

PARAMETER	BC296	BC297
Optical System	Infinite Optical System	Infinity Color Correction Optical System
Laser	405nm, 488nm, 561nm, 64 nm	405nm, 488nm, 561nm, 640nm
Detector	4-Channel PMT: 400 ~ 750nm	Multi Alkali PMT, QE ≥ 25% @500nm GaAsP PMT, QE ≥ 45% @500nm
Scan Unit	Maximum Pixel Size: 8192 x 8192 Scan Mode: Supports combined use of X, Y, Z, λ and T scanning functions	Pixel Size: 512 x 512 to 8192 x 8192 High speed optical scanning galvanometer
Pinhole	Electric stepless adjustment	35/45/55/65/85/105μm
Eyepiece	10X, adjustable diopter -5 ~ +5	High eyepoint wide field plan eyepiece PL10X/22mm, diopter adjustable, micrometer attachable
Viewing Head	Siedentopf Binocular viewing head, 10-40° inclined, Interpupillary 47 ~ 78mm	Binocular head 20-45° tilting, inverted image
BC296: Apochromatic Plan Objectives BC297: Infinity Plan Suprt Apochromatic Objectives	10X/NA=0.45, WD=4.0mm 20X/NA=0.75, WD=1.1mm 40X/NA=0.95, WD=0.21mm (Oil) 60X/NA=1.42, WD=0.25mm Option: 4X/NA=0.16, WD=17.0mm Option: (Wi) 20X/NA=0.95, WD=1.1mm Option: (Oil) 100X/NA=1.45, WD=0.13mm Option: (Oil) 100X/NA=1.49, WD=0.09 ~ 0.16mm	10X/NA=0.4, WD=3.1mm 20X/NA=0.8, WD=0.6mm 40X/NA=0.95, WD=0.18mm (Oil) 60X/NA=1.42, WD=0.17mm (Oil) 100X/NA=1.45, WD=0.13mm
Nosepiece	Motorized sextuple nosepiece with DIC expansion slot Option: Motorized sextuple nosepiece with AFS module	
Stage	Motorized control (Grating Type) Stage Size: 445mm x 300mm Travel Range: 130mm x 100mm Maximum Speed: 25 mm/s Positioning Accuracy: 0.1 μm Repeatability: 0.5 μm Repeatability: 0.5 μm Stage plate: Compatible with 35mm ~ 65mm culture dishes and slides Optional plate holder adapter available	Stage size: 350mm x 200mm Travel Range: 114mm x 75mm Maximum Speed: 50mm/s, with slide holder and Φ36 petri dish holder
Condenser	7-hole turret condenser with electric control NA=0.55, WD=26.7mm positions for phase contrast, Hoffmann phase contrast, DIC and ND filter	Electric seven-hole condenser, NA=0.55
Focusing System	Motorized Z-axis, travel distance 10mm Precision: 0.02μm Repeatability: 0.1μm 3-speed focusing knob: 2μm/revolution, 40μm/revolution, 200μm/revolution.	Low position coarse and fine coaxial electric focusing mechanism, range 10.5mm, precision: 0.01μm

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Illumination System	<p>Transmitted Kohler illumination, 3W LED Epi-Illumination: Widefield 4-band LED illumination.</p> <p>6-Position electric fluorescence turntable (standard for B, G, U).</p> <p>Motorized Fluorescence Shutter</p>	<p>10W LED transmitted illumination</p> <p>Multi-band LED light source module, 10W high-power LED</p> <p>Fluorescent illumination, 8-hold fluorescence rotating system, supporting up to 16 wells</p> <p>Fluorescent mercury lamp light source module, 100W DC mercury lamp</p>
Camera	Specialized camera	5MP/20MP camera
Software	<p>Advanced imaging processing and management options</p> <p>Features confocal scanning capabilities, multidimensional imaging and pre-set channel functions</p> <p>Supports both wide-field and confocal imaging modes</p> <p>Comprehensive hardware control modules, built-in image filtering tools and supports export to various image formats</p>	<p>Image acquisition, processing and analysis</p> <p>Features large image stitching, 3D reconstruction and cell counting</p>
Other Options:		
Expandable Functions	<p>Live Cell Culturing System</p> <p>Super-Resolution Structured Illumination Microscopy (SR-SIM) Module</p> <p>Dual-Layer Fluorescence Heightened Accessor</p>	
DIC Plate	10X, 20X, 40X, 60X, 100X objective Inserts, compatible with the nosepiece turret	