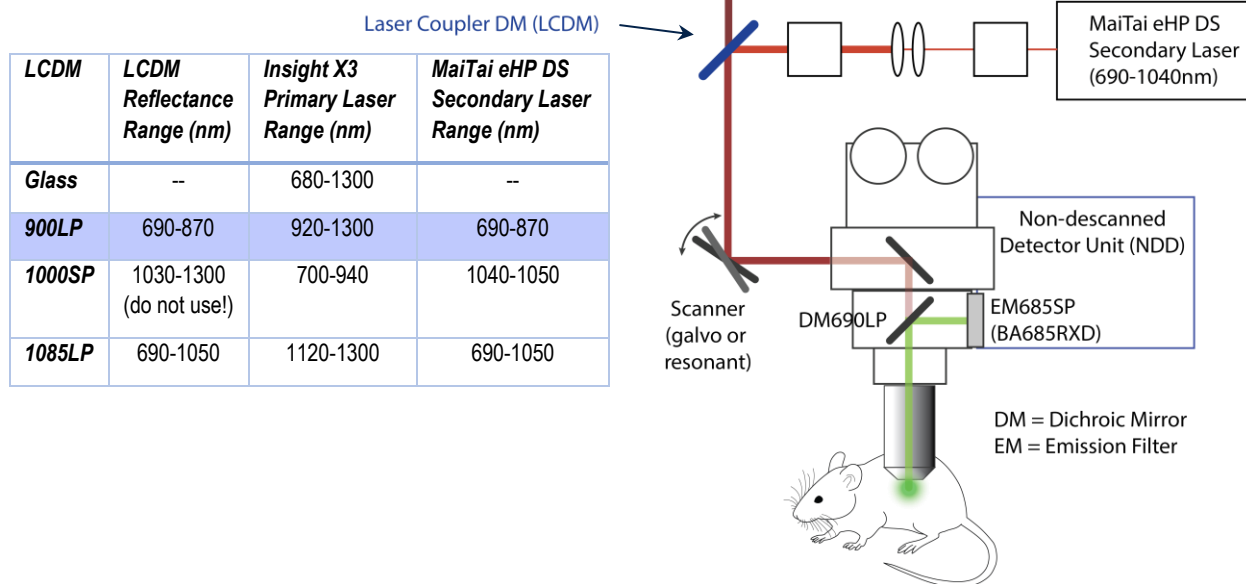


## Olympus MPM Optical Pathway



## Objective Specifications\*\*

Magnification	NA	Type	Immersion	Coverslip thickness (mm)	Working distance (mm)	Transmission (>70%)
25X	1.05	XLPlan N	Water*	0-0.23	2	380-1300
10X	0.6	XLPlan N	Water*	0-0.23	8	380-1600
4X	0.28	XLFluor	Air	any	28.8-30.0	340-780
2X	0.06	Plan N	Air	any	5.8	?

\*10X and 25X correction collars can partially correct for refractive index as well as coverslip thickness. (10X: SV0 = Scaleview  $n=1.38$  ( $n=1.33-1.52$ ); 25X: Set 0 to coverslip thickness and then move to higher numbers according to depth ( $n=1.36$  assumed)).

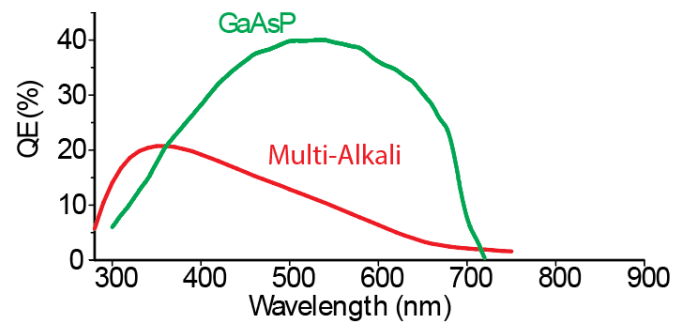
\*\*These objectives came with the MPM. We have more Olympus objectives in the facility. Contact staff if you have other needs.

## NDD Filter configurations

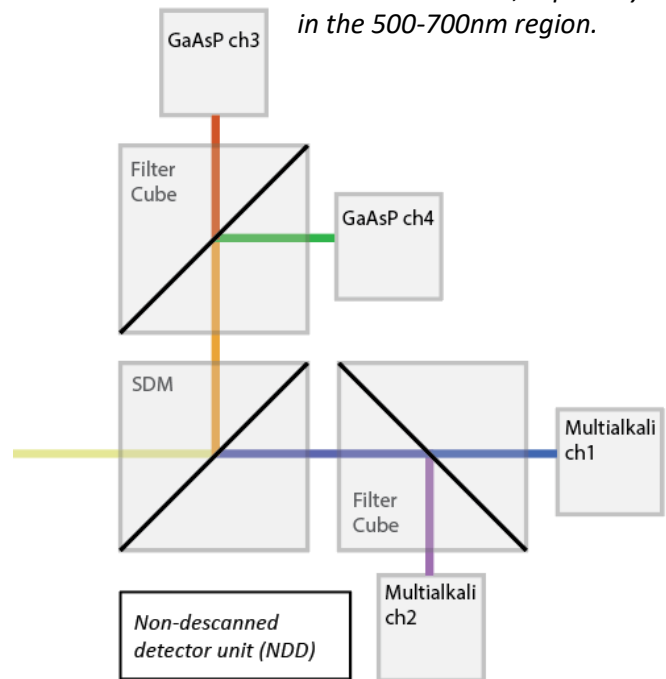
(SP=short pass and LP=long pass):

SDM slider must be OUT for these channels to be active

Multialkali block Ch2/Ch1	SDM (Spectral dichroic mirror block)	GaAsP block Ch4/ Ch3
UV/B	565SP	R/FR
SHG/G	565SP	R/FR
B/G	565SP	R/FR
C/Y	565SP	R/FR
UV/B	495SP	G/R
UV/B	495SP	R/FR
R/FR	570LP	UV/B
R/FR	570LP	SHG/G
R/FR	570LP	B/G
R/FR	570LP	C/Y
--	Mirror	UV/B
--	Mirror	SHG/G
--	Mirror	B/G
--	Mirror	C/Y
--	Mirror	G/R
--	Mirror	R/FR
UV/B	Empty	--
SHG/G	Empty	--
B/G	Empty	--
C/Y	Empty	--
G/R	Empty	--
R/FR	Empty	--



\*Note that GaAsP detectors are more sensitive, especially in the 500-700nm region.



## Twin Laser MPM Filter Specifications (nm):

Abbrev	Description	Em1	Dichroic	Em2
UV/B	UV/Blue pack	370-410	425LP	435-485
SHG/G	SHG/Green pack	370-410	484LP	498-542
B/G	Blue/Green pack	420-460	485LP	498-542
C/Y	Cyan/Yellow pack (FV30-FCY)	460-500	505LP	520-560
G/R	Green/Red pack	510-560	570LP	572-648
R/FR	Red/FarRed pack (FV30-FRCY5)	575-645	650LP	660-750