

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/0.3dry 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/0.3dry 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 | 1.8 mm | 440x440um | 512x512px, 8/16bit | XenonArc 340nm XenonArc 380nm XenonArc 430nm XenonArc 480nm XenonArc 530nm | No | Slides, Plates, Dish35– 100mm | MetaFluor | Upright design, Plate heater, More objectives can be added on request |
| 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 Fluo | 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 |