



BK-POL Series Polarizing Microscope

Also named mineralogical microscope, is necessary for researching double refraction sample, which is widely used in geology, mineral, chemical industry, medical, drug, criminal investigation fields etc.



BK-POL



BK-POLF



BK-POLR



- Professional binocular head can keep the cross in the right-hand eyepiece always same when the eyepiece tubes turned.

- Analyzer unit : 360° rotatable analyzer with division, can be locked and moved out of the light path.
- Bertrand lens, Built In, focus adjustable



- Centering nosepiece, non-stress infinity plan objective.
- Rotatable 360° stage , division 1°, vernier division 6', adjustable center which can be locked.
- Polarizing unit: rotatable 360°, scaled, can be locked.

- Attached polarizing mechanical stage: professional design for laboratory's user to avoid objective hitting.
- Compensator: Quartz wedge, First class red slip, $\lambda/4$ slip.
- Swing-out condenser, Swing the lens in to get excellent image when using high power objective to make observation.

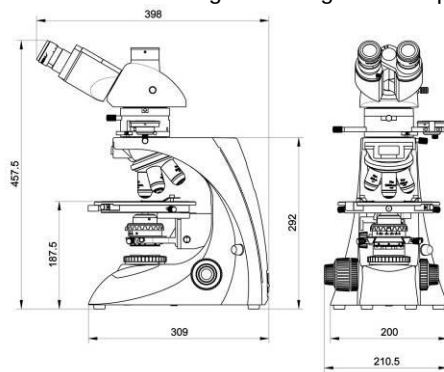


Objective Specification: ("●" is standard outfits, "○" is optional accessories.)

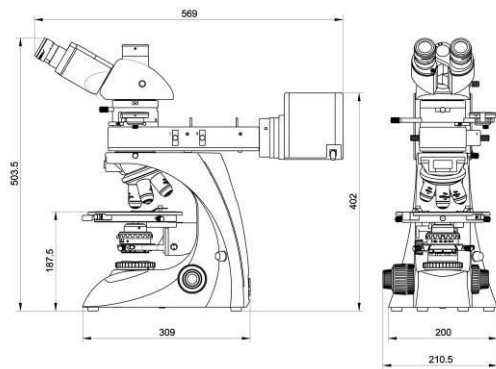
"T" means transmitting "R" means reflecting "T&R" means transmitting and reflecting

	Objective	N.A.	Working distance (mm)	BK-POL (T)	BK-POLF (R)	BK-POLR (T&R)
Non-stress Infinity Plan Objective (Transmitting)	PLAN 4X	0.10	12.10	●		●
	PLAN 10X	0.25	4.64	●		●
	PLAN 20X (S)	0.40	2.41	●		●
	PLAN 40X (S)	0.66	0.65	●		●
	PLAN 60X (S)	0.80	0.33	○		○
	PLAN 100X (S, Oil)	1.25	0.12	○		○
Non-stress LWD Infinity Plan Objective (Reflecting)	LMPlan FL 5× (Semi Apochromatic Objective)	0.15	21.00		●	○
	LMPlan FL 10× (Semi Apochromatic Objective)	0.30	20.00		●	○
	LMPlan FL 20× (Semi Apochromatic Objective)	0.40	15.00		●	○
	LMPlan FL 50× (Semi Apochromatic Objective)	0.55	10.00		●	●
	LMPlan 100× (Dry) (Semi Apochromatic Objective)	0.85	3.00		○	○

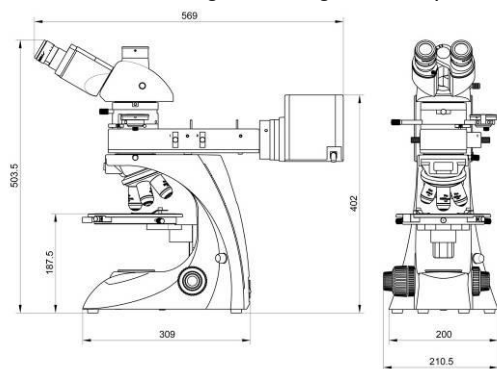
BK-POL Transmitting Polarizing Microscope Size(mm)



