

CFI Apochromat Lambda S series

These high-numerical-aperture (NA) objectives provide chromatic aberration correction over wavelengths ranging from violet to near-infrared and are ideal for multicolor confocal imaging. The LWD Lambda S 20XC WI lens has a chromatic aberration correction range up to infrared. The transmittance of these lenses is enhanced over a wide wavelength range by utilizing Nano Crystal Coat technology.



CFI Apochromat Lambda S 40XC WI/60X Oil and CFI Apochromat LWD Lambda S 20XC WI/40XC WI

CFI Apochromat TIRF series

These objectives boast an unprecedented NA of 1.49 (using a standard coverslip and immersion oil), the highest resolution among Nikon objectives. Correction collars enable optimization of point spread functions for varying imaging temperatures, correcting spherical aberration when imaging at 23 and 37 degrees Celsius.



CFI Apochromat TIRF 60XC Oil and 100XC Oil

Multiphoton confocal objectives

These objectives are optimized for deep tissue imaging using a multiphoton confocal microscope, thanks to their ability to correct chromatic aberration up to near-IR range. They provide both long WVD and high NA, as well as high transmittance. The Glyc models have a correction collar for the refraction index of immersion liquids, and are compatible with various tissue clearing reagents that are used in neuroscience research.



CFI Plan Apochromat 10XC Glyc, CFI90 20XC Glyc and CFI75 Apochromat 25XC W 1300

Use	Model	NA	W.D. (mm)	Cover glass thickness	Spring loaded	Brightfield	Darkfield	DIC	Phase contrast	Polarizing	Fluorescence			
											UV	Visible light	NIR	TI2-E PFS
Confocal (CFI Apo)	LWD Lambda S 20XC WI	0,95	0,99-0,90	0,11-0,23		○	●	○	○	○	○	○	○	●
	LWD Lambda S 40XC WI	1,15	0,61-0,59	0,15-0,19		○	●	○	EXT PH3-40X	○	○	○	○	●
	Lambda S 40XC WI	1,25	0,20-0,16	0,15-0,19	✓	○		○	EXT PH3-40X	○	○	○	○	●
	Lambda S 60X Oil	1,40	0,14	0,17		○		○	EXT PH3-60X	○	○	○	○	●
Evanescent (CFI Apo)	TIRF 60XC Oil	1,49	0,16-0,10 (23°C) 0,15-0,07 (37°C)	0,13-0,19 (23°C) 0,15-0,21 (37°C)	✓	○		○	EXT PH4-60X	○	●	○	○	●
	TIRF 100XC Oil	1,49	0,16-0,10 (23°C) 0,15-0,09 (37°C)	0,13-0,19 (23°C) 0,14-0,20 (37°C)		○		○	EXT PH4-100X	○	●	○	○	●
Multiphoton confocal (CFI Plan Apo)	10XC Glyc	0,50	Upright: 5,50 Inverted: 2,00	0-0,17		○	○	○			○	○	○	○
Multiphoton confocal (CFI90)	20XC Glyc*	1,00	8,20	0		●							○	
Multiphoton confocal (CFI75 Apo)	25XC W*	1,10	2,00	0		○	●	○	○	○	○	○	○	○
	25XC W 1300*	1,10	2,00	0		○	●	○	○	○	○	○	○	○

* Dedicated for FN1 and NIR-E focusing nosepiece type

** Can only be used as a finder (chromatic aberration is corrected above 588 nm)

*** Also compatible with near-infrared DIC