TWINCAM Dual camera image splitter

DATASHEET

Engineered for super resolution quality

With custom designed optics, the Cairn TwinCam offers superior image quality on camera sensors up to 13.3x13.3mm. The TwinCam allows light to be distributed into two unrestricted images on the basis of wavelength, polarisation state or focal depth.

A single, rapidly interchangeable Cairn cube has fine mechanical x-y adjustment for pixel overlay or deliberate image offset. The TwinCam input also has a variable rectangular aperture enabling the use of cropped sensor mode on both detectors.

We have recently improved the camera fixing with enhanced rigidity for larger cameras and a simplified focus and orientation control. We have also added pupil plane focus adjustment to allow simple optimisation with spinning disk ports and to allow precise positioning of optical components in the pupil plane.



APPLICATIONS

- Förster Resonance Energy Transfer (FRET)
- Simultaneous use of two dyes or genetic markers
- Ratiometric calcium, voltage & pH imaging
- Polarisation studies (anisotropy)
- Simultaneous phase contrast / DIC and fluorescence
- Simultaneous high-speed and high resolution
- Simultaneous multi-depth imaging
- Improved camera clamps for enhanced rigidity and simplified focus

KEY BENEFITS

- Simple & precise controls for easy alignment and focussing
- Rapidly interchangeable filter cubes
- Polarisation rotator and beamsplitter option
- Magnification / demagnification on request
- Pupil plane focus adjustment
- Adjustable rectangular aperture for user defined field of view
- Auxiliary drop-in positions to easily mount / exchange emission filters



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MULTICHANNEL EMISSION SPLITTING RANGE

NO.1 IN OPTICAL PERFORMANCE, STABILITY AND USABILITY

DATASHEET





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