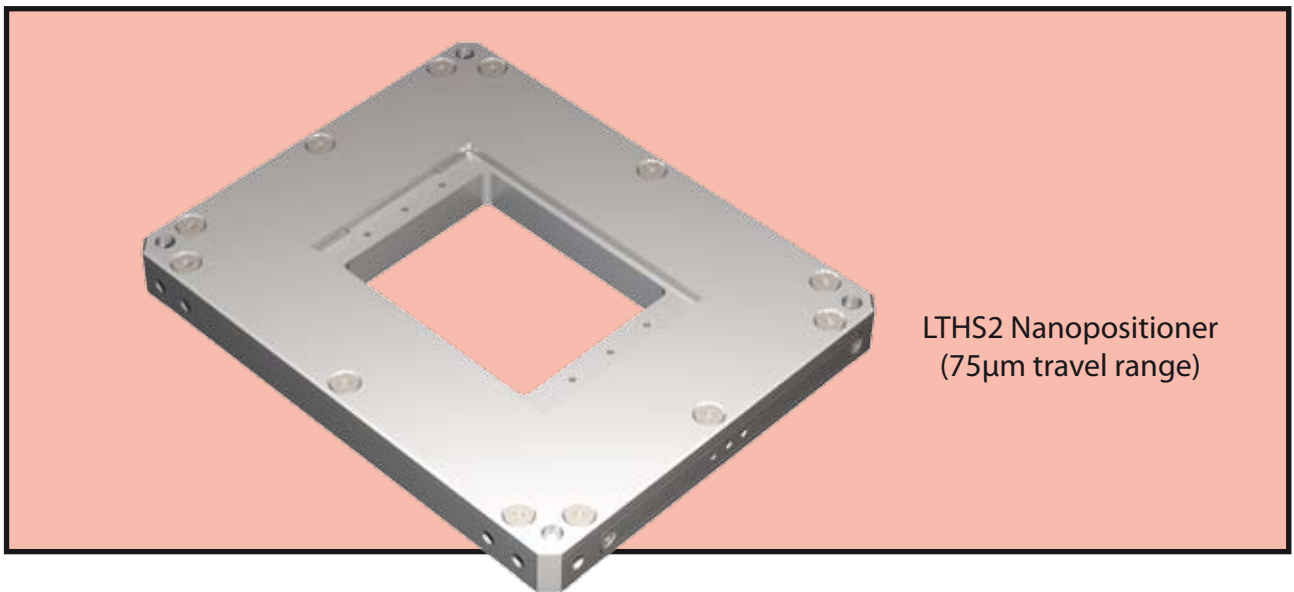


LTHS2 NANOPositionER

The LTHS2 is a 2-axis ultra-high speed nanopositioner, offering a motion range of 75 μ m along X and Y and a large 83mm x 66mm aperture well compatible with microscope slides. Its resonant frequencies higher than 1kHz on both axis allows high-speed XY scans. 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. If a small thickness is not required, the LFHS2 can be an interesting alternative solution (See pages 18-19). This piezostage can be proposed with a coarse positioning Microstage (See pages 34-35).



Features

- Ultra high speed
- Direct drive
- Rectangular aperture (83mm x 66mm)
- 75 μ m 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

	LTHS2
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)	1500/1000
Stiffness (N/ μm)	2/2
Maximum load (kg) - horizontal use	0,5
Maximum load (kg) - vertical use	0,3
Sensor	Silicon HR sensor
Size W x L x H (mm)	152,5 x 190 x 18,5
Material	Al
Cable length (m)	2
Recommended Controller	Standard or High Speed

Drawing

