

θ_x, θ_y axes | P35.T20S/K

Piezo Tip/Tilt Platform



Characteristics >>

- θ_x, θ_y tilt
- Tilt range to 27mrad
- Resolution to 0.3 μ rad
- Unloaded resonant frequency to 1.75kHz

Applications >>

- Laser scanning
- Image processing and stabilization
- Beam deflection
- Interlacing scanning, dithering
- Interference
- Light filter/optical switch
- Laser micromachine
- Active and adaptive optics

Introduction

Designed for high large-angle deflection applications, P35 Piezo Tip/Tilt Platforms provide beam deflections up to 86mrad (approximately 4.9 degrees, 17000"), making them ideal for fast deflection applications with high precision and large angle.



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790 Email: info@coremorrow.com
Fax: +86-451-86267847 Web: www.coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin
Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai

Technical Data >>

Type	S - closed loop K - open loop	P35.T20S	P35.T20K	Units
Active axes		θx, θy		
Driving channels		3		
Tilt angle(0~120V)		22/±11(≈ ±2268")		mrاد±10%
Tilt angle(0~150V)		27/±13.5(≈ ±2784")		mrاد±10%
Integrated sensor		SGS	-	
Resolution		0.8 (≈ 0.17")	0.3 (≈ 0.06")	μrad
Closed-loop linearity		0.08	-	%F.S.
Closed-loop repeatability		0.04	-	%F.S.
Unloaded resonant frequency		1750		Hz±20%
Resonant frequency @25.4×4mm		800		
El. capacitance		7.2/axis		μF±20%
Operating temperature ^[1]		-20~80		°C
Material		Titanium, aluminum		
Mass		260		g±5%
Cable length ^[2]		1.5		m±10mm
Sensor/voltage connector ^[2]		-		

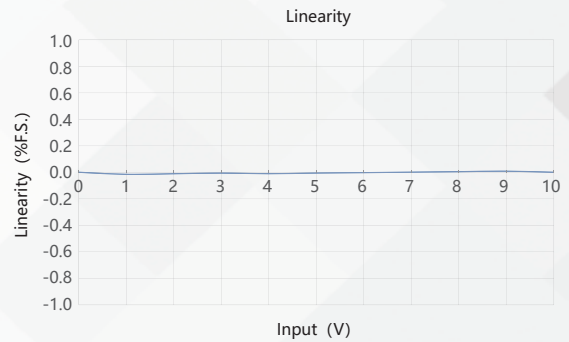
Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

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

[2] Custom cable length and connector is available.

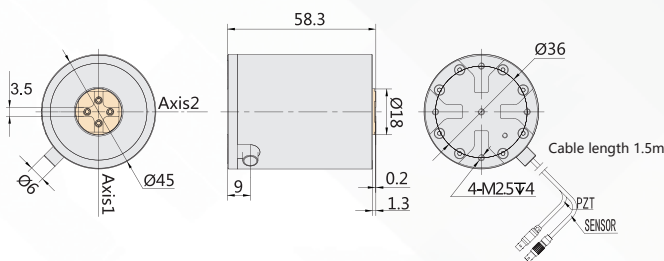
Note: The parallelism of the moving platform is about 20μm, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

Curves >>



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

Drawing >>



Recommended Controllers >>



E01.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



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790 Email: info@coremorrow.com

Fax: +86-451-86267847 Web: www.coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin

Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai