OPTOMASK

DATASHEET

Adjustable field mask for region selection

C-mount to c-mount relay device with precise aperture control for high speed crop-mode imaging.

In most applications the aperture is intended to be in the centre or close to the centre of the microscope image plane. In order to enable the rapid "crop" and "kinetic" modes of Andor cameras it is necessary to accurately mask at the edge of the image plane. We therefore designed the OptoMask to enable an arbitrary rectangular region to be masked anywhere within the image plane.

The Optomask can now be fitted to the Cairn image splitters as a primary aperture selector.

Our traditional rectangular diaphragm is still used with our image splitters and photometry systems.

APPLICATIONS

- High speed crop-mode imaging with single-molecule detection cameras (eg Ixon Ultra)
- Multi channel imaging in conjunction with Cairn splitter and MultiCam products
- Region of interest definition for non-spatial detection (eg photomultiplier)
- High speed TIRF/Spinning disk confocal

KEY BENEFITS

- Precisely defined crop area anywhere on a sensor up to 18mm diagonal (eg Ixon+ 888)
- Instant changeover from cropped to full sensor mode
- Full range of magnification and demagnification options
- Standard spectral range from 450 to 900nm

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