



AE-PM300 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.



AE-PM300



AE-PM301



AE-PM302



AE-PM300TR



AE-PM301TR



AE-PM302TR



**AE-PM302
(LED version)**



**AE-PM302TR
(LED version)**



**AE-PM301
(LED version)**



**AE-PM301TR
(LED version)**



- 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.



- POL-YDCLK 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.

- POL-YDC Attached polarizing mechanical stage

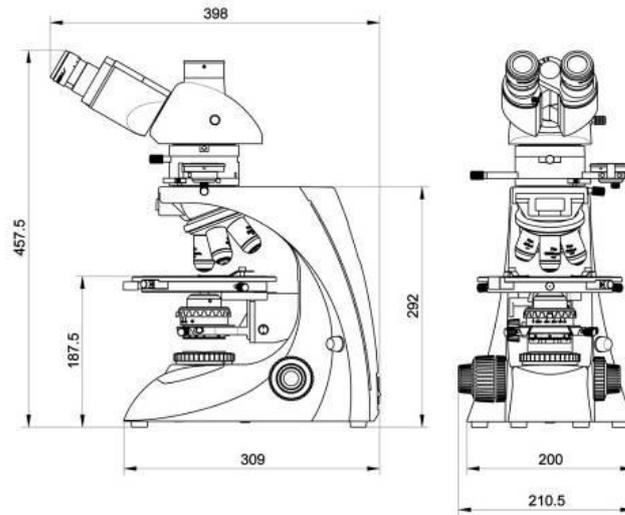


Objective Specification: ("●" is standard outfits, "○" is optional accessories.)

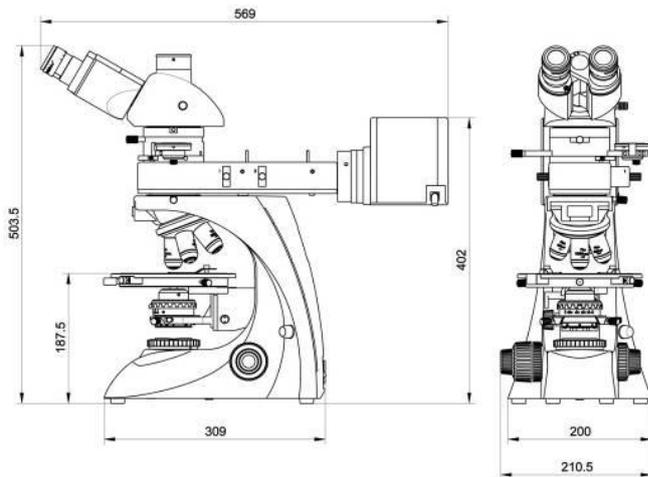
"T" means transmitting "R" means reflecting "T&R " means transmitting and reflecting

	Objective	N.A.	Working distance (mm)	AE-PM300 (T)	AE-PM301 (R)	AE-PM302 (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)	0.75	4.25		●	●
	LMPlan 100× (Dry) (Semi Apochromatic Objective)	0.85	3.00		○	○

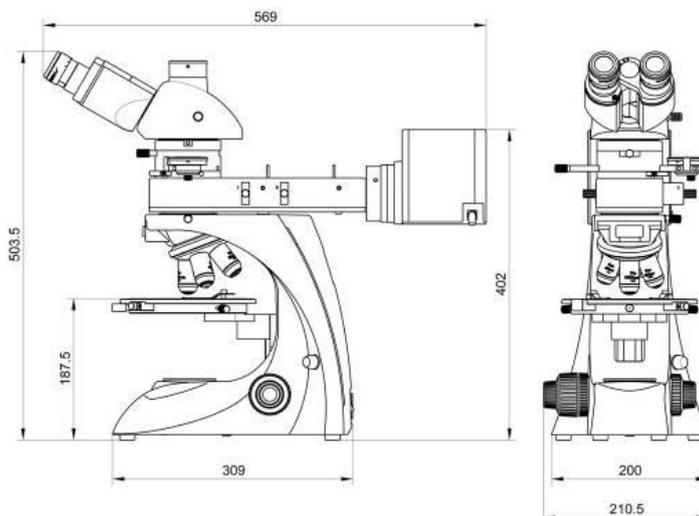
AE-PM300 Transmitting Polarizing Microscope Size(mm)



