



IMM-40 Inverted Metallurgical Microscope

Applications:

IMM-40 series metallurgical microscopes are used for identification and analysis of the structures in different metals and alloys. They are the important instruments for researching metallography in metal physics. The instruments can select special photography device to take euploid pictures of atlas metallograph. The instruments are suitable for scientific research, colleges and factory.



Features:

- With plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- Coaxial coarse/fine focus system, with tension adjustable and up stop, minimum division of fine focusing: 2μm.
- ♦ 6V 20/30W halogen lamp, brightness control.
- ◆ Trinocular is compensation, can switch to observe normally or to observe the Polarize, can send 100% of light to top photography port.

pecification list:					
Model	IMM-40AT IMM-40BT				
Eyepiece	Wide field WF10	DX(Φ18mm)			
	Plan achromatic objectives with long working	Achromatic objectives(no cover glass)			
	distance (no cover glass) PL 10X/0.25	10X/0.25			
	Plan achromatic objectives with long working	Achromatic objectives(no cover glass)			
Objective	distance (no cover glass) PL L20X/0.40	20X/0.40			
Objective	Plan achromatic objectives with long working	Achromatic objectives(no cover glass) SP			
	distance (no cover glass) PL L40X/0.60	40X/0.65			
	Plan achromatic objectives with long working	Achromatic objectives(no cover glass)			
	distance (no cover glass) PL 100X/1.25(Spring, oil)	100X/1.25(Spring, oil)			
Eyepieces tube	Trinocular, Inclination of 30°				
	Frosted filter				
Filter	Blue filter				
rittei	Green filter				
	Yellow filter				
	Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine				
Focus system	focusing: 2µm.				
Nosepiece	Quadruple(Ball bearing inner locating)				
Stage	Double layer mechanical (Size:180mmX150mm,moving range:15mmX15mm)				
Illumination unit	6V 20/30W halogen lamp, brightness control.				



IMM-50 Trinocular Inverted polarized Metallurgic Microscope

Suitable for metallography image analysis system

Applications:

A new type Trinocular Inverted Metallurgic Microscope, is used for identification and analysis of the microstructure of all kinds of metals and alloy materials; quality identification for castings; inspection of raw material or metallographic structure analysis of process material and research some surface such as craze and surface coating. Operating with the polished surface down and no inlays, suitable for big and all kinds of specimen. With elegant design & making and complete system, it is suitable for observation, analysis and measurement of the metallographic structure, infiltrate layers, clad layers, melt deep and crazing. With the polarizer device and iris diaphragm brightfield illumination, it is suitable for observation and photography of grain, grain boundaries and ductile iron.



It can avoid the knocking between the specimen and objective as equipped with parfocal objectives and lifting parfocal objectives with locking device, it is suitable for mass detection to improve work efficiency.

With two optical output, the microscope can be routine used and provides synchronized image output, expand photography or digital photography system and professional quantitative metallography image analysis computer operating system.

Model		IMM-50	
	Magnification	50×-1250×	
Optical	Plan Achromatic Objective	PL10× PL 20× PL 40× PL 100×	
	Eyepiece	PL10× PL12.5×	
Eyepiece		10×(focusing) 0.1/18mm micrometer 0.01/1mm	
	configuration	Inverted, optical trinocular tube, gemel type, obliquity 45°, pupil 55-75mm dioptre	
	Configuration	±5% adjustable	
	Revolving objective	4 hole circumvolve	
	Double layer stage	Stage size:175x150mm	
Frame	Double layer stage	moving range 75x50mm X-Y resolution 0.1mm	
	Rotary stage Loading plate	Diameter Φ100mm , 360°Rotatable, Graduation 90°	
		hole Diameter Φ10/Φ15/Φ20/Φ40 mm	
	Focus system	coaxial jiggle Up/down movement: 15mm	
	i ocus system	Fine adjustment: 0.002mm Up and down locking & torsion adjustment	
		Kohler illumination; Variable	
		aperture & field diaphragm ;	
Light	Brightfield illumination	Adjustable brightness;	
System		Halogen Lamp: 20W/6V;	
		Filters: Yellow/Green/Blue/Frosted	
	Polarizing	Polarizing and checking plate	
	Power supply	AC90-240V/50-60Hz 30W	
	Dimensions & Weight	Machine N.W.:13KG	
	Dimensions & weight	Dimensions: 340(L)x400(W)x460(H)mm	





IMM-60 Trinocular Inverted polarized Metallurgic Microscope

Applications:

A new type Trinocular Inverted Metallurgic Microscope, is used for identification and analysis of the microstructure of all kinds of metals and alloy materials; quality identification for castings; inspection of raw material or metallographic structure analysis of process material and research some surface such as craze and surface coating. Operating with the polished surface down and no inlays, suitable for big and all kinds of specimen.

