

LiTone XL Light-sheet Microscope Specification

Light Sheet Generation	4-orthogonal non-diffraction beam
Laser Unit	Solid state laser: 405nm, 488nm, 561nm, 647nm
Filter Sets	Multi-band-pass filter sets for DAPI/GFP/mCherry/Alexa647
Camera	Hamamatsu Flash 4.0 V3 sCMOS Camera
Detection Objectives	Olympus 4x 0.28 N.A., 25mm W.D. Apochromatic LWD Objective. Olympus 10x 0.6 N.A., 8mm W.D. Multi-immersion with Correction Collar 1.33-1.52. Olympus 25x 1.0 N.A., 8mm W.D. Multi-immersion Correction Collar 1.41-1.52. Olympus 25x 0.95 N.A., 8mm W.D. Multi-immersion with Correction Collar 1.33-1.40. Nikon 16x 0.8 N.A., 3mm W.D. Water Dipping Objective.
Sample Stage	Miniature piezo-motor sample stages, X-Y-Z stack.
Sample Bath	Detachable sample bath with 4-side illumination windows with refractive index matching optical design. Max internal dimension: 42mmx42mmx20mm.
Sample Holder	Sample holder set for samples from 0.5mm to 25mm. Clip type (hard sample). Fish-tank type (soft sample).
Live Imaging Incubation Toolkit	3 heated sample baths with temperature controller. 1 model with glass bottom. 1 model compatible to Nikon CFI75 Objective. 1 model Compatible to Olympus XLSLPLN25XSVMP2 multi-immersion objective. CO2 gas mixer module. 0-10% CO2 output and external humidifier.
Analysis software	Amira, LiTscan