

## **Mosaic 3 Infinity – High speed light patterning for microscopy**

Mosaic 3 Infinity is a patented device designed specifically for active illumination techniques such as Optogenetics, photobleaching and activation, and uncaging. Using a digital mirror array, Mosaic 3 can deliver illumination patterns across a broad wavelength spectrum and at speeds of up to 5KHz.

This ability to generate complex patterns simultaneously, sequentially or cumulatively, makes Mosaic 3 the ideal tool for optophysiology. The resolution of the system is such that it is possible to target single cells for photostimulation. The functionality of loading patterns into its on-board memory and calling them off with external triggers (e.g. from patch-clamp systems), means that complex physiology such as neuronal network signalling can be investigated with ease.

Mosaic 3 Infinity has been designed to easily attach to upright microscopes for simple integration into existing or new solutions, and supports a number of different light sources depending on the intended application. Please join our workshop to learn more about Mosaic 3 Infinity and how it might extend your research capabilities.