XJL-20/20BD

- **XJL-20/20BD** Inverted metallurgical microscope 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 an 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.
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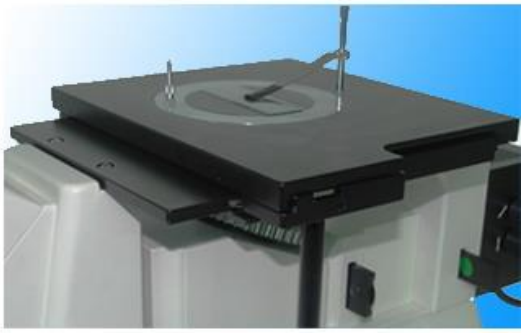
  Observation system

  The gemel mode binocular is inclined 45 degree. The operator cervix and shoulder are released from tired in period of time keeping bow or head-up.

  The eyepiece field of view number is Φ22mm and eyepatch can be added。
- **Mechanical Stage**

  The circular chromeplate substage is located in the center of mechanical stage so that enable rotate the specimen in the polarization observation. The abnormity observation window is suit for different size specimen.

Illumination System

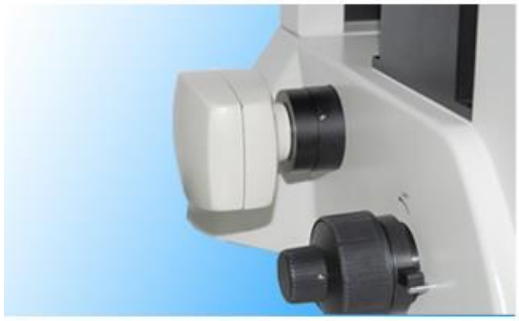
Integrated illumination can make up the difference of halogens by adjusting the spacial position. The illumination mode is “Kohler illuminatio” and the adjustment of field and aperture diaphragm is achieved by turning the control plate, the adjustment mode is smooth and comfort.

Fully taken into account the cooling effect of illumination system so that the surface temperature of lamp house is lower, the operation is safer.

Simpler and quicker way to replace the bulb without any tools。

Dark Field Observation(for XJL-20BD)

Equip high quality bright and dark field objectives and dark field illumination device. Avoid the stray light of illumination system and improve the image quality in the dark field.

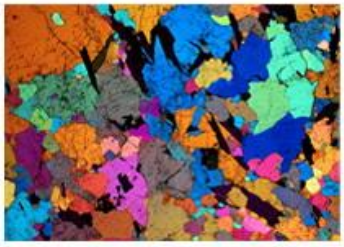


Photography Unit

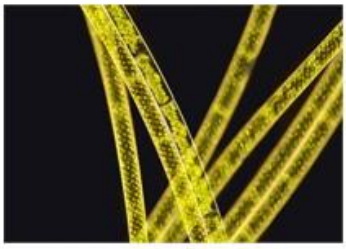
The photographic observation output is seting up on the back of main body frame, so that the accessories of camera don’t cause interference to eyepiece observation.

Microphotography in 100% light flux, suits for low illuminance microphotography.

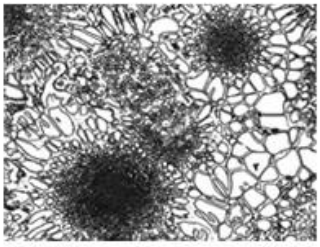
Digital camera photography:



Polarized observe



Dark type observe



Bright type observe

Specification

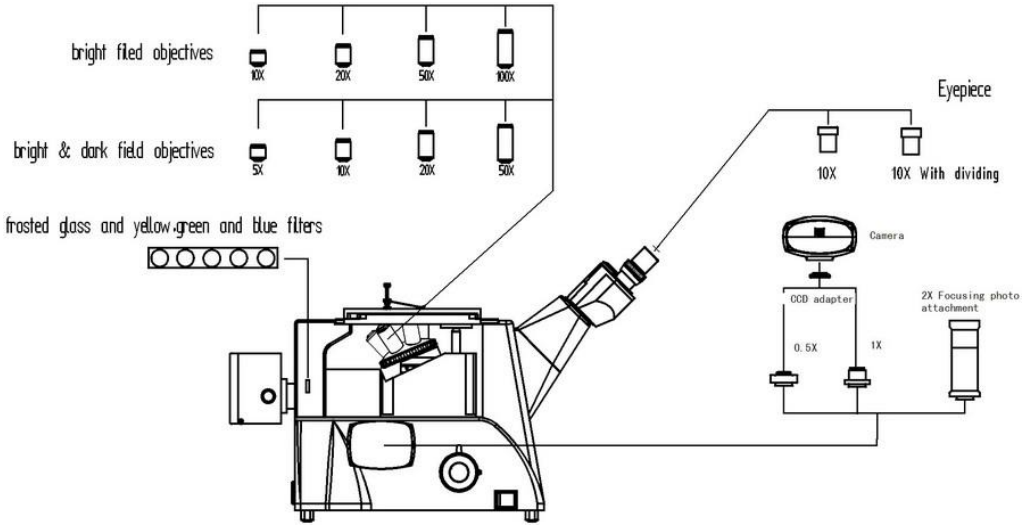
Specification		
Eyepiece	Wide field WF10X(field number: Φ22mm)	
Objective	XJL-20 Equipped with bright field objectives	PL L10X/0.25 (Work distance)：5 mm
		PL L20X/0.40 (Work distance)：8.80 mm
		PL L50X/0.70 (Work distance)：3.68 mm
		PL L100X/0.85（Dry） (Work distance)：0.40 mm
	XJL-20BD Equipped with bright & darkfield objectives	PL L5X/0.12 BD (Work distance)：8.05mm
		PL L10X/0.25 BD (Work distance)：7.86 mm
		PL L20X/0.40 BD (Work distance)：7.23mm
		PL L50X/0.70 BD (Work distance)：2.50mm
Eyepiece tube	Inclination angle is 45˚ and interpupillary distance is 53~75mm.	
Focus system	Coaxial coarse/fine focus, with tension adjustable, minimum division of fine focusing, is 2μm.	
Nosepiece	Quintuple (Backward ball bearing inner locating)	
Stage	Mechanical stage overall size: 242mmX200mm and moving range: 30mmX30mm.	
	Rotundity and rotatable stage size: maximal measurement is Φ130mm and minimal clear aperture is less then Φ20mm.	
Illumination system	6V30W halogen and brightness enable control., use in XJL-20	
	12V50W halogen and brightness enable control., use in XJL-20BD	
	Integrated field diaphragm, the aperture diaphragm, and puller type polarizer.	
	Equipped with frosted glass and yellow, green and blue filters	

Optional accessories

Name	Sort/Technique parameter		NO.
Eyepiece	Dividing eyepiece(Φ22mm)		1122010
Objective	PL L5X/0.12 (Work distance)：26.1 mm	Equipped with bright field objectives	2260105
	PL L40X/0.60 (Work distance)：3.98 mm		2260140
	PL L60X/0.70 (Work distance)：2.08mm		2260360
	PL L80X/0.80 (Work distance)：1.28 mm		2260180
	PL L40X/0.60 BD (Work distance)：3.00 mm	Equipped with bright & dark field objectives	2120140
	PL L60X/0.7 BD (Work distance)：1.65mm		2120160
	PL L80X/0.80 BD (Work distance)：0.80mm		2120180
	PL L100X/0.85 BD (Work distance)：0.4 mm		2120111
CCD Adapter	0.5X		812004
	1X		812002
	0.5X with dividing 0.1mm/Div		812003
Camera	DV-1 Video output 380/520 TV line USB output 0.42 M pixel		800001

	DV-2 With USB output 1.3M,2.0M,3.0M pixel	800003
	DV-3 With video output 380/520 TV line	800005
Digital camera adapter	CANON(EF) NIKON(F)	820001

Diagram

- 

Dimensions

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