

Zeiss Axioscan Z.1: Slide Scanner

This microscope is excellent for large-area imaging and large high content experiments, enabling you to scan 100 slides in brightfield, polarised light and 7 fluorescence channels.

Remember to **acknowledge** the facility in your publications! For example:

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Features

- LED excitation allows for high-speed imaging with minimal filter switching
- 2x High-end cameras for brightfield in colour and high-sensitivity monochrome for fluorescence.
- Extra narrow band emission filters and spectral unmixing for 7 colour imaging (e.g. Opal)
- Automatic focus mapping ensures that entire samples are captured in focus even at high magnification
- Z stack acquisition with extended depth of focus algorithms for thicker tissues or deconvolution for signal enhancement
- ZEN 3.8 Blue Software, including integrated image analysis
- 2x offline workstations including Intellesis machine learning segmentation module, colocalisation analysis and Third-Party Import

Objective Lenses

	Numerical Aperture (NA)	Immersion media	Correction	Working Distance (mm)	Cover glass thickness (mm)
5x	0.25	Dry	Fluar	12.5	
10x	0.45	Dry	Plan-apochromat	2	0.17
20x	0.8	Dry	Plan-apochromat	0.55	0.17
20x POL	0.45	Dry	N-Achroplan	0.63	0.17
40x	0.95	Dry	Plan-apochromat	0.25	0.17

Excitation and Emission

SS excitation	Excitation (nm)	Beamsplitter	Beamsplitter Cutoff	Emission Filter	Emission Range (nm)	Additional Emission Filter
385	370-400	PBS	405	PBP	425/30	
430	401-445	TBS	450	TBP	467/24	
475	450-488	PBS	493	PBP	514/31	532/10
555	540-570	PBS	575	PBP	592/25	
590	577-603	TBS	590	TBP	687/145	620/10
630	615-646	PBS	654	PBP	681/45	
735	715-755	PBS	761	PBP	785/38	

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