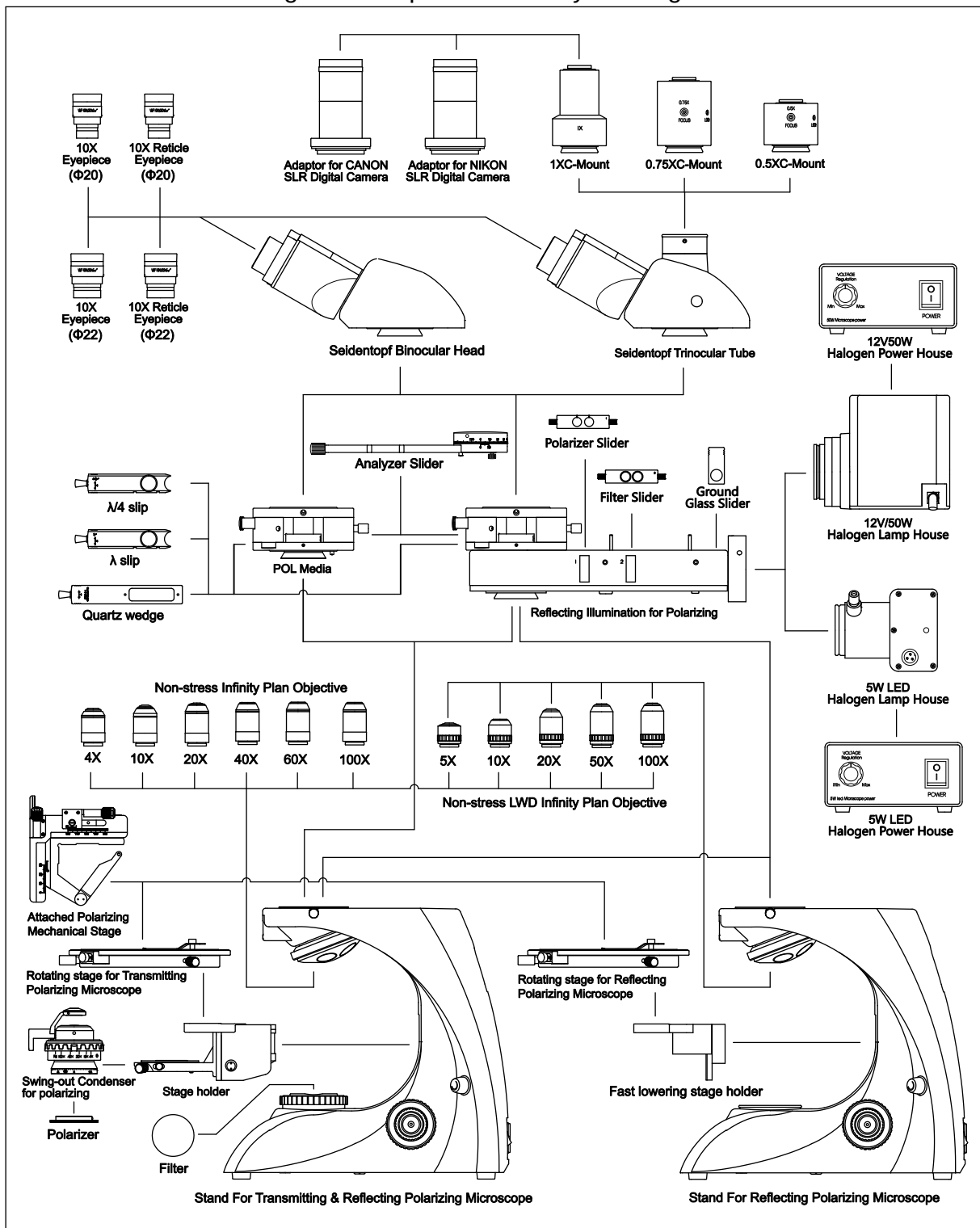
BK-POL R Transmitting & Reflecting Polarizing Microscope Size(mm)



