

Zeiss Axio Observer 7 HCS

Objective Lens

Magnification / NA	Immersion media	Lens type	Phase contrast	DIC	Working distance	Coverglass thickness	
5x/0.16 Ph1	Air	EC Plan-Neofluar	Ph1	X	18.5mm		
10X/0.3 Ph1	Air	EC Plan-Neofluar	Ph1	X	5.2mm		
20X/0.4 Corr Ph2	Air	c	Ph2	X	7.4-8.4mm	CG=0-1.5mm	
40X/0.6 Corr Ph2	Air	LD Plan-Neofluar	Ph2	X	2.5-3.3mm	CG=0-1.5mm	
63X/1.4 DIC	Oil	Plan-Apochromat	X	yes	0.19mm	0.17 mm	
20x/0.8 DIC	Air	Plan-Apochromat	X	yes	0.55mm	0.17 mm	
63X/1.3	Water/Silicone/Glycerine	LCI Plan-Neofluar	X	yes	0.15-0.19mm	0.13-0.21 mm	install per request

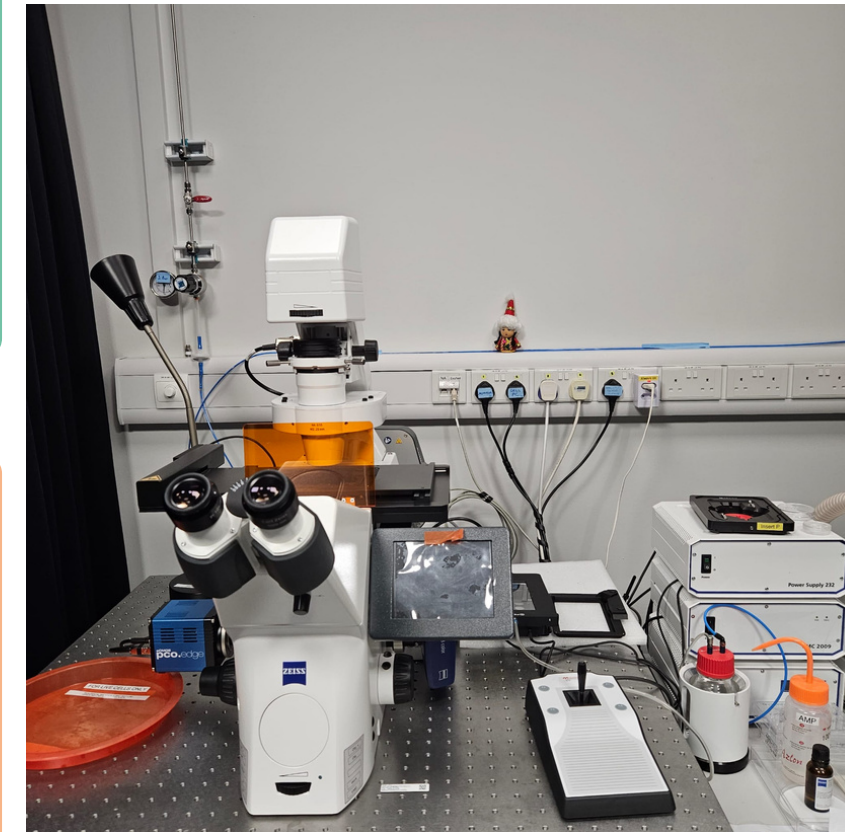
FL Filter Wheel

Channel	Excitation (single color LED, no filter)	Dichroic	Emission (filter wheel)
DAPI	385/30 nm	BS: 405 + 493 + 575 + 654 + 761	BP 425/30
GFP/FITC	469/38 nm		BP 514/30
DsRed/TRITC/Cy3 /Alexa555	555/30 nm		BP 592/25
Cy5/Alexa633/ Alexa647	631/33 nm		BP 681/45
Cy7/Alexa 750	735/40 nm		BP 788/38

Light sources

Transmitted / brightfield	VIS-LED
Widefield fluorescence	Colibri 7 (can choose from 8 different colors of excitation)

Detectors	Colour camera	Axiocam 208 color
	Monochrome camera	pco.edge 4.2 - scientific CMOS (sCMOS)
Microscope body	Microscope stand Axio Observer 7	
Auto-focus	Definite Focus 3 incl. nosepiece mot. ACR	
Sample formats	Frame K: Slide, Petri Dish (35mm & 60mm)	
	Frame K-X: Multi-well plates (124~133 x 83~88mm)	
	Frame ??: 4x slides	
	Insert P: Petri dish (35 & 60mm) & chambered glass (limited) Insert M: 6-, 12-, 24- & 96-well plate	
Incubator	Stage top incubation	37 deg C / 5% CO2
Stage	Scanning Stage 130x100 STEP	
Software	Zen 3.3 pro (blue)	



Functions

Brightfield, Phase Contrast (PH), Live cell imaging, High content