



LS-50 Motorized Rotary Stage

The inexpensive LS-50 motorized rotary stage accommodates 2" and 50 mm optics. A stepper motor with a geared drive belt generates fast, repeatable motion. A micro-stepping driver and gear reduction enables precise rotary positioning. The stage is available with a 400 step (0.9° per step) motor with or without an encoder for closed loop positioning. A rugged bearing with 4-point contact supports both radial and thrust loads so the stage can be operated horizontally or vertically.

SPECIFICATIONS

- 4"x6"x0.875" footprint plus motor/encoder (thickness); available as shown above or with an encoder
- Optic holder with 2" bore, 1.875" clear aperture
- Precision, slim ball bearing with X-contact races
- Compact 400 step motor, 0.03 degree resolution and >100 rpm guaranteed
- Flexible belt drive with no backlash
- 1-8X microstepping driver, 12-24V power plus step and direction TTL pulses minimum requirement
- Variable speed and direction using logic (TTL) inputs for step and direction
- Rotation rates >100 rpm guaranteed
- Integrated reflective optical home sensor
- Optional encoder with 32-1250 cycles per revolution

Related products: Stepper Motor Controller, Turbulence Phase Plates

Please consult us if your requirements call for different specifications or if you need custom engineering or integration of this product or related products.

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