

BE510FP Infinite Fluorescent Microscope for Bright Field, Phase Contrast, Dark Field & Fluorescent Observations



Specifications

- Optical system: Infinity Corrected Optical System
- Viewing head: Seidentopf trinocular viewing head, inclined at 30°, interpupillary 47-78mm, splitting ratio of eyepiece/camera: 50: 50
- Nosepiece: Backward Quintuple Nosepiece
- Eyepiece: Wide field eyepiece WF10x/22mm, diopter adjustment +/-5, tube diameter: Φ30mm
- Objectives:
 - Infinite Plan Achromatic Objective 4x, NA 0.1, WD: 20.6mm
 - Infinite Plan Achromatic Objective 10x, NA 0.25, WD: 18mm
 - Infinite Plan Achromatic Objective 40x, NA 0.65, WD: 1.5mm
 - Infinite Plan Achromatic Objective 100x, NA 1.25, spring loaded, oil, WD: 0.13mm
- Stage: Synchronous belt platform stage 235mmx150mm, XY Moving Range 78mmx54mm, Metal clips for glass slides, hard oxidized platform surface
- Focusing: Low-hand position coarse and fine coaxial focusing mechanism, Coarse Stroke 37.7mm per Rotation, Fine division 0.002mm, Fine Stroke 0.2mm per Rotation, Focal Distance 30mm, With adjusting elastic device and upper limit, with platform up and down adjustment mechanism, stage XY graduation step 0.1mm
- Condenser: Standard Abbe condenser 1.25 NA with slot for darkfield and phase contrast sliders, with objective position scales
- Phase contrast kit:
 - Phase contrast slider mounted with phase contrast ring, can be placed in the condenser for phase contrast objectives 10x and 540x or 20x and 5100x
 - Infinite Phase Contrast Objective 10x
 - Infinite Phase Contrast Objective 20x
 - Infinite Phase Contrast Objective 40x
 - Infinite Phase Contrast Objective 100x
 - Phase contrast telescope
 - Green filter
- Dark field kit: Dark field limiter in the slide for objectives 10x, 20x and 540x can also be used with magnification indication
- Illumination: 3W LED Light with Köhler illumination with field diaphragm, brightness adjustable, Matrix lens for uniform field illumination.
- Fluorescent attachment:
 - FM-LED LED Epi-fluorescent Attachment, supplied with 3W Epi-fluorescent illumination device including 2 channels (1 channel for fluorescent cubes and 1-channel for brightfield observation) and a UV protection shield; filter groups.
 - Equipped with 1 fluorescent filter set for Fluorescence attachment with 455 nm LED for detection of tuberculosis with Auramine-O fluorochrome.
- Supplied with: Dust cover, spare fuse, green filter, manual, immersion oil
- Power: 100-240V, 50/60Hz
- More information:
 - All optics are treated against fungus and have an anti-reflective coating for maximum light transmission
 - Adjustable stop on the stand to prevent damage to the sample and objectives
 - Coarse focus adjustments are equipped with friction control
 - Designed for 2 slides
- Warranty: 24 months

Optional Accessories

Cat. Number	Descriptions
M11261001	Seidentopf Binocular Head, inclined at 30°, Interpupillary 47-78mm, 360° Rotation
M11261002	Seidentopf Trinocular Viewing Head, inclined at 30°, Interpupillary 47-78mm, Splitting ratio 5:5
M11261003	Binocular Switching Viewing Head
M11261004	Trinocular Switching Viewing Head
M11261005	Wireless Digital Head with Built-in 5 Million Pixels
M11261006	Trinocular head with 9.7" LED screen, integrated with digital camera 5M pixels, Android OS, HDMI, USB, SD Card, Wi-Fi, Mouse Control
M11261007	Ergonomic 5 to 35° Inclination Trinocular Viewing Head
M11261008	Photo attachment with standard Ø 23.2 mm tube for digital camera use
M11261009	EWF10x/22 mm eyepiece
M11261010	WF15x/16 mm eyepiece

Cat. Number	Descriptions
M11261037	NIS60 Series Infinite Phase Contrast Objective 40x
M11261038	NIS60 Series Infinite Phase Contrast Objective 100x
M11261039	5-LED Illumination replacement unit for BE510
M11261040	3W-LED Illumination replacement unit for BE520
M11261041	Köhler Attachment
M11261042	Swing-out condenser N.A.D. 9/0.25 (needed to work with 2x objective)
M11261043	Dark Field Plate (One annulus is for darkfield observation, and one is for brightfield observation)
M11261044	Infinity plan objective 100x used for oil dark field condenser
M11261045	Infinity plan objective 100x with iris diaphragm for oil dark field condenser
M11261046	10x-40x phase contrast slider