With elegant design & making and complete system, it is suitable for observation, analysis and measurement of the metallographic structure, infiltrate layers, clad layers, melt deep and crazing.

With the polarizer device and iris diaphragm brightfield illumination, it is suitable for observation and photography of grain, grain boundaries and ductile iron.



It can avoid the knocking between the specimen and objective as equipped with parfocal objectives and lifting parfocal objectives with locking device, it is suitable for mass detection to improve work efficiency.

With two optical output, the microscope can be routine used and provides synchronized image output, expand photography or digital photography system and professional quantitative metallography image analysis computer operating system.

Model		IMM-60
	Magnification	50×-1250×
Optical	Plan Achromatic Objective	PL10× PL 20× PL 40× PL 100×(oil)
	Eyepiece	PL10× PL12.5×
	Eyepiece	10×(focusing) 0.1/18mm micrometer 0.01/1mm
	configuration	Inverted, optical trinocular tube, gemel type, obliquity 45°, pupil $55-75$ mm dioptre $\pm 5\%$ adjustable
	Revolving objective	4 hole ball bearing circumvolve
	Double lever stage	Stage size:180x155mm
Frame	Double layer stage Rotary stage Loading plate	moving range 75x50mm X-Y resolution 0.1mm
		Diameter Φ100mm , 360°Rotatable, Graduation 90°
		hole Diameter Φ10/Φ15/Φ20/Φ40 mm
		coaxial jiggle Up/down movement: 30mm
	Focus system	Fine adjustment: 0.002mm Up and down locking & torsion adjustment
		Kohler illumination; Variable aperture & field diaphragm;
Light	Bright-field illumination	Adjustable brightness;
System		Halogen Lamp: 30W/6V ; Filters: Yellow/Green/Blue/Frosted
	Polarizing	Polarizing and checking plate
	Power supply	AC90-240V/50-60Hz 30W
Г	Dimensions & Weight	Machine N.W.:16 KG
L	micusions & weight	Dimensions 680(L)x470(W)x340(H)mm



IMM-70 Trinocular Inverted polarized Metallurgic Microscope

excellent UIS optical system Suitable for metallography image analysis system

Applications:

IMM-70 Inverted metallurgical microscope is equipped excellent UIS optical system and modularization function design so that update system expediently and achieved polarization, dark field observation.

Compact and steady main frame body is embodiment for the shock resistance. The ideal ergonomic design is adopted in this unit and has easier operation and wider space. This is ideal optical instrument for micro observation in metallurgical structure and surface morphology. It is suitable for research in metallography, mineralogy, precision engineering, etc.



Specificat	ion list.					
Model		IMM-70 (Bright-field)	IMM-70BD (Bright &Dark-field)			
	Magnification	100X 200X 500X 1000X	50X 100X 200X 500X			
Optical	Plan Achromatic Objective	10X 20X 50X 100X Dry	5X 10X 20X 50X			
	W F Eyepiece	WF 10x/20mm				
	Eyepiece	10×(focusing) 0.1/20mm	micrometer 0.01/1mm			
configuration		Inverted, optical trinocular tube, gemel type, obliquity 45°, pupil 55-75mm dioptre ±5% adjustable				
	Revolving objective	5 hole ball bearing circumvolve				
		Stage size:242x200mm				
Frame	Double layer stage	moving range 30x30 mm X-Y resolution 0.1mm				
	Rotary stage	Loading plateΦ130mm				
		coaxial jiggle Up/down movement: 30mm				
	Focus system	Fine adjustment: 0.002mm Up and down locking & torsion adjustment				
	Bright-field/ Bright	Kohler illumination; Variable aperture & field diaphragm;				
Light	&Dark-field	Adjustable brightness;				
System		Halogen Lamp: 30W/12V;	Halogen Lamp: 50W/12V			
,		Filters: Yellow/Green/Blue/N/T				
	Polarizing	Polarizing and checking plate				
Power supply		AC90-240V/50-60Hz 45W				
Dimensions & Weight		Machine N.W.:12 KG				
Dil	mensions & weight	Dimensions 500(L)x360(W)x630(H)mm				





IMM-70 DIC Metallurgic Microscope

Applications:

IMM-70DIC Inverted metallurgical microscope is equipped excellent UIS optical system and modularization function design so that update system expediently and achieved polarization, dark field observation. Compact and steady main frame body is embodiment for the shock resistance. The ideal ergonomic design is adopted in this unit and has easier operation and wider space. This is ideal optical instrument for micro observation in metallurgical structure and surface morphology. It is suitable for research in metallography, mineralogy, precision engineering, etc.



