

MJ43 Research-level Metallurgical Microscope



MJ43 is a research level metallurgical microscope with reflected lighting and transmitted lighting. Multi-function lighting attachment and broad-spectrum LED light source allows the microscope expand to reflected fluorescence function. The microscope body and structure is equivalent to Olympus BX43 optimized optical performance, offering various observation method possibility of dark field and DIC. All features give the microscope system ability to achieve composite micro observation of semi-conductor, FPD, electronic board, precision metal parts, physical materials and related industry area. It's an ideal instrument for university laboratory, education and scientific research purpose.

Features:

- *Equivalent quality of Olympus BX43 microscope body.
- *Flexible expand to observation method of epi-fluorescence, dark field and DIC.
- *Broad-spectrum LED light source is high efficiency and environment friendly.
- *Semi-apochromatic metallurgical objectives are clear and bright to view metal and no coverglass specimen.
- *Turret accommodates maximum sextuple filter block cubes allows to add filter cubes by needs.
- *Transparent plate is convenience to hold powder specimen.

Item	Specification		
Microscope frame	Optical system	Universal Infinity-corrected optical system	
	Structure	Original from international famous brand microscope	
Observation	Hinged type trinocular observation tube with 30° inclination		
	Wide field eyepiece 10X/22mm, high eye-point, interpupillary distance 53~75mm		
Nosepiece	Quintuple nosepiece		
Objectives	Semi-apochromatic metallurgical objective PlanFluor EPI 5X/0.15, WD:20mm		
	Semi-apochromatic metallurgical objective PlanFluor EPI 10X/0.3, WD:11mm		
	Semi-apochromatic metallurgical objective PlanFluor EPI 20X/0.45, WD:3mm		
	Semi-apochromatic metallurgical objective PlanFluor EPI 50X/0.8, WD:1mm		
	Optional objectives	Bright field & dark field metallurgical objective N-MPFN 5X/0.15 BD, WD:20mm	
		Bright field & dark field metallurgical objective N-MPFN 10X/0.3 BD, WD:11mm	
		Bright field & dark field metallurgical objective N-MPFN 50X/0.8 BD, WD:1mm	
		Bright field & dark field metallurgical objective N-MPFN 100X/0.9 BD, WD:1mm	
Stage	Coaxial stage with left or right hand low drive control: with rotating mechanism and torque adjustment mechanism		
	Travel distance 80mm×50mm, 1mm per scale, accuracy 0.1mm		
	Triple-layer mechanical stage with glass plate clamp		
	Transparent glass plate 97mm×76mm		
Reflected illumination	Turret accommodates maximum sextuple filter block cubes		
	Mirror units of bright field		
	Digital control LED light control box, AC110V/220V		

	30W board-spectrum LED light source MG30
	Connector of broad-spectrum LED light source
	Analyzer and polarizer
	Optional illuminating system 12V100W halogen lamp house and control box
Focus	25 mm stage stroke with coarse adjustment limit stopper, torque adjustment for coarse adjustment knobs, stage mounting position variable, minimum adjustment gradations: 1 μm
Transmitted illumination system	Warm white LED lamp, brightness is continuously adjustable
	Abbe condenser, N.A. 1.1
Power line	According to user's country electrical requirement
Screw driver	M3.0 hexagon screw driver
Accessories	Immersion oil
Dust cover	MSHOT special dust cover
Optional adapters	1X/0.5X/0.75X C-mount adapter