

“Carrier Series”

Microscopy Imaging and Positioning



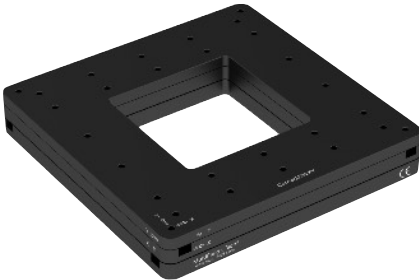
➔ Carrier.L7550.XY

Piezo Motor Positioning Stage, Optical Sensor Feedback

Travel Range: 75 × 50 mm

Minimum Incremental Motion: 10 nm

Max. Payload: 2 kg



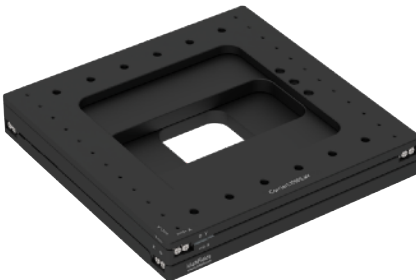
➔ Carrier.L1010.XY

Piezo Motor Positioning Stage, Optical Sensor Feedback

Travel Range: 100 × 100 mm

Minimum Incremental Motion: 10 nm

Max. Payload: 4 kg



➔ Carrier.L1010s.XY

Piezo Motor Positioning Stage, Optical Sensor Feedback

Travel Range: 100 × 100 mm

Minimum Incremental Motion: 10 nm

Max. Payload: 4 kg

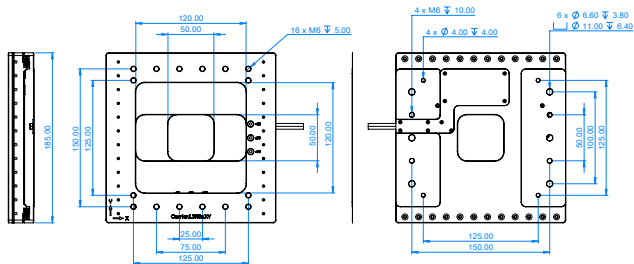
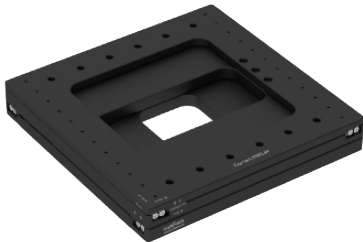
Planar Linear Motion — Carrier.L1010s.XY

High Resolution Piezo Motor Driving, Close-loop Control, for Microcopy

- ➔ Feature

 - Quiet Motion
 - Nanometer Resolution
- XY Planar Structure
 - Self-lock
- Clear Aperture
 - Optical Sensor Inside
 - Stackable with Piezo Scanner

➔ Photo & Drawing



➔ Specification

Carrier.L1010s.XY

1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;
2	Motion Direction	X, Y
3	Size	185 × 185 × 28 mm
4	Mounting Space	285 × 285 × 28 mm
5	Aperture	20 × 20 mm (Full Travel Range); 50 × 50 mm (Travel Range<70 × 70mm)
6	Material	Aluminum, Stainless Steel, Ceramic
7	Cable & Connector	Standard/HV, shield cable and D-Sub15 plug; UHV, Kapton, PEEK D-Sub15
8	Work Temperature	10 ~ 40 °C
9	Mass	2 kg
10	Travel Range	100 × 100 mm
11	Max. Velocity	10 mm/s* (Reduce to 10% in Vacuum)
12	Minimum Incremental Motion (Close-loop)	10 nm
13	Driving Force	2 N
14	Holding Force	4 N
15	Max. Payload (horizontal mounting)	4 kg
16	Pitch/Yaw	0.3 mrad
17	Sensor Type	Optical Sensor
18	Sensor Resolution	2 nm (Default)
19	Controller	MC-Newton.S series

* For detail drawing and 3D model please contact us.

Carrier series combination for microscopy

Sample Position, Objective Focus, Photon Laser Scan



Piezo Motion · RT

➔ Specification

1	Combination (top-down)	Carrier.OB400.C Carrier.SL200.XYZ.C Carrier.L1010s.XY
2	Motion Direction	XYZ
3	Coarse Travel Range	100 × 100 mm (XY, Carrier.L1010s.XY)
4	Fine Scanning Range	200 × 200 × 200 μm (XYZ, Carrier.SL200.XYZ.C)
5	Objective Focusing Range	400 μm (Z, Carrier.OB400.C)
6	Minimum Incremental Motion (Close-loop)	10 nm (XY, Carrier.L1010s.XY)
7	Fine Scanning Resolution (Close-loop)	2 nm (XYZ, Carrier.SL200.XYZ.C)

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