

[Leica SP5II](#) Broadband Laser Scanning Confocal

- Laser lines:
 - 50mW diode 405nm
 - multi-line Argon (458, 476, 488, 596, 514 nm)
 - 1mW HeNe 543nm
 - 10mW HeNe 633nm
- [AOBS \(Acousto-Optical Beam Splitter\)](#)
- Two scanners mounted on Tandem scanner
 - Conventional Scanner scans up to 1400lines/s
 - Resonant Scanner scans at fixed 8000lines/s.
- Objectives:
 - [5X/0.15 HC PL FLuotar, WD 13.7 mm](#), for viewing only, not for Confocal
 - [10X/0.4 multi-immersion HC PL APO CS, WD 0.34 mm](#)
 - [20X/0.70 multi-immersion HC PL APO CS, WD 0.26-0.17mm](#)
 - [40X/1.30 Oil HCX PL APO CS, WD 0.22 mm](#)
 - [63/1.4-0.6 Oil PL APO, WD 0.14 mm](#), for one channel Confocal only
 - 100X/1.4-0.7 Oil HCX PL APO CS, WD 0.09 mm
- SuperZ Galvo Stage, inserts for glass slides and petri dishes up to 35 mm, and multi-well plate
- 4-Channel Leica SP [Spectral Fluorescence Detection](#), two HyD and two regular PMT detectors
- [HyD detector](#)
 - Supersensitive photon detection with maximum quantum efficiency of ~45 % at 530 nm (twice as much as a standard PMT)
 - Very low dark noise to render the finest details
 - Photon counting capability for fluorescence detection
- One CMT Transmitted light detector for bright field, or polarized or, DIC imaging.
- Eyepiece Fluorescence filter cubes:
 - A: long-pass DAPI, EX: BP360-380, DM: 400, EM: LP 425
 - I3: long-pass Blue, EX: BP450-490, DM: 510, EM: LP 515
 - N2.1: long-pass Green, EX: BP515-560, DM: 580, EM: LP 590
- FRAP, FRET SE, FRET AB