

# High-Speed Rotator

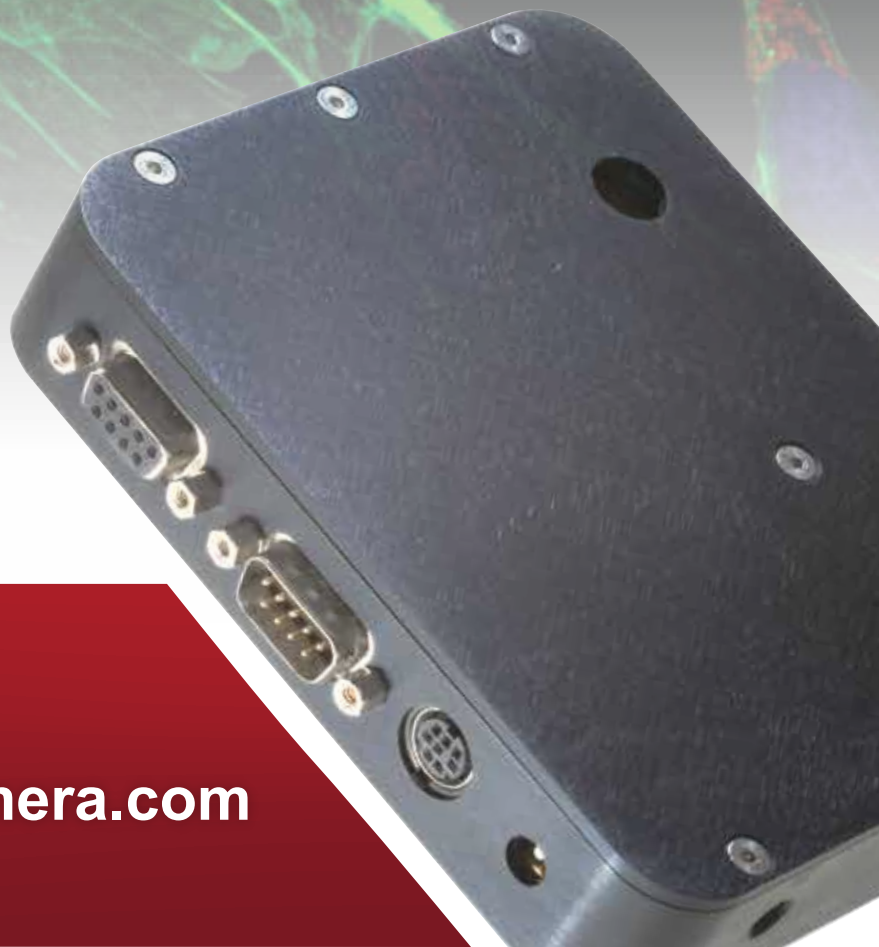
5ms Switching • Digital Triggering • Optical Elements  $\varnothing$ 12.5mm

## APPLICATIONS

- *Polarization Management*
- *Grating Rotation*
- *Structured Illumination*
- *System Integration*
- *Imaging Instrument Prototyping*



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# High-Speed Rotator



## Optimized Performance

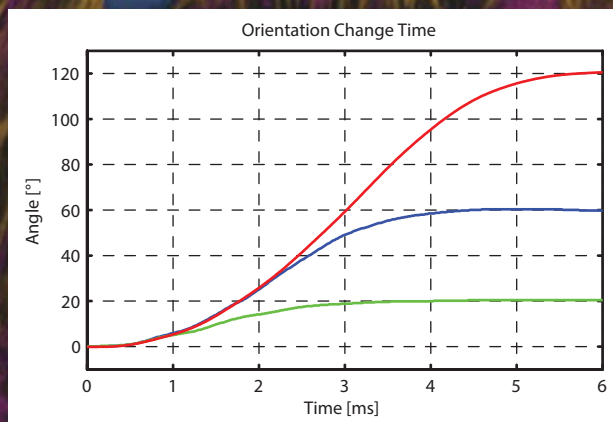
The High-Speed Rotator was designed to complement the frame rate of high-performance sCMOS cameras. With closely integrated mechanical, electrical, and control system design and state-of-the-art brushless motors, FLI introduces breakthrough accelerations and speeds, allowing 120° rotation change in 5ms.

## Technical Specifications

Angular Range	360° (2.5° increments)
Orientation Change Time	60° in 4ms, 120° in 5ms (4% settling)
Maximum Angular Velocity	25 000°/s
Optics Diameter / Thickness	12.5mm (0.5") / 1-3mm
Size	127mm × 102mm × 25mm (5" × 4" × 1")
Control	RS-232, Digital trigger

## Synchronization

To fully exploit the performance of the High-Speed Rotator, a digital trigger can be used to activate programmable motion commands. Combined with a motion indicator digital output, it provides a powerful and flexible solution for precise synchronization with cameras and other hardware. In automatic command sequence playback mode, the Rotator provides a clocking signal to connected devices.



## Key Performance Areas

- Fast optical element orientation change
- Digital triggering and motion indication
- Precision timing options
- Automatic command playback
- Compact package
- Integrated electronics

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