Model			IMM-70 DIC	
DIC observation system		10XDIC plate group		
		20XDIC plate group		
	Magnification	Bright-field	100X 200X 500X 1000X	
	Magnification	(Bright &Dark-field)	50X 100X 200X 500X	
Optical	Plan Achromatic Objective	Bright-field	10X 20X 50X 100X Dry	
	Pian Achiomatic Objective	(Bright &Dark-field)	5X 10X 20X 50X	
	W F Eyepiece	WF 10X/20mm		
	Eyepiece	10×(focusing) 0.1/20n	nm micrometer 0.01/1mm	
	a and fi commanti and	Inverted, optical trinoc	cular tube, gemel type, obliquity 45°, pupil	
	configuration	55-75mm dioptre ±5% adjustable		
	Revolving objective	5 hole ball bearing circumvolve		
г	Daubla lavar ataga	Stage size:242x200mm		
Frame	Double layer stage	moving range 30x30 n	nm X-Y resolution 0.1mm	
	Rotary stage	Loading plateΦ130mm		
	F	coaxial jiggle Up/do	wn movement: 30mm	
	Focus system	Fine adjustment: 0.002	2mm Up and down locking & torsion adjustment	
		Kohler illumination; V	ariable aperture & field diaphragm;	
	D ' 1 (C 11/D ' 1)	Adjustable brightness		
Light	Bright-field/ Bright &Dark-field illumination	Bright-field	Halogen Lamp: 30W/12V	
System	&Dark-neig illumination	(Bright &Dark-field)	Halogen Lamp: 50W/12V	
		Filters: Yellow/Green/Blue/N/T		
	Polarizing	Polarizing and checking plate		
Power supply		AC90-240V/50-60Hz 45W		
Dimensions & Weight		Machine N.W.:12 KG		
		Dimensions 500(L)x360(W)x630(H)mm		
		\ /		





UMM-12A Upright Metallurgical Microscope

Features:

UMM-12A series reflected metallurgical microscopes are suitable to observe the surfaces of non-transparent object. They are equipped with vertical illuminator, plan achromatic objectives with long working distance (no cover glass), wide-field eyepieces and set polarizer device in trinocular. They provide clear and high-contrast picture, convenient operation and etc. They are the ideal instruments for research work in metallography, mineralogy, precision engineering, electronics and etc. They are suitable for scientific research, teaching demonstration in the colleges and factory.

- With plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
- 6V 20W Halogen lamp, adjustable control.
- ◆ Trinocular, can switch to observe normally or to observe the polarize, can send 100% of light to the binocular eyepieces or to the top port.



specifications:				
Model	UMM-12AT UMM-12AT			
Eyepiece	Wide Field WF10X (Field Number: Φ18mm)			
	PL L5X/0.12 Working Distance: 18.3mm			
Objective	PL L10X/0.25 Working Distance: 8.8mm			
Objective	PL L40/0.60 (Spring) Working Distance: 3.7mm			
	PL L60/0.75 (Spring) Working Distance: 1.34mm			
Eyepiece Tube		ination 30°, Integrated A		
		mp (Adjustable Brightn		
Epi-illumination System			Switching Device, Puller Polarizer	
	Attached Yellow, Blue, Green Filters & Frosted Glass			
Transmitted Illumination				
System		<u> </u>		
Focusing System	Coaxial coarse/fine focusing system with tension adjustable and up stop			
8 1 9 1 1	Minimum division of fine focusing is 2 μm.			
Nosepiece	Quadruple(4)	1	Quintuple(5)	
•	(Backward ball bearing inner locating) (Backward ball bearing inner locating)			
Stage	Double Layer Mechanical Stage Maying Panga: 75 y 50mm Size: 185 y 140mm			
	Moving Range: 75 x 50mm Size: 185 x 140mm			
	Objective	Eyepiece Dividing Eyepiece (Φ18mm)		
	CCD Adapter	20X, 50X, 60X, 100X (Dry) 0.4X, 0.5X, 1X, 0.5X (With Divided Scale)		
	CCD Adapter			
Optional Accessories		USB & Video Synchronously Output: Video Output: 380/520TV Line; USB Output: 0.42Mega Pixels		
Optional Accessories	Camera			
		USB Output: 1.3M/3.0M/5.0M/9.0M Pixels Video Output: 380/520 TV Line		
	Digital	•		
	Camera Adapter	Canon (EF), Nikon (F)	





