

## PRECISION ROTARY STAGE

### FEATURES

- Compact Design
- Orthogonal Tilting Axes
- High Stiffness
- High Resolution
- Backlash Free Positioning

### APPLICATIONS

- Precise Optical Stages
- Laser Beam Stabilization
- Image Stabilization
- Positioning System
- Scanning Systems

### DESCRIPTION

The RS400MR05UR has been developed for fast and fine mirror tilting at Rx, Ry axes. The system can tilt up to 50gr payload at 250Hz on Rx, Ry axes. The compact design and the high stiffness are perfect for Dynamic Applications. Precise optical image stabilization can be realized in near real time.

The angular deflection controlled by digital interface via serial bus on the computer. The robust controller algorithm running inside the driver can achieve position resolution up to 13 Bit



## SPECIFICATIONS

PARAMETERS	TEST CONDITIONS <sup>1</sup>	MIN	TYP	MAX	UNITS
Angular Tilt Range @ Rx, Ry	Full temperature range	±4	-	±5	Mrad
Optical Deflection Range @ Rx, Ry		16	-	20	Mrad
Angular Resolution		-	-	5<	μrad
Payload		-	-	50	gr
Bandwidth @ Max Payload		-	-	250	Hz
First Coupled Mode Resonance		1200	-	-	Hz
Frequency @ Max Payload					
Position Control Resolution		12	-	13	Bit
Operating Temperature		0	-	50	°C
Storage Temperature		-20	-	70	°C