OPTOSPIN32

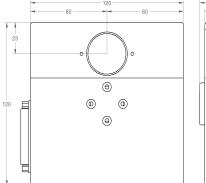
DATASHEET

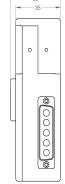
32mm fast spinning and stepping filter wheel

The Optospin32 is a further continuation of our long tradition in filter wheel design, dating back to the 1980s, but taking full advantage of the developments that have taken place in motor and control technology since then. It again uses our tried and tested approach of mounting the motor directly in the hub of the filter wheel, in order to maintain a compact size with low motor inertia and no need for any form of indirect drive connection. It's the bigger brother of our well established Optospin25 design, and as its name suggests, it takes 32mm rather than 25mm filters, in order to meet the steadily increasing number of occasions where larger beam diameters are required. The higher inertia of its necessarily somewhat larger diameter has been countered by use of a correspondingly more powerful motor, so its stepping time between filters is barely longer, and like its sibling it can spin continuously at up to 7.500 rpm too.



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





OPTOSPIN OVERALL DIMENSIONS (mm).



KEY BENEFITS

- Stepping times down to 40msec between adjacent filters, 70msec between opposite ones
- Continuous spinning up to 7,500 rpm, set by internal or external reference frequency
- Compact size, only 120 x 120 x 35mm (with additional central 4mm power bulge)
- Two filter wheels can be mounted within the same overall 35mm optical path length
- Simple filter loading system (leaves camera in place)
- Six 32mm filter positions per wheel
- Paired wheels can simulate a single ten-position wheel, with substantial speed advantage
- USB drivers for various software packages
- Universal controller for both our OptoSpin25 and OptoSpin32
- Digital control option for external software control
- Wide range of microscope adapters for illumination and detection



MULTICHANNEL EMISSION SPLITTING RANGE

NO.1 IN OPTICAL PERFORMANCE, STABILITY AND USABILITY

DATASHEET



OptoSplit II & III

With an elegant configuration for simple side by side image splitting and optimised for sensors up to 18.8mm diagonal, the OptoSplit delivers high throughput imaging at a realistic price. Ideal for FRET, ratiometric imaging, polarisation studies and most simultaneous imaging applications requiring two or three images. User-configurable cubes and intuitive x, y and focal adjustments offer convenience and simplicity.



Optosplit II Bypass

This builds on the success of the OptoSplit II, but adds a convenient single lever bypass mode making it more suitable for multi-user microscopes where simultaneous dual channel imaging is required for specific experiments alongside single wavelength recordings.



MultiSplit

Up to four channels simultaneously on one camera chip! The Multisplit uses the four quadrants of a single camera in a 2×2 square format. The Multisplit has the further possibility of simultaneous multi-depth imaging which is particularly attractive, as we can now do this at four depths rather than just two or three.



Multi Camera Adapters

Splitters for up to four channel imaging using multiple cameras (up to 22mm diagonal). Perform simultaneous recording, polarisation states or z depths without having to reduce their size. Variable rectangular aperture allows for the use of cropped sensor modes for the fastest speeds. Now with new more rigid camera mounting clamps and magnetically aligned filter cube facility.



OptoMask

Enables precise FOV control for the high-speed, cropped sensor mode offered by several camera manufacturers including Andor and Roper Scientific.



OptoSpin25

An intelligently designed, fast-spinning and stepping 25mm filter wheel. This slim unit has low inertia, enabling smooth operation and the ability to step between emission filters in 30ms, and spin continuously at 7500rpm when synchronised with a suitable light source. Change filters without moving the camera. Mount two units together in the same 35mm optical path length for versatile combinations. (6 position for one filter wheel, 10 position for two).