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Cat. Number	Descriptions
M11261011	WF20x/12 mm eyepiece
M11261012	Grid for eyepiece
M11261013	Reticle for eyepiece
M11261014	Coralline for eyepiece
M11261015	Backward Quintuple Nosepiece (Non-coding)
M11261016	Backward Quintuple Nosepiece (Coding)
M11261017	NIS45 Infinite Plan Achromatic Objective 4x, NA 0.1, WD: 20.6mm
M11261018	NIS45 Infinite Plan Achromatic Objective 10x, NA 0.25, WD: 18mm
M11261019	NIS45 Infinite Plan Achromatic Objective 20x, NA 0.40, WD: 12mm
M11261020	NIS45 Infinite Plan Achromatic Objective 40x, NA 0.65, WD: 1.5mm
M11261021	NIS45 Infinite Plan Achromatic Objective 60x, NA 0.80, WD: 0.14mm
M11261022	NIS45 Infinite Plan Achromatic Objective 100x, NA 1.25, WD: 0.13mm, spring loaded, oil
M11261023	NIS45 Infinite Plan Achromatic Objective 100x, NA 1.1, WD: 0.20mm, spring loaded, water
M11261024	NIS60 Infinite Plan Achromatic Objective 4x, NA 0.1, WD: 30mm
M11261025	NIS60 Infinite Plan Achromatic Objective 10x, NA 0.25, WD: 17.5mm
M11261026	NIS60 Infinite Plan Achromatic Objective 20x, NA 0.40, WD: 12mm
M11261027	NIS60 Infinite Plan Achromatic Objective 40x, NA 0.65, WD: 1.5mm
M11261028	NIS60 Infinite Plan Achromatic Objective 60x, NA 0.80, WD: 0.14mm
M11261029	NIS60 Infinite Plan Achromatic Objective 100x, NA 1.25, WD: 0.13mm, spring loaded, oil
M11261030	NIS60 Infinite Plan Achromatic Objective 100x, NA 1.1, WD: 0.20mm, spring loaded, water
M11261031	NIS45 Series Infinite Phase Contrast Objective 10x
M11261032	NIS45 Series Infinite Phase Contrast Objective 20x
M11261033	NIS45 Series Infinite Phase Contrast Objective 40x
M11261034	NIS45 Series Infinite Phase Contrast Objective 100x
M11261035	NIS60 Series Infinite Phase Contrast Objective 10x
M11261036	NIS60 Series Infinite Phase Contrast Objective 20x

Cat. Number	Descriptions
M11261047	100x phase contrast slider
M11261048	Centering Telescope
M11261049	Green Filter
M11261050	Simple Polarization Set: Polarizer & Analyzer
M11261051	Synchronous belt stage 230x150mm, moving range 78x54mm
M11261052	Synchronous belt stage 230x150mm, moving range 78x54mm (Wear-resistant Type)
M11261053	Temperature Control System: SW LED Illumination, Temperature Controlling Range: Room Temperature to 50° C
M11261054	"FE-2" LED Epi-fluorescent Attachment, supplied with Epi-fluorescent illumination device including 3-position slider (2-position for fluorescence cubes and 1-position for brightfield observation) and a UV protection shield; equipped with standard fluorescence filter set for Blue Excitation EX460-490 (BP) DM505 EM515 (LP)
M11261055	Blue Cube: Excitation: BP460-490, Dichroic Mirror DM: 505, Barrier Filter: BA515
M11261056	Green Cube: Excitation: BP510-550, Dichroic Mirror DM: 570, Barrier Filter: BA590
M11261057	VIOLET Cube: Excitation: BP380-415, Dichroic Mirror DM: 460, Barrier Filter: BA475
M11261058	ULTRAVIOLET Cube: Excitation: BP320-380, Dichroic Mirror DM: 420, Barrier Filter: BA435
M11261059	NIS60 Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 4x/0.13, working distance 16.5 mm
M11261060	NIS60 Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 10x/0.30, working distance 8.1 mm
M11261061	NIS60 Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 20x/0.50, working distance 2.1 mm
M11261062	NIS60 Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 40x/0.75, working distance 0.7 mm
M11261063	NIS60 Plan Semi-Apochromatic infinity corrected objective, PlanF 5-Apo 100x/1.30, oil immersion, W.D.: 0.15 mm
M11261064	1X C mount
M11261065	0.5X C mount
M11261066	Universal SLR adapter with built-in 2x lens for standard 23.2mm tube (work with T2 adapter)
M11261067	T2 ring for Nikon D SLR digital camera
M11261068	T2 ring for Canon EOS SLR digital camera
M11261069	App software for BE520 series' management on smartphone
***	Digital Camera (Please refer to our digital camera brochure)