SCANIUS^{two}

Concept

The SCANIUS^{two} offered by piezosystem jena is designed for positioning samples over long travel while maintaining our standard of high precision. With this new two-axes stage piezosystem jena provides a better and more elegant solution for you to work with your samples or objects. The combination of high resolution and easy integration makes this system ideal for a variety of applications.

SCANIUS^{two}

Features

- Two axes system (XY)
- Loop control with optical sensor
- Usable for incident light and transmitted light microscopes
- Different sample holders possible
  - Sample glass
  - Petri dish
  - Microtiter plate

Control

The LC3 controller offered from piezosystem jena is designed for easy operation with the SCANIUS^{two}.

Product highlights:

- Travel X = 150mm Y = 70mm
- Speed up to 160 mm/s
- Smallest step 100nm
- Load capacity up to 3kg
- Piezoelectric drive without electro-magnetic fields

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piezosystemjena
incredibly precise

SCANIUS^two

Technical Data

part no.		T-602-09	
	unit	X-axis	Y-axis
Travel Range	mm	150 (5,9″)	72 (2,8″)
Velocity (max)	mm/s	160	150
Smallest step	nm	100	200
Repeatability (typ.)	nm	<300	< 200
Flatness (over 10mm)	µm	< 1	< 0,5
Pitch / Yaw	µrad	< 35 / < 40	< 265 / < 200
Settlingtime within 1 µm (600 g load)	msec	< 130	< 100
Position accuracy (max)	nm	< 600	< 7000
Load Capacity (max)	kg	3 (6.6 lb)	
Weight	kg	4 (8,81 lb)	
Motor Type		piezoelectric drive	
Operation position		horizontal	
interface module			
Micro D-Sub		25pol	
casing			
Dimensions (l x w x h)	mm	306 x 240 x 32 (12″ x 9,4″ x 1,25″)	
Aperture probe	mm	170 x 130 (6,7″ x 5,1″)	
Effective scanning range (open aperture)	mm	80 x 80 (3,1″ x 3,1″)	
Mounting grid (customizable)	mm	175 x 50 (6,8″ x 1,9″)	
environment			
Operating temperature	-	5 … 35°C / 41 … 95°F	
Humidity	$\%_{rel}$	max. 80, non-condensing	
Altitude	m	up to 2000	
Sample holder compatibility			
Scanning stage is compatible to Thorlabs MLS203 series and all corresponding adapters			

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