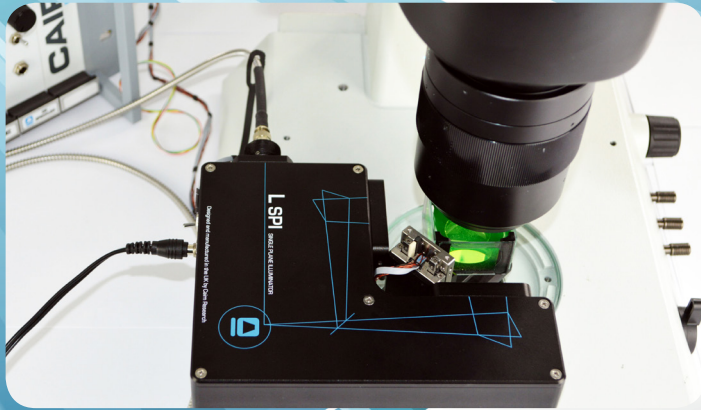


L-SPI Single Plane Illuminator

DATASHEET

Light sheet imaging

L-shaped Single Plane Illuminator (L-SPI) is a flexible, low-cost illumination module enabling ultra-low phototoxicity imaging of large specimens.



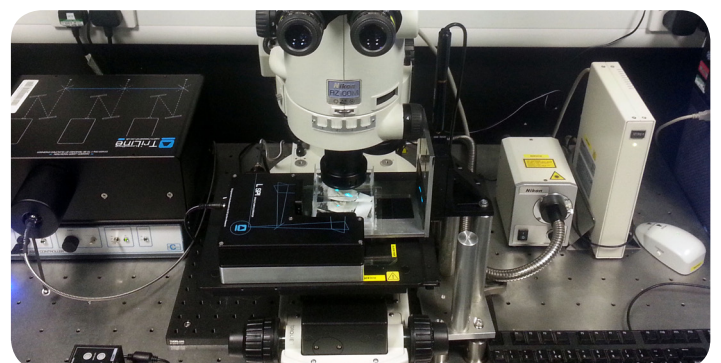
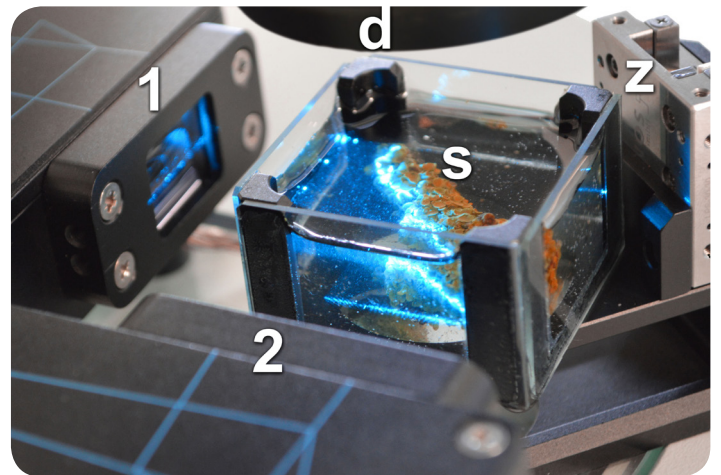
The L-SPI is designed to work with any macro- or microscope, single-mode fibre laser source and scientific camera. This simple and effective instrument recombines two uniform, wide lightsheets at right angles, reducing shadowing without the need for sample rotation or image fusion. The system includes optional sample chambers, fast long travel piezo stage and a second L-SPI head to bring sheets in from four directions. The L-SPI can be adapted to a wide range of experimental purposes. Its compact size and large freedom of access (e.g. for positioning micro-electrodes) make it a highly flexible solution.

KEY BENEFITS

- Live-cell imaging with ultra-low phototoxicity
- Spatial and temporal fractionation of illumination
- Orthogonal lightsheets reduce shadowing
- Uniform lightsheets for macroscopic observation of large samples down to individual cells
- Precise, fast and long-travel piezo stage
- Easy to use - software and microscope agnostic

SPECIFICATION AND OPTIONS

- Single or dual L-SPI heads generate 2 or 4 orthogonal sheets
- 22 μ m or 11 μ m thick sheets as standard
- 1.6mm confocal range with 22 μ m sheet
- X-Y field of view 16x16mm
- Continuous sweeping of focal plane for reduced power density and improved homogeneity
- Fast precise piezo stage
- 20mm of z travel, 10mm/sec speed, 10nm minimum step size
- Magnetic mounting platform for single or dual L-SPI
- Complementary LaserBank with SM fibres



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