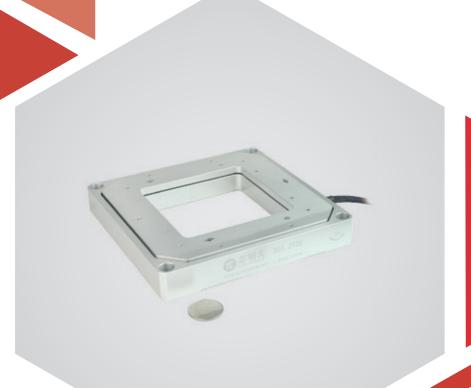


θx/θy/Z axes | S51.ZT2S/K-C1

Piezo Tip/Tilt and Z Stage



Introduction

S51.ZT2S/K-C1 Piezo Z/Tip/Tilt Platform is one customized piezo stage that tilts in θx , θy and moves in Z. There is a large aperture in its center that is suitable for light-transmitted applications.

Characteristics >>

- θx, θy and Z motion
- High closed-loop positioning accuracy
- Fast respons
- Light aperture: 96×96mm

Applications >>

- Optical beam scanning
- · Light path adjustment
- Graphical stability
- Interference/metering
- Large loading tilt motion
- · Space perturbation simulation system
- Calibration of acceleration sensor
- Calibration of angular velocity sensor





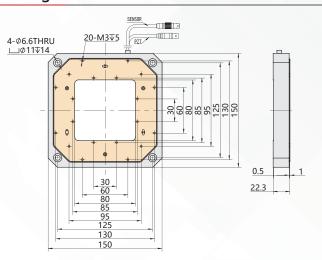
Technical Data >>

Туре	C-Closed loop K-Open loop	S51.ZT2S-C1	S51.ZT2K-C1	Units
Active axes		θx、θy、Ζ	θα, θу, Ζ	
Linear travel axes(0~120V)		192	192	μm±20%
Linear travel axes(0~150V)		240	240	μm±20%
Tilt angle(0~120V)		±1.6/axis	±1.6/axis	mrad±20%
Tilt angle(0~150V)		±2/axis	±2/axis	mrad±20%
Integrated sensor		SGS	-	
Resolution in Z		7	2	nm
Resolution(θx , θy)		0.15	0.06	μrad
Closed loop linearity(Z)		0.3	-	%F.S.
Closed loop linearity(θx, θy)		0.3	-	%F.S.
Closed-loop repeatability(Z)		0.3	-	%F.S.
Closed-loop repeatability(θx , θy)		0.1	-	%F.S.
Unloaded resonant frequency		160	160	Hz±20%
Load capacity		1.5	1.5	kg
Operating temperature ^[1]		-20~80	-20~80	°C
El. capacitance		21.6/axis	21.6/axis	μF±20%
Mass		1070	1070	g±5%
Material		Steel, Al	Steel, Al	
Cable length ^[2]		1.5	1.5	m±0.1mm

Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

Note: The parallelism of the moving platform is about $20\mu m$, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Drawing >>



Recommended Controllers >>



E01.D3 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development



E70 Small size, ave current 70mA/channel RS-232/RS-422/USB interface Software secondary development



^[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

^[2] Custom cable length and connector is available.