

Leica SPE confocal mounted on a Leica IM8 microscope

Confocals collect signal only from a very narrow section of the samples obtaining very detailed and sharp images. A collection of Z-sections can be combined by 3D reconstruction enabling precise measurements of intensities and distances throughout your samples. The SPE is a basic confocal to document as many fluorescent dyes as one can separate on the display. It has one detector for fluorescence emission which can separate dyes of which the emission is only 10nm apart. Collection of transmitted light is done by a separate detector. The microscope has a galvo stage which moves up and down using electromagnetic fields. The galvo stage can move faster than motor driven stages and in steps of 20nm.

- For fixed or live samples.
- Equipped with epifluorescence and transmitted light
- Equipped with Galvo Z-stage to collect different virtual slices/ Z-levels through thick samples. Z-levels can be 3D reconstructed
- Equipped with time lapse collection
- Three lasers, one detector of which emission collection can be set freely
- Highest magnification 630x

