Datasheet

MultiCam

Three or four camera image splitter

The Cairn MultiCam system enables simultaneous imaging across three or four cameras from a single microscope port. Utilising precision-engineered, infinity-corrected optics and interchangeable filter cubes, it splits the light path according to wavelength, polarisation, or focal depth. This allows high-quality, multi-channel acquisition without the need for sequential imaging or multiple ports, ensuring perfect synchronisation across channels.

Each cube has fine mechanical X-Y adjustment for pixel overlay or deliberate image offset. The input of the instrument has a variable rectangular aperture enabling the use of cropped sensor mode on all detectors. Each port can be fitted with different magnification optics to accommodate all popular sensor sizes and a wide range of fields of view. As the internal optics are infinity corrected, manual or motorised filter changers can also be fitted to input and output ports.

Applications

- Förster Resonance Energy Transfer
- Simultaneous use of two dyes or genetic markers
- Ratiometric imaging
- Polarisation studies
- Simultaneous transmitted light and fluorescence
- Simultaneous multi-Z-depth imaging

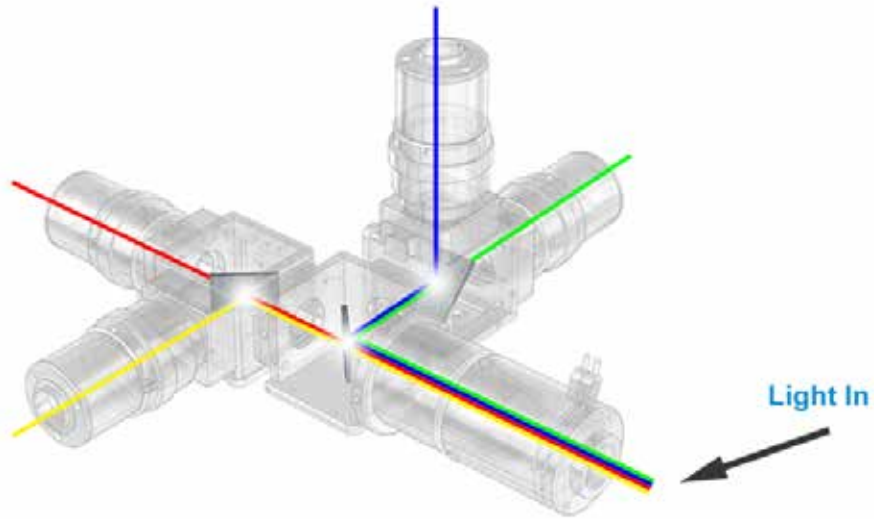
Top Advantages

- Engineered for super resolution quality.
- Interchangeable filter/dichroic holders
- Magnetic cube mount for enhanced registration
- 3 or 4 cameras on 1 microscope port

Key Features

- Can be configured for up to 4 cameras and easily upgradeable
- Choice of magnifications (upon request)
- Simple alignment and focussing
- Rapidly interchangeable cubes
- Improved camera clamps for enhanced rigidity on both upright and inverted frames

The MultiCam light path



Add-on 1

Four 13 mm x 19 mm sensor cameras coupled to each output

Add-on 2

Three outputs, with a filter wheel coupled to the transmitted path

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