# EMISSION INFINITYPORT

## **Engineered for super resolution quality**

The Cairn Emission Infinity port is a simple 1x relay device providing up to 200mm of infinity space to insert filter wheels or other devices for which the angle of incoming light is important.

In many microscope systems, filter wheels are built into the c-mount output, where the light is converging down to its focal point (i.e the camera chip). While this tends not to be a problem in standard widefield imaging, this can cause problems for advanced techniques where having converging light travelling through optical elements can cause refraction. Consequently, this can shift the focal point and alter the spectral properties of emission filters.

In addition to using this device to mount a filter wheel, it is also useful to extend the detection port away from the microscope to ensure a better fit with existing environmental chambers, where internal space is limited.



### **KEY BENEFITS**

- Broad wavelength range (425-875nm)
- Supports 18.8mm diagonal sensors
- Magnification options on request
- High throughput
- Maintains parfocality with the microscope eyepieces
- Maintains specified wavelength bands of optical filters

DATASHEET

- Infinity space flexible for a range of filter wheels
- Suitable for integrating phase plates or emission sliders into infinity space
- C-mount to C-mount device (F-mount on request)
- Can be used with a blank to move the detector away from the microscope
- Access to pupil plane



## **MULTICHANNEL EMISSION SPLITTING RANGE**

## NO.1 IN OPTICAL PERFORMANCE, STABILITY AND USABILITY

#### DATASHEET





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