UMM-12B Upright Metallurgical Microscope

Features:

UMM-12B series reflected metallurgical microscopes are suitable to observe the surfaces of non-transparent object. They are equipped with vertical illuminator, plan achromatic objectives with long working distance (no cover glass), wide-field eyepieces and set polarizer device in trinocular. They provide clear and high-contrast picture, convenient operation and etc. They are the ideal instruments for research work in metallography, mineralogy, precision engineering, electronics and etc. They are suitable for scientific research, teaching demonstration in the colleges and factory.

- With plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
- ◆ 6V 20W Halogen lamp, adjustable control.
- ◆ Trinocular, can switch to observe normally or to observe the polarize, can send 100% of light to the binocular eyepieces or to the top port.



pecifications.			
Model	UMM-12B		UMM-12BT
Eyepiece	Wide Field WF10X (Field N	Number: Ф18mm)	
	PL L5X/0.12 Working Dis	tance: 18.3mm	
Objective	PL L10X/0.25 Working Distance: 8.8mm		
Objective	PL L40/0.60 (Spring) Working Distance: 3.7mm		
	PL L60/0.75 (Spring) Work		
Eyepiece Tube	Trinocular Tube, Inclination	30°, Integrated Analyzer	
	6V, 20W Halogen Lamp (Ac	djustable Brightness)	
Epi-illumination System	Integrated Field, Aperture D		ng Device, Puller Polarizer
	Attached Yellow, Blue, Gree	n & Red Filters	
Transmitted Illumination	Outside Field Diaphragm, 6	V, 20W Halogen Lamp (Adjustable Brightness)	
System	Abbe Condenser NA.1.25 (Rack & Pinion Adjustable)		
Attached Blue, Green Filters & Frosted Glass			
Focusing System	Coaxial coarse/fine focusing system with tension adjustable and up stop Minimum division of fine focusing is 2 µm.		
Nosepiece	Quadruple (4)		Quintuple (5)
Nosepiece	(Backward ball bearing inner locating) (Backward ball bear		(Backward ball bearing inner locating)
Stage	Double Layer Mechanical Stage Moving Range: 75 x 50mm Size: 160 x 140mm		
	Eyepiece	Dividing Eyepiece (Φ18mm)	
	Objective	20X, 50X, 60X, 100X (Dry)	
	CCD Adapter	0.4X, 0.5X, 1X, 0.5X (With Divided Scale)	
Optional Accessories	USB & Video Synchro		<i>y</i> 1
· · · · · · · · · · · · · · · · · · ·	Camera		TV Line USB Output: 0.42Mega Pixels
		USB Output: 1.3M/3.0M/5.0M/9.0M Pixels	
	Video Output: 380/520 TV Line		
	Digital Camera Adapter	Canon (EF), Nikon (I	f)





UMM-12C Upright Metallurgical Microscope

Features:

UMM-12C series reflected metallurgical microscopes are suitable to observe the surfaces of non-transparent object. They are equipped with vertical illuminator, plan achromatic objectives with long working distance (no cover glass), wide-field eyepieces and set polarizer device in trinocular. They provide clear and high-contrast picture, convenient operation and etc. They are the ideal instruments for research work in metallography, mineralogy, precision engineering, electronics and etc. They are suitable for scientific research, teaching demonstration in the colleges and factory.

