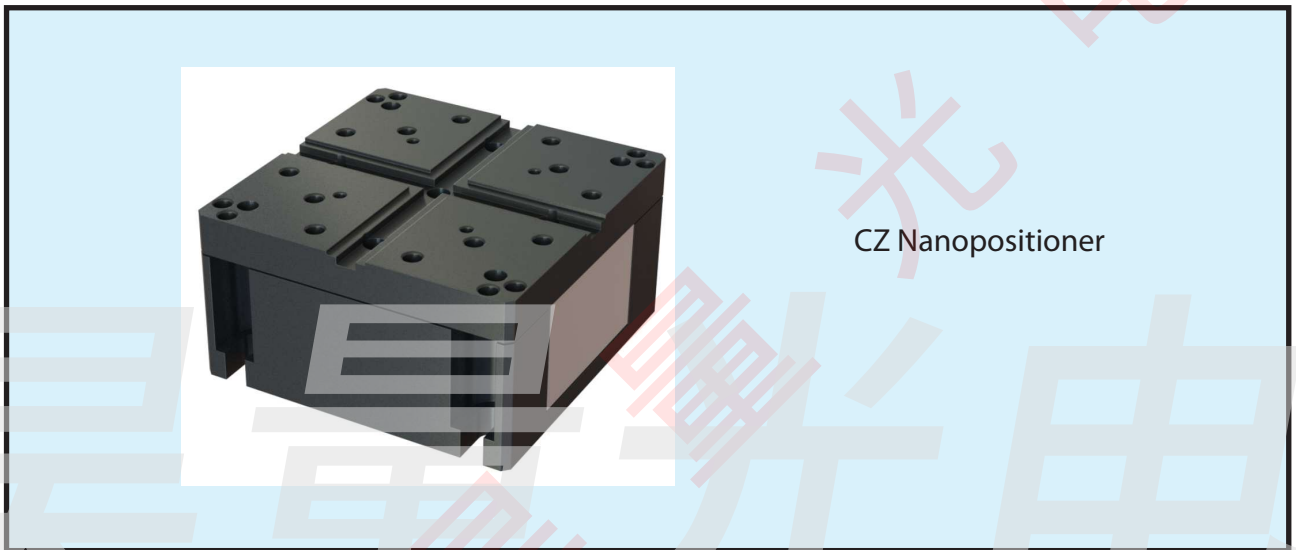


# CZ NANOPositionER

The CZ is a 1-axis compact Z nanopositioner, offering 100  $\mu\text{m}$  or 200  $\mu\text{m}$  motion along Z. Its compact design makes it the ideal tool for applications such as 3D imaging, Z-stack, autofocus and laser writing application.

It is also available with a X-Y axis if needed (see the 3-axis model C3).



## Features

- Compact design
- 100  $\mu\text{m}$  or 200  $\mu\text{m}$  Z motion
- Closed loop control
- Silicon sensor technology
- Less than 10pm noise floor

## Applications

- Alignment
- Laser writing
- 2 photons polymerisation
- Confocal microscopy
- 3D printer

# Specifications

	CZ.100	CZ.200	Unit
Range of motion Z	100	200	$\mu\text{m}$
Resolution Z	0.1	0.2	$\text{nm}$
Typical noise floor Z	0.01	0.02	$\text{nm}$
Full range repeatability Z	0.2	0.4	$\text{nm}$
Linearization Z (typical)	0.02%	0.02%	
Resonant frequency Z	500	400	Hz
Stiffness X / Y / Z	0.6	0.4	$\text{N}/\mu\text{m}$
Maximum Load* :			
- horizontal use		0.5	kg
- vertical use		0.1	kg
Sensor	Silicon HR sensor		
Size W x L x H	48.5 x 48.5 x 25.7		mm
Material	Al		
Cable length**	2		m
Controller	Standard		

\*Higher load on request

\*\*Higher length on request

# Drawing

