# XJL-302/XJL-302BD



**XJL-302** upright metallurgical microscope is suitable to observe surfaces of the opaque object. It is equipped excellent UIS optical system and modularization function design so that update system expediently and achieved polarization, darkfield observation. Compact and steady main frame body is the embodiment for the shock resistance. The ideal ergonomic design is adopted in this unit and has the easier operation and wider space. This is the ideal optical instrument for micro observation in metallographic structure and surface morphology. It is suitable for research in metallography, mineralogy, precision engineering, etc.

#### Features

▲ With long working distance plan achromatic objectives (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field

▲ With large move range mechanical stages, moving range:8"X8"(204mmX204mm)

• Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing:  $0.8\mu$ m

▲ 6V 30W halogen lamp, adjustable brightness

▲ Trinocular, can switch to normally/polarize observation, brightfield/darkfield observation. can send 100% of light to the binocular eyepieces or to the top port



Mechanical Stage The large-mobile range mechanical stage is adapted to observation big size specimen or quick check. size: 280mmX270mm moving range: 204mmX204mm.

#### Observation system

The gemel mode trinocular is inclined 30 degree. The operator cervix and shoulder are released from tired in period of time keeping bow or head-u.p. The eyepiece field of view number is  $\Phi$ 22mm and eyepatch can be added.





**Epi- illumination system** Integrated field diaphragm, aperture diaphragm and (Y, B, G, frosted glass) switching device. Push-pull analyzer and polarizer

XJL-302:6V30W halogen lamp , brightness adjustable.

XJL-302BD:12V50W halogen lamp, brightness adjustable.

Dark Field Observation(for XJL-302BD) Equip high quality bright and dark field objectivesand dark field illumination device. Avoid the stray light of illumination system and improve the image quality in the dark field.



Dark field objectives

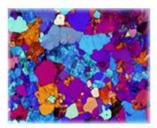


## Digital camera photography:



Dark type observe

## Bright type observe



Polarized observe

### Specification

#### • Standard Configuration

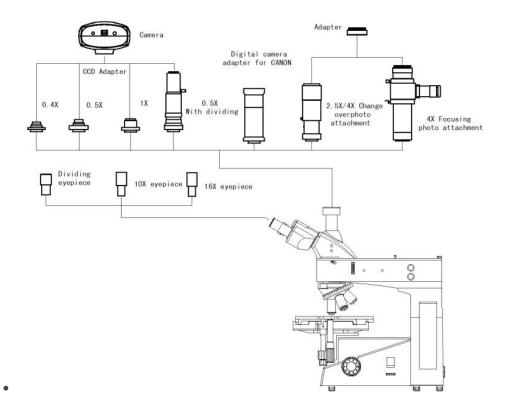
Specification							
Eyepiece	Wide field WF10X(field number: $\Phi$ 22mm)						
Infinity plan achromatic objective	XJL-302 £"Equipped with bright field objectives£©		PL L5X/0.12 (Work distance) : 26.1 mm				
			PL L10X/0.25 (Work distance) : 20.2 mm				
			PL L20X/0.40 (Work distance) : 8.80 mm				
			PL L50X/0.70 (Work distance) : 3.68 mm				
			PL L80X/0.80 (Work distance) : 1.25 mm				
	XJL-302BD £ <sup></sup> Equipped with bright & darkfield objectives£©		PL L5X/0.12 BD (Work distance) : 8.05mm				
			PL L10X/0.25 BD (Work distance) : 7.86mm				
			PL L20X/0.40 BD (Work distance) : 7.23mm				
			PL L50X/0.70 BD (Work distance) : 1.75mm				
			PL L80X/0.80 BD (Work distance) : 1.25 mm				
Eyepieces tube	Trinocula	rinocular inclined 30°, can be shot in 100% light flux.					
Epi-	XJL-302	6V30W1	halogen and brightness enable control				
illumination	XJL-	12V50W halogen and brightness enable control					
system	302BD						

	Integrated field diaphragm, aperture diaphragm and (Y,B,G, ground glass) switching device. Push-pull type analyzer and polarizer.				
Focus system	Coaxial coarse/fine focus system, with tension adjustable and limit stopper,				
	minimum division of fine focusing: 0.7µm.				
Nosepiece	Quintuple (Backward ball bearing inner locating)				
Stage	Mechanical stage£¬overall size : 280mmX270mm£¬moving range:				
	204mmX204mm				

## **Optional accessories**

Name	Sort/Technique parameter			
Objective	Dividing eyepiece(field number:Φ22mm) 0.10mm/Div			
Objective	PL L40X/0.60 Work distance:3.98mm	Equipped	2260140	
	PL L60X/0.70 Work distance:2.08mm with bright		2260360	
	PL L100X/0.85 Work distance:0.4mm field objectives		2260111	
	PL L40X/0.60 BD Work distance:3.0mm	Equipped	2120140	
	PL L60X/0.70 BDWork distance:1.65mm	with bright &	2120160	
	PL L100X/0.85 BDWork distance:0.4mm	dark field objectives	2120111	
Stage	Mechanical stage, overall size : 250mmX230mm Move			
	range:154mmX154mm			
	0.5X			
CCD Adapter	1X			
	0.5X with dividing 0.1mm/Div			
	DV-1 Video output£"380/520 TV line£© USB output £"0.42			
Camera	M pixel£©			
	DV-2 With USB output £"1.3M/3.0M/5.0M/10.0M pixel£©			
	DV-3 With video output£"380/520 TV line£©			
Digital camera adapter	CANON(A570,A610,A620,A630,A640,A650,EF) NIKON( F)			

## Diagram



Dimensions