BK-POL F Reflecting Polarizing Microscope Size(mm)



BK-POL Series Polarizing Microscope General Layout Diagram



BK-POL Series Polarizing Microscope Outfits

Item	Specification	BK-POL	BK-POLF	BK-POLR
Eyepiece	WF10X / 22mm (adjustable)	●		
	WF10X / 22mm (adjustable, reticule 0.1mm)	●		
	WF10X / 20mm (adjustable)		●	●
	WF10X / 20mm (adjustable, reticule 0.1mm)		●	●
Professional Polarizing Seidentopf Binocular Head	Inclined 30°, rotatable 360°, Interpupillary distance: 48mm ~ 76mm	●	●	●
Professional Polarizing Seidentopf Trinocular Head	Inclined 30°, Rotatable 360°, Interpupillary Distance : 48mm ~ 76mm, Light distribution (both) 100: 0 (100% for eyepiece) 80:20 (80% for trinocular head and 20% for eyepiece)	○	○	○
Non-stress Infinity Plan Objective (Transmitting)	PLAN 4X / 0.10 W.D.= 12.1mm	●		●
	PLAN 10X / 0.25 W.D.= 4.64mm	●		●
	PLAN 20X / 0.40(S) W.D.=2.41mm	●		●
	PLAN 40X / 0.66(S) W.D.=0.65mm	●		●
	PLAN 60X / 0.80(S) W.D.=0.33mm	○		
	PLAN 100X / 1.25(S, Oil) W.D.=0.12mm	○		
Non-stress LWD Infinity Plan Objective (Reflecting)	LMPlan FL 5×/0.15 (Semi Apochromatic Objective) W.D.=21.00mm		●	○
	LMPlan FL 10×/0.30 (Semi Apochromatic Objective) W.D.= 20.00mm		●	○
	LMPlan FL 20×/0.40 (Semi Apochromatic Objective) W.D.= 15.00mm		●	○
	LMPlan FL 50×/0.55 (Semi Apochromatic Objective) W.D.= 10.00mm		●	●
	LMPlan 100×/0.85 (Dry) (Semi Apochromatic Objective) W.D.= 3.00mm		○	○
Nosepiece	Quintuple (center adjustable)	●	●	●
POL Media	Analyzer rotatable 360°, module type, can be locked	●	●	●
	Bertrand lens, Built In, focus adjustable	●	●	●
Slip	λslip (First Class Red)	●	●	●
	λ/4 slip	●	●	●
	Quartz wedge (I~ IV)	●	●	●
Revolving Round Stage	Rotatable 360°, center adjustable, can be locked. division 1°, vernier division 6'. Diameter Φ174mm	●	●	●
Swing-out Condenser	N.A.0.9/0.13, polarizing unit (with scale, rotatable 360°,can be locked)	●		●
Coaxial Coarse and Fine Focusing Unit	Coarse stroke 25mm, Fine stroke per rotation:0.2mm, fine division 2 μm	●	●	●
Transmitting/ Reflecting Illumination	5WLED lamp (Input voltage:100V~240V)	●	●	●
Transmitting Illumination	6V/30W Halogen lamp (Input voltage:100V~240V)	○		
Reflecting Illumination	12V/50W halogen lamp (Input voltage:100V~240V)		○	○
Filter	Blue/ Amber/ Green/ Neutral	○	○	○
Attached Polarizing Mechanical Stage		○	○	○
C-Mount	1X /0.75 X /0.5 X (Focus adjustable)	○	○	○

Note: "●" In Table Is Standard outfits, "○" Is Optional Accessories.

Packaging Parameters	Packing Size	Gross Weight	Net Weight
BK-POL	520mm×470mm×285mm	12.5 kgs	10 kgs
BK-POL R	520mm×470mm×430mm	16 kgs	12.5 kgs
BK-POL F	520mm×470mm×430mm	15 kgs	11.5 kgs