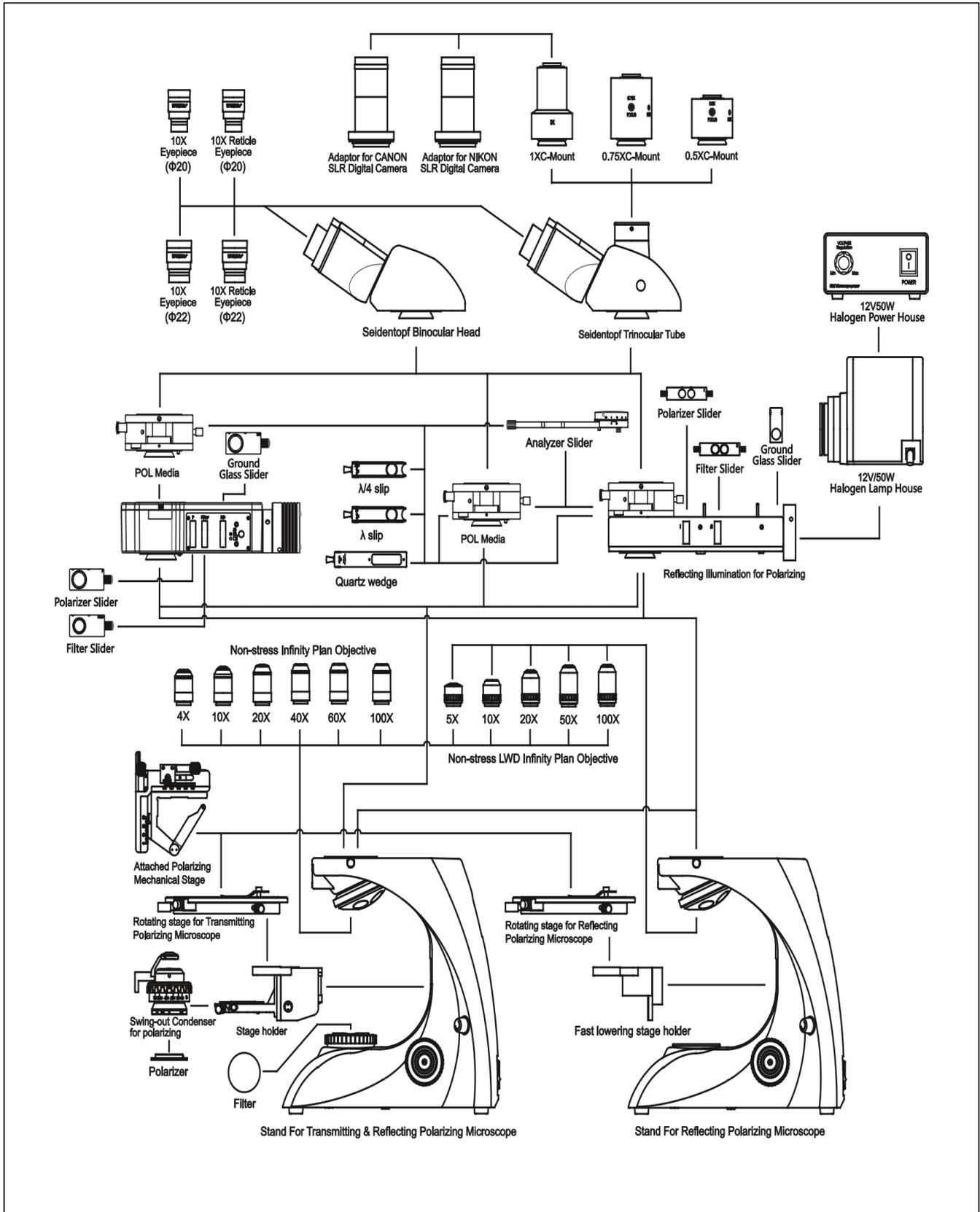
AE-PM302 Transmitting & Reflecting Polarizing Microscope Size(mm)



AE-PM301 Reflecting Polarizing Microscope Size(mm)



AE-PM Series Polarizing Microscope General Layout Diagram



AE-PM Series Polarizing Microscope Outfits

Item	Specification	AE-PM300	AE-PM301	AE-PM302
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 camera port 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 Semi Apochromatic Plan Objective (Reflecting)	LMPlan FL 5×/0.15 W.D.=21.00mm		●	○
	LMPlan FL 10×/0.30 W.D.= 20.00mm		●	○
	LMPlan FL 20×/0.40 W.D.= 15.00mm		●	○
	LMPlan FL 50×/0.75 W.D.= 4.25mm		●	●
	LMPlan 100×/0.85 (Dry) 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 DC input(Universal voltage:100V~240V)	●	●	●
Transmitting Illumination	12V/30W Halogen lamp(Universal voltage:100V~240V)	○		○
Reflecting Illumination	12V/50W halogen lamp(Universal voltage:100V~240V)		○	○
Filter(Φ45)	Blue/ Amber/ Green/ Neutral	○	○	○
Attached Polarizing Mechanical Stage	POL-YDC/POL-YDCLK	○	○	○
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
AE-PM300	520mm×470mm×285mm	12.5 kgs	10 kgs
AE-PM301	520mm×470mm×450mm	15.5 kgs	13 kgs
AE-PM302	520mm×470mm×450mm	15 kgs	11.5 kgs