

Z axis | XD730.400S/K-B1

Piezo Objective Scanner





The XD730.400S/K-B1 Piezo Objective Scanner is a Z axis objective lens drive platform. Its Z-direction stroke can reach 500µm and the load capacity can reach 0.5kg, which is very suitable for static positioning applications.

Characteristics >>

- Z axis motion
- Travel to 500µm
- Load capacity to 0.5kg
- Optional closed loop sensor

Applications >>

- Focus microscopy
- · Laser processing
- Biotechnology
- Surface structure analysis
- · Confocal microscope
- · Z-direction positioning and scanning



Harbin Core Tomorrow Science & Technology Co., Ltd.



Technical Data >>

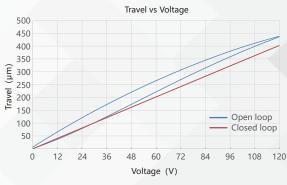
Туре	S-Closed loop K-Open loop	XD730.400S-B1	XD730.400K-B1	Units
Active axis		Z	Z	
Travel range(0~120V)		400	400	μm±10%
Travel range(0~150V)		500	500	μm±10%
Integrated sensor		SGS	-	
Resolution		14	4	nm
Linearity		0.2	-	%F.S.
Repeatability		0.05	-	%F.S.
Unloaded resonant frequency		150	150	Hz±20%
Load capacity		0.5	0.5	kg
El. capacitance		28.8	28.8	μF±10%
Operating temperature ^[1]		-20~80	-20~80	°C
Material		Aluminium, steel		
Mass		520	520	g±5%
Cable length ^[2]		1.5	1.5	m±10mm

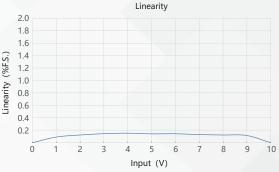
Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

- [1] Custom ultralow temperature and ultrahigh vacuum versions are available.
- [2] Custom cable length and connector is available.

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.

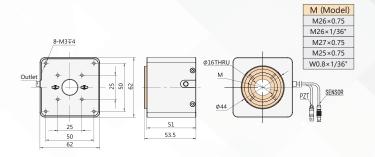
Curves >>





Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

Drawing >>



Recommended Controllers >>



E01.D1 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development



E53 Small size, 60mA RS-232/RS-422/USB interface Software secondary development

