

# EVOS objectives



We offer a comprehensive portfolio of objectives for Invitrogen™ EVOS™ imaging systems to suit your needs. All EVOS™ 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.

Fluorite objectives are ideal for fluorescence and demanding transmitted-light applications. They provide excellent resolution, resulting in bright fluorescence signal and high-contrast imaging. Fluorite objectives help reduce optical aberrations. Color and focus have a higher level of correction than with other objectives. This table includes long working distance (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 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

NA = numerical aperture; WD = working distance.

\* Recommend 1.0 mm thickness for glass slides.

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.
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.

Find out more at [thermofisher.com/evos](http://thermofisher.com/evos)