

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.

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}.



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Product highlights:

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



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Technical Data

part no.		T-602-09		
	unit	X-axis	Y-axis	
Travel Range	mm	150 (5,9")	72 (2,8")	
Velocity (max)	mm/	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	nodule			
Micro D-Sub		25pol		
casing				
Dimensions (I 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				