Two-way image splitter

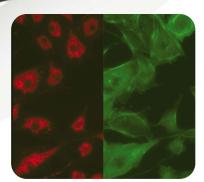
The industry leading Optosplit II image splitter from Cairn Research divides an image into two separate, spatially identical components. Displayed side by side on a single chip, this elegant device effectively doubles your research

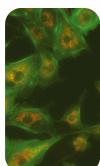
capacity with one camera.

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.



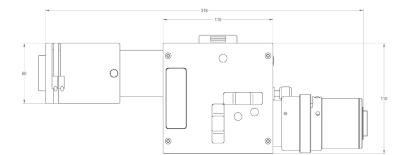
- Compact design with C-mount input and output ports as standard (F and T mount on request)
- Support for sensors up to 29.4mm diagonal
- Budget friendly alternative to two cameras
- 425nm to 875nm AR coatings on all optical surfaces
- 40mm diameter proprietary optics
- Simple & precise controls for image registration
- Interchangeable filter / dichroic holders
- Emission filter dimensions 25mm diameter
- Recommended dichroic dimensions 26x38x2mm (lambda/2 flatness)
- 1x, 1.3x and 1.7x magnification available
- Fixed or variable centre fully adjustable rectangular mask to delimit region of interest





APPLICATIONS

- Förster Resonance Energy Transfer (FRET)
- Ratiometric calcium, voltage & pH imaging
- Simultaneous multi fluorescent probe imaging
- TIRF/Spinning disk confocal
- Polarisation studies (anisotropy)
- Simultaneous phase contrast / DIC and fluorescence
- Simultaneous dual Z depth imaging
- Single Plane Illumination Microscopy (SPIM)
- 3D super resolution PALM/STORM





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