Creative Solutions for Microscopy



DATASHEET

OPTOSPLIT II

Two-way image splitter

The industry leading Optosplit II image splitter from Cairn Research divides an image into two separate, spatially identical components. Displayed side by side on a single chip, this elegant device effectively doubles your research capacity with one camera.

Splitting is usually performed on the basis of wavelength, allowing applications such as ratiometric calcium imaging or FRET, however, polarising beamsplitters are also supported. The two images can be captured simultaneously offering a major benefit over manual or electronic filter changers. A rectangular aperture is used to define the region to be imaged, with a set of simple controls allowing the user to align the two channels on a variety of camera chip sizes. The Cairn Optosplit II can significantly widen the scope of any fluorescence imaging system.

KEY BENEFITS

- Optimised for sensor sizes up to 18.8mm diagonal (13.3x13.3mm)
- User configurable filter cubes with industry standard filters/dichroics
- Magnification options please ask for details
- Bypass mode to allow single wavelength imaging using either pathway
- Intuitive and independent x/y controls for simple alignment
- Accommodates ND filters or chromatic correction lenses
- Standard spectral range from 425nm to 875nm
- Supports cropped sensor modes
- Adjustable rectangular aperture for user defined field of view
- C-mount coupling to microscope or camera lens



APPLICATIONS

- Ratiometric calcium, voltage & pH imaging
- Förster Resonance Energy Transfer (FRET)
- Simultaneous dual probe widefield microscopy
- TIRF/Spinning disk confocal
- Simultaneous phase contrast/DIC and fluorescence
- Polarisation studies (anisotropy)



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MULTICHANNEL EMISSION SPLITTING RANGE

NO.1 IN OPTICAL PERFORMANCE, STABILITY AND USABILITY

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