

Basic features of widefield microscopes at BIC

	Objectives			Camera	Light source	Climate control	Stage inserts	Software	Special features
	Magnification/NA	Working distance	Filed of view						
Leica DMI6000	5x/0.15dry 10x/3dry 20x/0.4dry Corr 40x/0.85dry Corr	13.7 mm 11 mm 7.5–6.2 mm 0.21 mm	2340x2400um 1170x1170um 585x585um 292x292um	512x512px, 8/16bit	LED365nm LED435nm LED470nm LED505nm LED530nm Metal Halide	Yes	Slides, Plates, Dish35– 100mm	LAS X	
Zeiss CellObserver	2.5x/0.12dry 10x/3dry 20x/0.4dry Corr 20x/0.4dry Corr 40x/0.6dry Corr 40x/0.6dry Corr	8.7 mm 5.2 mm 7.4–8.4 mm 7.4–8.4 mm 2.5–3.3 mm 2.5–3.3 mm	7140x4520um 1780x1125um 893x566um 893x566um 446x283um 446x283um	1920x1216px, 8/12/14bit	LED385nm LED469nm LED555nm LED631nm	Yes	Slides, Plates, Dish35– 100mm	ZenBlue	Dedicated objectives for thick bottom with phase contrast
Zeiss AxioExaminer.D1	20x/1.0water 63x/1.0water	1.8 mm 2.1 mm		512x512px, 8/16bit	XenonArc 340nm XenonArc 380nm XenonArc 430nm XenonArc 480nm XenonArc 530nm	No	Slides, Plates, Dish35– 100mm	MetaFluor	Upright design, Plate heater
Olympus IX73	2x/0.08dry 4x/0.13dry 10x/0.3dry 20x/0.45dry Corr 20x/0.8dry 40x/0.6dry Corr	6.2 mm 17 mm 9.5 mm 6.6–7.8 mm 0.6 mm 2.7–4.0mm	3600x2720um 2230x1680um 890x670um 710x540um 710x540um 360x270um	1376x1038px, 8/16bit	LEDwhite	No	Slides, Plates, Dish35– 100mm	CellSense	Colorimetric camera
Thermofisher EVOS.M7000	4x/0.13dry 10x/0.3dry 20x/0.45dry Corr 40x/0.6dry Corr	10.6 mm 7 mm 6.6–7.8 mm 2.7–4.0 mm	3136x2360um 1376x958um 516x387um 255x192um	2048x1536px mono: 16bit color: 8bit,	LEDcube 357nm LEDcube 470nm LEDcube 531nm LEDcube 628nm	No	Slides, Plates, Dish	M7000	Colorimetric camera
Sartorius Incucyte.S3 (high content live)	4x_dry 10x_dry 20x_dry		4330x3250um 1750x1300um 900x700um	1536x1152px (4x) 1408x1040px (10x/20x), 8bit TL/16bit Fluor	Dual color 440–480/ 565–605nm	Yes	Chambered slides, Plates, Dish	IncuCyte	Inside the cell incubator
Zeiss AxioScan.Z1 (high content slides)	5x/0.25dry 10x/45dry 20x/0.8dry 40x/0.95dry	12.5 mm 2.1 mm 0.55 mm 0.25 mm	1400x1050um 710x540um 350x260um 180x130um	mono: 2048x2048px, 16bit color: 1600x1200px, 14bit	LED385nm LED430nm LED475nm LED567nm LED630nm LED735nm	No	Slides	ZenBlue	Up to 100 slides simultaneously