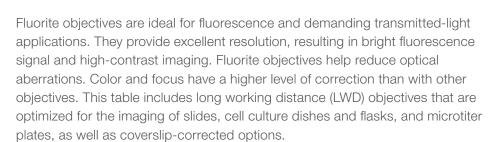
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EVOS objectives

We offer a comprehensive portfolio of objectives for Invitrogen $^{\text{\tiny TM}}$ EVOS $^{\text{\tiny TM}}$ imaging systems to suit your needs. All EVOS $^{\text{\tiny TM}}$ objectives offer outstanding optical performance from visible light to near-infrared light. The extensive choice of objectives satisfies needs across the spectrum of magnifications and optical specifications.





Plan fluorite									
Magnification	NA	WD (mm)	Bright-field	Phase	Long working distance	Coverslip- corrected	Optimal vessel thickness (mm)	Oil	Cat. No.
4x	0.13	19.7	•		•		1.2		AMEP4622
	0.13	16.9	•	•	•		1.2		AMEP4680
	0.13	10.58	•		•		1		AMEP4922
	0.13	10.58	•	•	•		1		AMEP4980
10x	0.3	8.3	•		•		1.2		AMEP4623
	0.25	9.2	•	•	•		1.2		AMEP4681
	0.3	7.13	•		•		1		AMEP4923
	0.25	7.13	•	•	•		1		AMEP4981
20x	0.45	7.1	•		•		1.2		AMEP4624
	0.4	3.1	•	•	•		1.2		AMEP4682
	0.5	2.5	•			•	1.2		AMEP4698
	0.45	6.23	•		•		1		AMEP4924
	0.45	6.12	•	•	•		1		AMEP4982
40x	0.65	2.8	•		•		1.2		AMEP4625
	0.65	1.79	•		•		1		AMEP4925
	0.65	1.6	•	•	•		1.2		AMEP4683
	0.65	1.79	•	•	•		1		AMEP4983
	0.75	0.72	•			•	0.17		AMEP4699
	1.3	0.2	•			•	0.17	•	AMEP4735
60x	0.75	2.2	•		•		1.2		AMEP4626
	0.75	1.28	•		•		1		AMEP4926
100x	1.28	0.21	•			•	0.17	•	AMEP4696

 $\label{eq:NA} NA = numerical \ aperture; \ WD = working \ distance.$



^{*} Recommend 1.0 mm thickness for glass slides.

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Achromat objectives are ideal for general applications. Color and focus have standard correction compared to apochromat and fluorite objectives. This table includes LWD objectives that are optimized for the imaging of slides, cell culture dishes and flasks, and microtiter plates, as well as coverslip-corrected options.

Plan achromat									
Magnification	NA	WD (mm)	Bright-field	Phase	Long working distance	Coverslip- corrected	Optimal vessel thickness (mm)	Oil	Cat. No.
Wagiiiication			Bright-heid	Filase		Corrected		Oll	
2x	0.06	5.1	•		•		1.2		AMEP4631
	0.06	5.62	•		•		1		AMEP4931
4x	0.13	16.9	•	•	•		1.2		AMEP4632
	0.13	10.58	•	•	•		1		AMEP4932
10x	0.25	6.9	•	•	•		1.2		AMEP4633
	0.25	7.45	•	•	•		1		AMEP4933
20x	0.4	6.8	•	•	•		1.2		AMEP4634
	0.4	6.92	•	•	•		1		AMEP4934
40x	0.65	3.1	•	•	•		1.2		AMEP4635
	0.65	2.74	•	•	•		1		AMEP4935
50x	0.95	0.19	•			•	0.17	•	AMPFOP050
100x	1.25	0.15	•			•	0.17	•	AMPFOP100

^{*} Recommend 1.0 mm thickness for glass slides.

Apochromat objectives are ideal for the most demanding applications, especially capturing color images in white light. They provide the highest level of resolution, fluorescence brightness, contrast, and chromatic correction compared to achromat and fluorite objectives. This table includes LWD objectives that are optimized for the imaging of slides, cell culture dishes and flasks, and microtiter plates, as well as coverslip-corrected options.

Plan apochromat										
Magnification	NA	WD (mm)	Bright-field	Phase	Long working distance	Coverslip-corrected	Oil	Cat. No.		
1.25x	0.04	5.11	•		•			AMEP4736		
2x	0.08	6.22	•		•			AMEP4751		
4x	0.16	13	•		•			AMEP4752		
10x	0.4	3.1	•			•		AMEP4753		
20x	0.75	0.65	•			•		AMEP4734		
40x	0.95	0.18	•			•		AMEP4754		
60x	1.42	0.15	•			•	•	AMEP4694		
100x	1.4	0.13	•			•	•	AMEP4733		

Long working distance vs. coverslip-corrected objectives

Long working distance

Optimized for use through vessels with nominal wall thickness of 0.9–1.5 mm (slides, flasks, microtiter dishes, etc.).

Coverslip-corrected

Optimized for use through #1.5 coverslips (approximately 0.17 mm thick). Have a higher magnification-to-NA ratio and provide higher resolution than long working distance objectives.



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