



Multisplit V2

Four-way image splitter

Image splitting is usually performed on the basis of wavelength, multi-depth and/or polarisation, this enables applications where there is a requirement for simultaneous, or high speed acquisition of multiple image emission bands, mini z stacks or polarisation states. The simultaneous acquisition of up to four images offers a major benefit over

manual or electronic filter changers, as there is no longer a need to pause acquisition while the filter position is changed. This allows cameras to be operated in high speed stream modes and reduces the demand on software.

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

Top Advantages

- Budget friendly alternative to three cameras
- Interchangeable filter/dichroic holders
- Simple & precise controls for image registration
- Magnetic cube mount for enhanced registration

Key Features

- C-mount input and output ports as standard (F and T mount on request)
- Support for sensors up to 29.4mm diagonal
- 425nm to 875nm AR coatings on all optical surfaces
- 40mm diameter proprietary optics
- Emission filter dimensions – 25mm diameter Recommended dichroic dimensions – 26x38x2mm ($\lambda/2$ flatness)
- Optional polarisation splitting kit including beamsplitter cube and rotatable polariser

The Multisplit V2 light path

