

Zeiss AxioImager Microscope

Filters and Fluorescence Dyes (with Colibri 7 LED system)

Filter Number	Example Dyes	LED Excitation Wavelength	Beam Splitter	Emission Filter
20 Rhodamine	Rhodamine, TRITC, dsRed, CY3 Propidium Iodide, Alexa 555	Green (555nm)	FT 560	BP 575-640
38 GFP	GFP, FITC, Alexa 488 CY2, YFP	Blue (475 nm)	FT 495	BP 525/50
49 DAPI	DAPI, Hoechst, BV 421	Violet (385 nm)	FT 395	BP 445/50
50 CY5	CY5, Alexa 633 Alexa 647	Red (630 nm)	FT 660	BP 690/50
45 Texas Red	Texas Red, Alexa 568 Alexa594	Orange (590 nm)	FT 585	BP 630/75

Objektives

Magnification	Type	Phase	Scaling Factor (µm/pixel)	Camera	Pixels per Image (1x1 Binning)
1.25x NA 0.03	PL NeoFluar	--	2.48 µm/Pixel 5.77 µm/Pixel	512 color 506 mono	4248 x 3832 2752x2208
5x NA 0.16	PL NeoFluar	1	0.62 µm/Pixel 1.44 µm/Pixel	512 color 506 mono	4248 x 3832 2752x2208
10x (PH) NA 0.3	PL NeoFluar	1	0.31 µm/Pixel 0.72 µm/Pixel	512 color 506 mono	4248 x 3832 2752x2208
20x NA 0.8	PL ApoChromat	--	0.16 µm/Pixel 0.36 µm/Pixel	512 color 506 mono	4248 x 3832 2752x2208
40x (PH) NA 0.75	PL NeoFluar	2	0.0788 µm/Pixel 0.18 µm/Pixel	512 color 506 mono	4248 x 3832 2752x2208
63x NA 1.25	PL NeoFluar - Oil	--	0.049 µm/Pixel 0.11 µm/Pixel	512 color 506 mono	4248 x 3832 2752x2208
100x (PH) NA 1.30	PL NeoFluar - Oil	3	0.031 µm/Pixel 0.072 µm/Pixel	512 color 506 mono	4248 x 3832 2752x2208