

LaVision Trim II Multi-photon

Objective Lens

Magnification/NA	Immersion media	Lense type	Phase contrast	DIC	Working distance	Coverglass thickness
10x /0.6	Refractive index of immersion range of liquids 1.33-1.52	Olympus XLPLN -SVMP	X	X	8.0 mm	0-0.23 mm
20x/1.0	Water dipping	Zeiss W Plan Apochromat , DIC(UV)VIS-IR	X	X	1.7 mm	0.17 mm
25x 1.0	Refractive index of immersion range of liquids 1.41-1.52	Olympus XLSPLN -GMP	X	X	8.0 mm	0-0.23 mm
60x/1.10	Water dipping	Olympus LUMFLN	X	Yes	1.5 mm	0

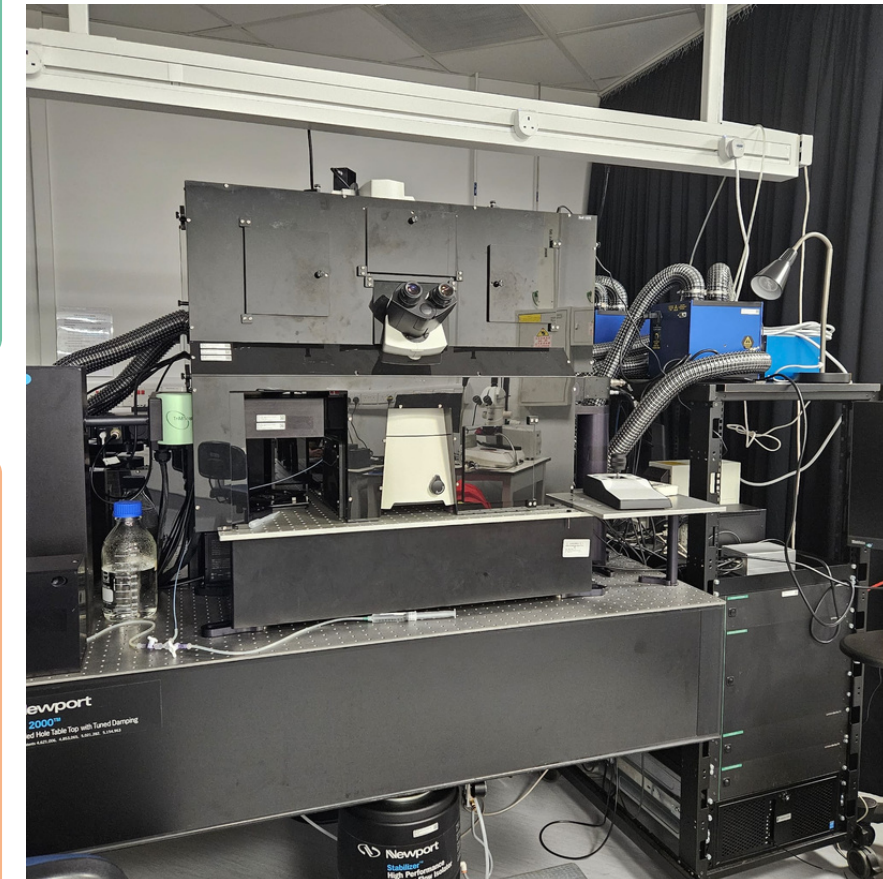
FL Filter Wheel

Channels	Excitation	Dichroic	Emission Filters	Notes
Blue	Any	FF458	420-460 nm	*MP filters needs to be selected manually based on dye emission maximum various options are available to choose from broad and short band pass filters with appropriate selection of dichroic mirrors
			420-500 nm	
			463.5-486.5 nm	
Green	Any	T505	498-520 nm	
			505.5-544.5 nm	
			524-546 nm	
Red	Any	T560	550-610 nm	
			581.5-618.5 nm	
			605-625 nm	
			612-644 nm	
			659-701 nm	

Light sources

Excitation source	Fluorescence Lamp	X-Cite 120Q for upright microscope body Nikon intenslight C-HGFI illuminator for inverted microscope body
	Laser	Coherent femto-second mode locked tunable T:Sapphire laser (680-1050 nm)
Detectors	Two PMT detectors	
	Three GaAsp detectors mainly used for auto fluorescence imaging	
	Becker & Hickl FLIM detector for Two photon fluorescence lifetime imaging	

Microscope Body	Nikon Ti Inverted microscope body for Organo typic cells (OTC), live cells, tissue sections etc. Modified Olympus BX Upright microscope body for intravital imaging
Sample formats	#1.5 Glass bottom dishes for inverted microscope body (suitable for OTC and live cell imaging)
Incubators	Inverted microscope body is fitted with cage-incubator and 5% co2 for live cell imaging Upright microscope body is fitted with cage-incubator for animal imaging
Software	Inspector (LaVision Biotech)



Functions

Optical sectioning, Label free imaging, FLIM and FRET applications