

Nikon CF Plan 20x / 0.40 Microscope Objective



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Objectives for Industrial Microscopes

These objectives have been designed for the CFI60 system, Nikon's proprietary optical system combining infinity optics with the superior performance of the CF optical system. The advantage of the parfocal distance of 60 mm, a new standard, has been utilized to lengthen working distance while maintaining high NA, and produce images that are crisp and clear with high contrast and high resolution.

CFI60 Objectives



	Type	Magnification	NA	W.D. (mm)
Brightfield Type	CFI L Plan EP (Achromat)	2.5X	0.075	8.8
	CFI LU Plan EPI	5X	0.15	23.50
	Standard-type objectives (Achromat)	10X	0.30	17.30
		20X	0.45	4.50
		50X	0.80	1.00
		100X	0.90	1.00
	CFI LU Plan Apo EPI	100X	0.95	0.40
	Deluxe-type objectives (Apochromat)	150X	0.95	0.30
		150X	1.25	0.25
	CFI L Plan Apo EPI WI			
	Deluxe-type water-immersion objectives (Apochromat)	20X	0.40	13.00
		50X	0.55	10.10
		100X	0.80	3.50
	CFI L Plan EPI SLWD	20X	0.35	24.00
	Ultra-long working distance objectives	50X	0.45	17.00
		100X	0.70	6.50
Brightfield/ Darkfield Type	CFI LU Plan BD	5X	0.15	18.00
	Standard-type objectives (Achromat)	10X	0.30	15.00
		20X	0.45	4.50
		50X	0.80	1.00
		100X	0.90	1.00
	CFI LU Plan BD ELWD	20X	0.40	13.00

Polarizing Type	Long working distance objectives	50X	0.55	9.80
		100X	0.80	3.50
	CFI LU Plan Apo BD	100X	0.90	0.51
	Deluxe-type objectives (Apochromat)	150X	0.90	0.42
	CFI LU EPI P	5X	0.15	23.50
		10X	0.30	17.30
		20X	0.45	4.50
		50X	0.80	1.00
		100X	0.90	1.00

CF Objectives

	Type	Magnification	NA	W.D. (mm)
Brightfield Type	CF M Plan	5X*2	0.10	20.0
	Standard-type objectives (Achromat)	10X*2	0.25	9.0
	CF M Plan DIC	10X*2	0.25	9.0
	DIC/Reflective polarizing objectives			
	CF M Plan Apo	150X*2	0.95	0.2
Long Working Distance Type	Deluxe-type objectives (Apochromat)			
	Brightfield CF M Plan LWD	20X*2	0.40	6.0
	Long working distance objectives			
	CF M Plan SLWD	100X*2	0.75	4.7
	Ultra-long working distance objectives			

CF Infinity Corrected Objectives



The following objectives support the CF Infinity Corrected Optical System that combine the field-proven CF optics with infinity corrected optics to produce sharp, high resolution images with minimal flare and high contrast.

	Type	Magnification	NA	W.D. (mm)
Brightfield Type	CF IC EPI E Plan	5X	0.10	20.0
	Standard-type objectives (Achromat)	10	0.25	12.5
		20	0.40	3.8
		50	0.75	0.48
		100	0.90	0.23

Brightfield/ Darkfield Type	CF IC EPI Plan	1.5X*1	0.045	3.6
	Standard-type objectives	2.5X*1	0.075	8.8
	(Achromat)	5X	0.13	22.5
		10X	0.3	16.5
		20X	0.46	3.1
		50X	0.8	0.54
		100X	0.95	0.3
	CF IC EPI Plan Apo	50X	0.95	0.35
	Deluxe-type objectives	100X	0.95	0.32
	(Apochromat)	150XA	0.95	0.2
		200X	0.95	0.2
	CF IC BD E Plan	5X	0.1	12.0
	Standard-type objectives	10X	0.25	7.0
	(Achromat)	20X	0.4	3.1
		50X	0.75	0.54
		100X	0.9	0.34
	CF IC BD Plan	5X	0.13	10.0
	Standard-type objectives	10X	0.3	6.5
	(Achromat)	20X	0.46	3.1
		40X	0.65	1.0
		50X	0.8	0.54
		100X	0.9	0.39
	CF IC BD Plan Apo	50X	0.9	0.42
	Deluxe-type objectives	100X	0.9	0.4
	(Apochromat)	150XA	0.9	0.29
		200X	0.9	0.3
	CF IC BD Plan DIC	5XA	0.13	10.0
	DIC/reflective polarizing	10X	0.3	6.5
	objectives	20X	0.46	3.1
		50X	0.8	0.54
		100X	0.9	0.39
Long Working Distance Type	CF IC EPI Plan ELWD	20X	0.4	11.0
	Long working distance	50X	0.55	8.7
	objectives	100X	0.8	2.0
	CF IC EPI Plan SLWD	10X	0.21	20.3
	Ultra-long working distance	20X	0.35	20.5
	objectives	50X	0.45	13.8

Special-Use Type		100X	0.73	4.7
	CF IC BD Plan ELWD	20X	0.4	11.0
	Long working distance objectives	50X	0.55	8.2
		100X	0.8	2.0
	CF IC BD Plan ELWD	20X	0.4	11.0
	DIC/reflective polarizing objectives	50X	0.55	8.2
		100X	0.8	2.0
	CF IC EPI Plan DI	10X	0.3	7.4
	For double-beam interferometry	20X	0.4	4.7
		50X	0.55	3.4
	CF IC EPI Plan TI	2.5X	0.075	10.3
	For interferometry	5X	0.13	9.3
	CF IC LCD Plan CR	20X	0.4	10.11-10.54
	For inspecting LCDs (with cover glass correction 0.6-1.2mm)	50X	0.55	7.71-8.15
		100X	0.8	1.10-1.12

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