

# TWIN CAM

DATASHEET

## Dual camera image splitter

The TwinCam enables simultaneous dual emission imaging with unrestricted field of view



The TwinCam enables two cameras to be coupled to the same microscope port with pixel alignment. The base unit can accommodate one of our standard filter cubes allowing light to be distributed on the basis of wavelength, polarisation state or focal depth.

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 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 easy 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 imaging
- Polarisation studies
- Simultaneous transmitted light and fluorescence
- Simultaneous high speed and high resolution
- Simultaneous multi Z depth imaging
- Improved camera clamps for enhanced rigidity and simplified focus

### KEY BENEFITS

- Easy alignment and focussing
- Rapidly interchangeable cubes
- Polarisation rotator and beamsplitter option
- Magnification/demagnification – on request
- Pupil plane focus adjustment