



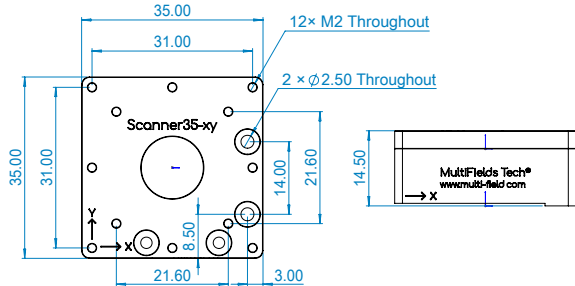
"Closed-Loop Scanner Series" – Scanner35-xy.Ultra

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

➔ Features

- 优于5nm空间运动可重复性
- 拥有光学通孔设计

➔ 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	35 × 35 mm × 14.5 mm			
2	Weight	110 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, Y			
10	Travel range	@300 K: 100*100 μm; @4 K: 60*60 μm			
11	Drive Voltage	Max. 75 V @300 K; Max. 150 V @4 K			
12	Max. Load	500 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.

Piezoelectric Motion - LT

N7

Specifications subject to change without notice.



Scanner25-z



Scanner35-xy-Optic



Scanner35-z-Optic

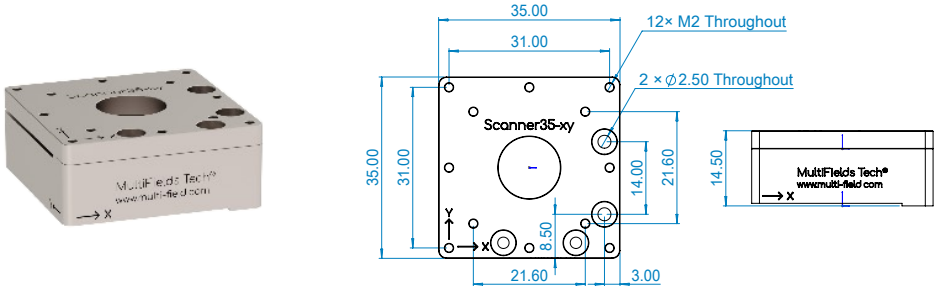
“25mm Series”	“35mm Series”		Series defined by size	
Default: 1.4 K ~ 400 K; 1e-7 mbar; 35 Tesla Option1 - .ULT, lowest use temperature 30 mK; Option2 - .UHV, highest vacuum environment 2E-11 mbar;			Work Environment	1
Z	X, Y	Z	Scanning Axes	2
25 × 25 × 12 mm	35 × 35 × 14.5 mm	35 × 35 × 14.5 mm	Dimensions	3
55 μm	100 × 100 μm	100 μm	Travel Range	4
200 g	500 g	500 g	Max. Load	5
< 10 nm			Repeatability	6
Max. 75 V @300K; Max. 180 V @4K			Drive Voltage	7
0.8 nm	2 nm	2 nm	Resolution	8
2 pins	4 pins	2 pins	Pins	9
Default: Pure Ti; ULT: BeCu			Main Body	10
20 g	65 g	65 g	Weight	11

"35mm Series" – Scanner35-xy-Optic

High-performance scanning stage of x & y direction with long travel range

- ➔ Features
- Compact design
 - Sub-nm resolution
 - 100 × 100 μm travel range at room temperature
 - Ultra-high vacuum & low temperature compatible

➔ 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	35 × 35 × 14.5 mm			
2	Weight	65 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	Phosphor Bronze Twisted Paired Wires, 20cm			
8	Pin materials	Polyster (glass fiber filled), BeCu		Peek, BeCu	
9	Pins number	2 pins for each axis			
10	Scanning Axes	X, Y			
11	Travel range @300 K	100 × 100 μm			
12	Drive voltage	Max. 75 V @300 K, Max. 180 V @4 K			
13	Max. Load	500 g			
14	Capacitance @300 K	8 uF			
15	Resolution	2 nm			
16	Repeatability	< 10 nm			

For detail drawing and 3D model please contact us.