

Photostimulation Portfolio - Mosaic

Simultaneous multi-region light targeting

The Mosaic active illumination system utilizes digital mirror device (DMD) technology to control the illumination field of a fluorescence microscope. Using a choice of illumination sources, Mosaic achieves real time and near diffraction limited resolution.

Unlike traditional galvoscanning systems, where pixels are addressed sequentially, Mosaic can simultaneously and precisely excite multiple regions of interest with complex geometries and allow simultaneous imaging.

Operating from 365-800 nm, Mosaic is unique yet flexible. Mosaic SDK offers access to software independent high speed pattern sequencing, ideal for applications such as optogenetics that mimic high speed cell signaling. Greyscaling is also available for detailed pattern illumination such as required in photolithography.

Features

Unlimited flexibility in shape and complexity of illumination mask

No scanning - simultaneous illumination of multiple regions of interest

Create complex pattern sequences with software independent recall

High speed pattern recall (up to 5,000 fps)

Multiple light sources available

Find out more at
andor.com/ps



Key Applications

Optophysiology/optogenetics

FRAP and PA

Studies of cell dynamics

Uncaging - signaling

Selective region imaging

