

Confocal Laser Scanning Microscope

Manufacturer: Leica

Model: TCS SP8

Descriptions:

Leica TCS SP8 has been designed for confocal microscopy with optimal photon efficiency and high speed. All optical components are matched towards preserving fluorescence photons for image contrast and to improve cell viability in live cell imaging. Backing up this sensitive detection are a high speed scanning system with up to 428 frames per second, large field of view of field number 22 and accelerated Z-stacking by a novel mode for the SuperZ galvanometer called GalvoFlow. This suits the instrument for the most demanding samples, highest speed while offering full confocal resolution.

The Leica TCS SP8 delivers publication ready images out of the box along with comprehensive upgrade options.



Leica TCS SP8 with flexible supply unit and inverted stand

Specifications

Scanners	Resonant scanner 8kHz	Specifications
	Maximal line frequency	16 kHz (bidirectional)
	Minimal line frequency	8 kHz
	Maximal frame rate 512 x 512	28 fps
	Maximal frame rate 512 x 16	290 fps
	Maximal frame resolution	1024 x 1024 pixel
	Scan zoom	1,3 – 48x
	Panning	Yes
	Field rotation	200° optical
	Field diameter	13 mm
	Resonant scanner 12kHz	Specifications
	Maximal line frequency	24 kHz (bidirectional)
	Minimal line frequency	12 kHz
	Maximal frame rate 512 x 512	40 fps
	Maximal frame rate 512 x 16	428 fps
	Maximal frame resolution	832 x 832 pixel
	Scan zoom	2 – 48x
	Panning	Yes
	Field rotation	200° optical
	Field diameter	8 mm
Scan modes	Scan options	Available
	xyz	Yes
	xzy	Yes
	xt	Yes
	xyt	Yes
	xzt	Yes
	xyzt	Yes
	xzyt	Yes
	xyλ	Yes
	xzλ	Yes
	xyλt	Yes
	xzλt	Yes
	xyλz	Yes
	xyzλt	Yes
	xyΛ	White Light Laser only
	xzΛ	White Light Laser only
	xyzΛ	White Light Laser only
	xyΛt	White Light Laser only
	xyΛλ	White Light Laser only
	xzΛλ	White Light Laser only