2025 New

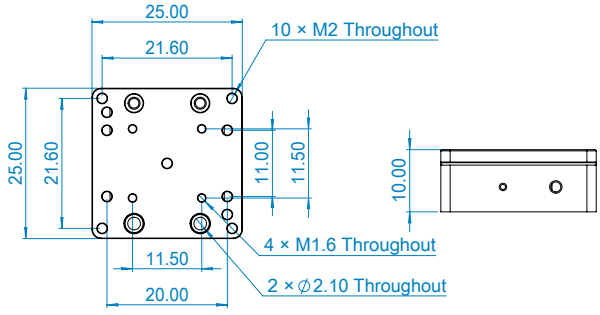
"Closed-Loop Scanner Series" – Scanner25-x.Ultra

Scanners with sub-nanoscale resolution capacitive displacement sensors for closed-loop control

➡ Features

- Tiny structure
- Non-magnetic material
- Ultra-high vacuum & low temperature compatible
- Closed-loop control

➡ Picture & dimensions



➡ Specifications

Optional Versions ⇨		.HV (default)	.ULT	.UHV	.ULT.UHV
		.HV version, compatible with 1E-7 mbar .ULT version, used at He3 or dilution cryogenics systems .UHV version, compatible with 2E-11 mbar			
1	Footprint × hight	25 × 25 mm × 10.5 mm			
2	Weight	80 g			
3	Work environment	Temperature range: 1.4 ~ 400 K, Max. Magnetic field: 35 Tesla			
4	Option1 - 30 mK		✓		✓
5	Option2 - 2e-11 mbar			✓	✓
6	Mainbody	Pure Ti	BeCu	Pure Ti	BeCu
7	Wires	twisted paired wire & triax cable			
8	Connectors	2 head pins + 1 triax connector (for each dimension)			
9	Scanning Axis	X			
10	Travel range	@300 K: 55 μm; @4 K: 30 μm			
11	Drive Voltage	Max. 75 V @300 K; Max. 150 V @4 K			
12	Max. Load	250 g			
13	Capacitance @300 K	7 uF			
14	Sensor	Capacitive displacement sensor			
15	Resolution	0.5 nm			
16	Linearity error	Typical ~ 0.1 %			
17	Repeatability	< 5 nm			

For detail drawing and 3D model please contact us.

Specifications subject to change without notice.