

OptoSpin25

25mm fast stepping filter wheel



Designed for high-speed fluorescence imaging and precision biological applications, the OptoSpin25 is the ultimate solution for researchers seeking rapid, reliable filter switching. By integrating the motor directly within the hub of the filter wheel, we eliminate excess bulk and reduce inertia, ensuring ultra-fast response times. Unlike conventional designs, which rely on smaller filter sizes to enhance speed, our advanced motor technology enables exceptional performance with 25mm filters—maximising light collection while maintaining swift operation. Whether you're conducting live-cell imaging, high-throughput screening, or FRET experiments, the OptoSpin25 delivers seamless, vibration-free filter changes for superior image quality.

Applications

- Multi channel fluorescence imaging
- High speed ratiometric imaging
- FRET
- Spectrophotometry
- Low-vibration microscopy

Top Advantages

- Two filter wheels can be mounted within the same overall 35mm optical path length
- Additional external control options
- Wide range of microscope adapters for illumination and detection

Key Features

- Stepping times down to 30msec between adjacent filters, 50msec between opposite ones
- Compact size, only 100 x 100 x 35mm
- Two filter wheels can be mounted within the same overall 35mm optical path length
- Simple filter loading system (leaves camera in place)
- Six standard 25mm filter positions per wheel
- Paired wheels can simulate a single ten-position wheel, with substantial speed advantage
- USB controller for up to two wheels
- USB drivers for various software packages

The OptoSpin25 can be coupled to various other Cairn Research and third-party products



The OptoSpin can be coupled to the outputs of our multi-camera image splitters



Or it/they can be coupled directly between the microscope and camera.

The OptoSpin power supply is used with both the OptoSpin25 and OptoSpin32

