

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.

Installation photos



Sample photos



Standard configuration

	Part	Specification	Qty
MJ43 main frame	Host	Equivalent to Olympus main frame	1
	Eyepiece	Wide field eyepiece 10X/22mm, adjustable diopter	2
	Observation tube	Hinged trinocular, high eye-point, 30°tilt, interpupil distance adjustment 50–75mm	1
	Nosepiece	Quintuple nosepiece	1
	Stage	Coaxial stage with left or right hand low drive control	1
	Glass clamp	Triple-layer mechanical stage with glass plate clamp	1
	Glass plate	Transparent glass plate 97mm×76mm	1
	Condenser	Abbe condenser, NA 1.1	1
	Power line	According to user's country electrical requirement	1
	Screwdriver	M3.0 Allen screwdriver	2
	Dust cover	MSHOT special dust cover 650*600	1
Brightfield light source		Warm white LED light source	1
Semi-apochromatic metallographic brightfield objective	PlanFluor EPI 5X/0.15, WD:20mm		1
	PlanFluor EPI 10X/0.3, WD:11mm		1
	PlanFluor EPI 20X/0.45, WD:3mm		1
	PlanFluor EPI 50X/0.8, WD:1mm		1
Epi-illumination system	Broad-spectrum high-power LED light source MG-30		1
	MG-30 Power control box		1
	Wide-spectrum high-power LED light source		1
	Vacant epi-illuminator RE-43 (sixtuple nosepiece)		1
	Bright field excitation block I		1
	Simple polarizing accessory (polarizer)		1
	Simple Polarization Accessories (Analyzer)		1

Optional accessories

Part	Specification	Qty	
MF43-N main frame	Including host, nosepiece, stage, condenser	1	
Epi-illumination system	Vacant epi-illuminator RE-43	1	
Epi-illumination source	Halogen light source	12V100W Halogen light box	1
		Halogen bulb	1
		12V100W Halogen light control box	1
	LED light source	Broad-spectrum high-power LED light source MG-30	1
		MG-30 Power control box	1
		MF43-N Matching pieces	1
Ordinary brightfield objectives	Long working distance plan objective L Plan5X/0.15 WD: 23.6mm	1	
	Long working distance plan objective L Plan 10X/0.30 WD: 17.7mm	1	
	Long working distance plan objective L Plan 20X/0.40 WD: 10.4mm	1	
	Long working distance plan objective L Plan 50X/0.55 WD: 7mm	1	
	Long working distance plan objective L Plan 100X/0.8 WD: 3.2mm	1	
Semi-Apochromatic Brightfield Metallographic Objectives	PlanFluor EPI 5X/0.15, WD:20mm	1	
	PlanFluor EPI 10X/0.3, WD:11mm	1	
	PlanFluor EPI 20X/0.45, WD:3mm	1	
	PlanFluor EPI 50X/0.8, WD:1mm	1	
	PlanFluor EPI 100X/0.9, WD:1mm	1	
Metallographic bright and dark field objectives	N-MPFN 5X/0.15 BD, WD:20mm	1	
	N-MPFN 10X/0.3 BD, WD:11mm	1	
	N-MPFN 50X/0.8 BD, WD:1mm	1	
	N-MPFN 100X/0.9 BD, WD:1mm	1	
Brightfield attachments	Bright field excitation block I	1	
	Bright field excitation block II	1	
	Simple polarizing accessory (polarizer)	1	
	Simple polarizing accessory (analyzer)	1	
Darkfield attachments	Dark field excitation block	1	
	M-D6REBD (Metallographic)	1	
Camera adapter	TV0.5XC-MO-4 / TV0.75XC-MO/ TV1XC-MO	1	