

## SCANIUS<sup>one</sup>

### Concept

The SCANIUS<sup>one</sup> from piezosystem jena is a one-axis positioning system which combines our incredible precision with an extraordinary travel range of up to 120mm. Quality and flexibility were an essential part of the development of a system with the highest requirements necessary to meet our customers needs. The mounting grid on the top plate of the stage allows you the flexibility to easily mount different devices. Due to the powerful piezo-electric drive it is possible to operate the stage in both a horizontal and vertical setup.

The new SCANIUS<sup>one</sup> is very flat and perfect for applications in your laboratory, your experimental set-up or complex machines. Furthermore, the single one plug connection makes matters very simple and uncomplicated.

### Features

- Travel range up to 400 mm possible
- Ultra high precision scanning down to 40 nm
- Top plate mounting grid
- Loop control with optical sensor

### Control

The LC3 controller offered from piezosystem jena is specifically designed for easy operation with the SCANIUS-LINE.



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### Product highlights:

- Linear stage - motion up to 120 mm
- Travel speed up to 170 mm/s
- Load capacity up to 20 kg vertical and 0,7 kg horizontal
- Piezoelectric drive without electromagnetic fields

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### Technical Data

part number	Unit	T-601-09
no. of axes	-	1
motion	mm	120
max. velocity	mm/s	170
smallest step	nm	100
typ. repeatability	nm	<200
flatness (10mm)	µm	< 0,3
pitch/yaw	µrad	<100 / <400
settlingtime within 1µm (600g load)	msec	11
position accuracy	nm	<600
static holding force	N	14
load	kg	20 (horizontal) / 0,7 (vertical)
operation position	-	horizontal and vertical
dimensions (LxWxH)	mm	230x100x26
Weight	kg	1,5
mounting grid	mm	175x25
Top plate mounting grid	mm	25x25
<b>interface</b>		
25pol. Micro D-Sub		1x
<b>environment</b>		
operation temperature	-	5...35°C / 41...95°F
humidity	% <sub>rel</sub>	max. 80, non-condensing
altitude	m	up to 2000