

In addition, the Leica TCS SP8 features 3 HyDs (hybrid detectors combining the characteristics of a classic PMT with a highly sensitive avalanche photodiode) and 1 PMT which can measure real time response of time-critical sequences due to its fast scan speed. The HyD detectors allow for the use of very low laser power to preserve sensitive samples and allow for repeated scans with minimal fluorescence bleaching. The instrument has a maximum image resolution of 64 Mpixels. Each laser can fire independently and detectors can be reprogrammed multiple times allowing for multi-color analyses.

Leica TCS SP8 Specifications

Microscope

- Leica DMi8 (inverted)
- Live cell chamber (Quad Black)
- Motorized scanning stage

4 air cooled lasers

- 405 nm direct modulation laser
- 488 nm solid state laser
- 552 nm solid state laser
- 638 nm solid state laser

Objectives

- 10x/0.40
- 20x/0.70
- 40x/1.25-0.75 oil
- 63x/1.20 water
- 63x/1.40 oil
- 63x/1.30 glycerin

Download the information on the cell culture dishes/or chambers for Leica SP8 confocal microscopy [here](#).

Download the Leica software (LAS AF Lite-version 2.3.0) [here](#).

A newer 64 bit version of LAS AF Lite (3.3.1) is available upon request.