

CFI Plan Achromat Lambda series

This series of objectives incorporates "Nano crystal coat" technology which dramatically improves light transmission over a wide spectral range, including near-IR. Chromatic aberration correction (up to near-IR), resolution and image flatness of these objectives are unrivaled, ensuring the highest quality images for a variety of applications.



CFI Plan Achromat Lambda 2X, 4X, 10X, 20X, 40XC, 60XC, 60X Oil and 100X Oil



CFI Plan Achromat DM Lambda 20X, 40XC, 60XC, 60X Oil and 100X Oil

Use	Model	NA	W.D. (mm)	Cover glass thickness	Spring loaded	Brightfield	Darkfield	DIC	Phase contrast	Polarizing	Fluorescence		T12-E PFS	
											UV	Visible light		
Brightfield (CFI Plan Apo)	Lambda 2X	0.10	8.50	—		☉				○	●	○	○	
	Lambda 4X	0.20	20.00	—		☉				○	●	○	○	
	Lambda 10X	0.45	4.00	0.17		☉	△			○	●	○	○	
	Lambda 20X	0.75	1.00	0.17	✓	☉	○			○	●	○	○	
	Lambda 40XC	0.95	0.25-0.16	0.11-0.23	✓	☉	●			○	●	○	○	
	Lambda 60XC	0.95	0.21-0.11	0.11-0.23	✓	☉	●			○	●	○	○	
	Lambda 60X Oil	1.40	0.13	0.17	✓	☉	○		EXT PH3-60X	○	●	○	○	
	Lambda 100X Oil	1.45	0.13	0.17		☉	○		EXT PH3-100X EXT PH4-100X	○	●	○	○	
	Lambda S 25XC SII	1.05	0.55	0.11-0.23		☉	●				○	●	○	
	Lambda S 40XC SII	1.25	0.30	0.13-0.21 (23°C) 0.15-0.23 (37°C)		☉	●					○	●	○
	IR 60XC WI	1.27	0.18-0.16	0.15-0.19	✓	☉						○	○	○
	NOG 100X Oil	1.40	0.16	0	✓	☉						○	○	○
	Phase contrast (CFI Plan Apo)	DM Lambda 20X	0.75	1.00	0.17	✓	○	●		◎ PH2		●	○	○
DM Lambda 40XC		0.95	0.25-0.16	0.11-0.23	✓	○	●		◎ PH2		●	○	○	
DM Lambda 60XC		0.95	0.21-0.11	0.11-0.23	✓	○	●		◎ PH2		●	○	○	
DM Lambda 60X Oil		1.40	0.13	0.17	✓	○	●		◎ PH3		●	○	○	
DM Lambda 100X Oil		1.45	0.13	0.17	✓	○	●		◎ PH3		●	○	○	

Glossary
 C: with correction collar
 Oil: oil immersion
 WI: water immersion
 W: water dipping
 M: multi immersion
 Glyc: glycerin immersion
 Silt: silicone oil immersion

Cover glass thickness
 —: can be used without cover glass
 ○: use without cover glass

Darkfield
 Possible with the following
 △: universal condenser (dry) and darkfield ring
 ○: above and darkfield condenser (dry)
 ●: darkfield condenser (oil)

Phase rings
 PH1, PH2, PH3: condenser cassette modules
 PH4, PH1, PH2, PH3: condenser cassette modules
 EXT PH3, EXT PH4: external phase contrast modules for T12-E,
 EXT PH3, EXT PH4: external phase contrast modules for T12-E,
 Fluorescence (UV)
 ●: possible with visible light that has a longer wavelength than
 the excitation light used for DAPI
 ○: suitable
 ◎: recommended for best results
 340: high transmittance with an ultraviolet wavelength range of
 down to 340 nm

Brightfield/DIC/Polarizing/Fluorescence
 (visible light)
 ●: possible but not recommended
 ○: suitable
 ◎: recommended for best results
 T12-E PFS
 ●: compatible with PFS