

Z axis |XD730.100S/K

Piezo Objective Scanner



Introduction

XD730.100 piezo objective scanner features high load capacity, long travel and high accuracy, and is ideal for various optical microscopy applications.

Characteristics >>

- Motion in Z
- Load capacity to 0.5kg
- Travel range to 100μm
- High accuracy
- Optional sensor

Applications >>

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



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Technical Data >>

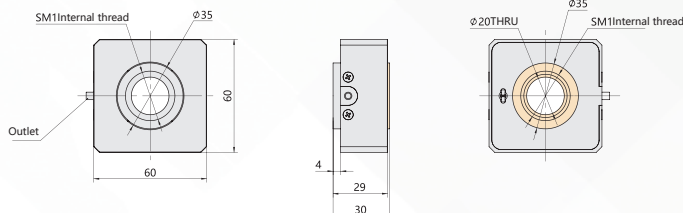
| Type | XD730.100S | XD730.100K | Units |
|--------------------------------------|------------|------------|-----------------------|
| Active axes | Z | Z | |
| Norminal travel range(0~120V) | 80 | 80 | $\mu\text{m}\pm 10\%$ |
| Travel range(0~150V) | 100 | 100 | $\mu\text{m}\pm 10\%$ |
| Sensor | SGS | - | |
| Resolution | < 10 | 1 | nm |
| Linearity | 0.06 | - | %F.S. |
| Repeatability | 0.01 | - | %F.S. |
| Unloaded resonant frequency | 450 | 450 | Hz $\pm 20\%$ |
| Unloaded step time | 30 | 2 | ms $\pm 20\%$ |
| Load capacity | 0.5 | 0.5 | kg |
| El. capacitance | 6.8 | 6.8 | $\mu\text{F}\pm 20\%$ |
| Operating temperature ^[1] | -20~80 | -20~80 | °C |
| Material | Steel,Al | Steel,Al | |
| Mass | 190 | 190 | g $\pm 5\%$ |
| Cable length ^[2] | 1.5 | 1.5 | m $\pm 10\text{mm}$ |
| Connector ^[2] | - | - | |

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.

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



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