

Basic features of confocal microscopes at BIC

	Objectives			Camera	Lasers	EPI Light source	Parallel imaging, channels	Climate control	Stage inserts	Software	Special features
	Magnification/NA	Working distance	Filed of view								
Leica Stellaris.5X (scanning)	5x/0.15dry 10x/0.4dry 20x/0.75dry 20x/0.75glycerol 40x/1.25glycerol Corr 63x/1.4oil	13.7 mm 2.56 mm 0.62 mm 0.66 mm 0.35 mm 0.14 mm	2320x2320um 1160x 1160um 582x582um 582x582um 291x291um 184x184um	8192x8192px, 8/12/16bit	405nm 448nm 485-790nm (tunable)	LEDwhite	up to 5	No	Slides, Dish35- 60mm	LAS X	Lightning Module, Lambda Scanning, TauSense
Leica Stellaris.5LIA (scanning)	5x/0.15dry 10x/0.3dry 20x/0.75dry 20x/0.7glycerol 63x/1.2water Corr 63x/1.4oil	13.7 mm 11 mm 0.62 mm 0.26 mm 0.3 mm 0.14 mm	2320x2320um 1160x 1160um 582x582um 582x582um 184x184um 184x184um	8192x8192px, 8/12/16bit	405nm 488nm 561nm 640nm	LEDwhite	up to 3	No	Slides, Dish35- 60mm	LAS X	Lightning Module, Lambda Scanning
Zeiss LSM980-Airy (scanning)	5x/0.17dry 10x/0.3dry 20x/0.8dry 40x/1.2water Corr 63x/1.4oil	18.5 mm 2.1 mm 0.55 mm 0.28 mm 0.19 mm	1697x1697um 848x848um 424x424um 212x212um 135x135um	8192x8192px (Airy- 4096x4096px) 8/16bit	405nm 445nm 488nm 561nm 639nm	LED385nm LED475nm LED555nm LED630nm	up to 11	Yes, w/o CO2	Slides, Plates, Dish35- 100mm	ZenBlue	AiryScan Module, Lambda Scanning, Online fingerprinting
Zeiss LSM900-Airy (scanning)	5x/0.16dry 10x/0.45dry 20x/0.8 dry 40x/1.2water Corr 63x/1.4oil	12.1 mm 2.1 mm 0.55 mm 0.29 mm 0.19 mm	1278x1278um 639x639um 320x320um 160x160um 101x101um	6144x6144px (Airy- 4096x4096px) 8/16bit	405nm 488nm 561nm 639nm	LED385nm LED475nm LED555nm LED630nm	up to 3	No	Slides, Plates, Dish35- 100mm	ZenBlue	AiryScan Module, Lambda Scanning, DIC
Zeiss LSM800-Airy (scanning)	5x/0.25dry 10x/0.3dry 20x/0.8dry 63x/1.2water Corr 63x/1.4oil	12.5 mm 5.2 mm 0.55 mm 0.28 mm 0.19 mm	1278x1278um 639x639um 320x320um 101x101um 101x101um	6144x6144px (Airy- 4096x4096px) 8/16bit	405nm 488nm 561nm 640nm	LEDwhite	up to 3	No	Slides, Plates, Dish35- 100mm	ZenBlue	AiryScan Module, Lambda Scanning, DIC
Zeiss LSM800 (scanning)	5x/0.25dry 10x/0.45dry 20x/0.8dry 40x/1.2water Corr 40x/1.3oil 63x/1.4oil	12.5 mm 2.0 mm 0.55 mm 0.28 mm 0.21 mm 0.11 mm	1278x1278um 639x639um 320x320um 160x160um 160x160um 64x64um	6144x6144px, 8/16bit	405nm 488nm 561nm 640nm	LEDwhite	1 or 2	No	Slides, Plates, Dish35- 100mm	ZenBlue	Lambda Scanning, DIC
Evident FV4000 (scanning)	2x/0.08 dry 10x/0.4 dry 20x/0.8 dry 30x/1.05 silicon 60x/1.3 silicon 60x/1.4 oil	6.2 mm 3.1 mm 0.6 mm 0.8 mm 0.3 mm 0.13 mm	6363x6364um 1272x1272um 636x636um 424x424um 212x212um 212x212um	Galvano- 4096x4096px, Resonant- 1024x1024px, 16bit	405nm 445nm 488nm 514nm 561nm 594nm 640nm 685nm 730nm 785nm	LED-LDP 367nm 407nm 436nm 470nm 550nm	up to 6	Yes, w CO2	Slides, Plates, Dish35- 100mm	FluoView	Resonance scanner
Olympus_FV1000 (scanning)	4x/0.16dry 10x/0.4dry 20x/0.75dry 40x/0.95dry Corr 60x 1.2water Corr 60x/1.35oil	13 mm 3.1 mm 0.6 mm 0.18 mm 0.28 mm 0.15 mm	6625 x6625um 2650x2650um 1325 x1325um 663x663um 442x442um 442x442um	2048x2048px (single channel: 4096x4096px) 12 bit	405nm 473nm 559nm 635nm	MetalHalide (white)	up to 3	No	Slides, Plates, Dish35- 100mm	FV10-ASW	Resonance scanner, DIC, Stage not automated
Nikon CrEST.V3 (spinning disk)	4x/0.2dry 10x/0.45dry 20x/0.8dry 20x/0.7dry Corr 25x1.05 sil Corr 60x/1.42oil	20 mm 4 mm 0.8 mm 2.3 mm 0.55 mm 0.11 mm	5311x5311um 2116x2116um 1056x1056um 1056x1056um 354x354um	2720x2720px, 8/12/16 bit	405nm 446nm 477nm 520nm 546nm 638nm 749nm	LED340nm LED380nm LED435nm LED470nm LED500nm LED550nm LED580nm LED635nm	1	Yes, w CO2	Slides, Plates, Dish35- 100mm	NIS Elements	Nikon Jobs for automatic imagin,; widefield imaging (with LEDs); DIC
MolDevices ImageXpress HCS.ai (high content plates, spinning disk)	4x/0.2 dry 10x/0.45 dry 20x/0.45 dry Corr 20x/0.95 water Corr 40x/0.60 dry Corr 40x/1.15 water Corr	20 mm 4 mm 8.2-6.9 mm 0.99-0.9 mm 3.6-2.8 mm 0.61-0.59 mm	3757x3757um 1491x1491um 766x766um 766x766um 379x379um 379x379um	2304x2304px, 16bit	401nm 488nm 514nm 545nm 577nm 637nm 748nm	N/A	1	Yes, w CO2	Plates only	MetaXpress Acquire + InCarta	Two spinning disks, Auto-immersion water objectives, Maginifier 1x /1,5x, InCarta AI anaysis, Targeted acquisition