- ◆ With plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
- ◆ 6V 20W Halogen lamp, adjustable control.
- Trinocular, can switch to observe normally or to observe the polarize, can send 100% of light to the binocular eyepieces or to the top port.



pecifications:				
Model	UMM-12CT UMM-12CT			
Eyepiece	Wide Field WF10X (Fie	ld Number: Φ18mm)		
J 1	PL L5X/0.12 Working	Distance: 18.3mm		
01: "	PL L10X/0.25 Working	Distance: 8.8mm		
Objective	PL L40/0.60 (Spring) W	Vorking Distance: 3.7m	m	
	PL L60/0.75 (Spring) W	orking Distance: 1.34r	nm	
Eyepiece Tube	Trinocular Tube, Inclinat	ion 30°, Integrated Ana	alyzer	
E : : : : : : : : :	6V, 20W Halogen Lamp	(Adjustable Brightness	s)	
Epi-illumination	Integrated Field, Aperture	e Diaphragm, Filter Sw	vitching Device, Puller Polarizer	
System	Attached Yellow, Blue, G	Freen Filters & Frosted	Glass	
T :4 1	Outside Field Diaphragm, 6V, 20W Halogen Lamp (Adjustable Brightness)		Lamp (Adjustable Brightness)	
Transmitted	Abbe Condenser NA.1.25 (Rack & Pinion Adjustable)			
Illumination System	Attached Blue Filter & Frosted Glass			
Fin- Ct	Coaxial coarse/fine	focusing system v	vith tension adjustable and up stop	
Focusing System	Minimum division of fine focusing is 2 μm.			
Naganiaga	Quadruple(4)		Quintuple(5)	
Nosepiece	(Backward ball bearing i	inner locating)	(Backward ball bearing inner locating)	
Stage	Double Layer Mechanical StageMoving Range: 75 x 50mm Size: 185 x 140mm			
	Eyepiece	Dividing Eyepiece (Ф18mm)	
	Objective	20X, 50X, 60X, 100X (Dry)		
	CCD Adapter	0.4X, 0.5X, 1X, 0.5X	(With Divided Scale)	
Optional Accessories		USB & Video Synchronously Output:		
Optional Accessories	Camera	Video Output: 380/52	20TV Line USB Output: 0.42Mega Pixels	
	Camora	-	.0M/5.0M/9.0M Pixels	
		Video Output: 380/52	20 TV Line	
	Digital Camera Adapter	Canon (EF), Nikon	(F)	





UMM-15A Upright Metallurgical Microscope

Features:

UMM-15A reflected metallurgical microscope is applicable to observe the opaque objects. It is equipped with Epi-illumination system, infinity plan achromatic and long working distance objectives, wide-field eyepieces and integrated polarizing device. It provides clear and good contrast picture, beautiful sculpt, convenient operation. It is the ideal instruments for research work in metallography, mineralogy, precision engineering, electronics, etc. It is suitable for scientific research, teaching demonstration in the colleges and factory.

- ◆ Adopt infinity optical system and modularization function design.
- ◆ Infinity long W.D plan objectives, the field of view is widely and clear.
- Wide-field plan eyepieces: field number Φ22mm.
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
- ◆ Integrated polarization observation device, the polarizer can be circumrotated for 360°.
- ◆ The Epi- illumination is 6V 30W halogen lamp and the lamp box cover can be revolved, replacing lamp facility and safety.
- Trinocular can be observation for eyepieces and microphotography in 100% light flux, suits for low illuminance microphotography.



pecifications.		
Model	UMM-15A	
Eyepiece	Wide field WF10X(Φ22mm)	
	Infinity plan achromatic objectives with long working distance (no cover glass)	
	PL L5X/0.12 (Work distance): 26.1 mm	
Objective	PL L10X/0.25 (Work distance): 20.2 mm	
	PL L40X/0.60 (spring) (Work distance:3.98 mm)	
	PL L60X/0.70 (spring£) (Work distance :3.18 mm)	
Eyepieces tube	Trinocular, Inclination of 30°, (Analyzer with field diaphragm to switch)	
Epi- illumination	6V 30W, halogen lamp, adjustable brightness	
	Integrated field, aperture diaphragm and (Y,B,G, ground glass) switching device.	
system	Push-pull type polarizer.	
Focus system	Coaxial coarse/fine focus system, with tension adjustable and limit stopper,	
rocus system	minimum division of fine focusing: 2μm.	
Nosepiece	Quintuple (Backward ball bearing inner locating)	
Stage	Double layer mechanical (Size:210mmX140mm,movingrange:75mmX50mm)	





UMM-15B Upright Metallurgical Microscope

Features:

UMM-15B reflected and transmitted microscope is suitable to observe surfaces of non-transparent object or transparent object. It is equipped with vertical illuminator, infinity plan achromatic objectives with long working distance (no cover glass), wide-field eyepieces and set polarizer device in trinocular. It provides clear and high-contrast image, beautiful sculpt, convenient control, etc. It is the ideal instruments in research work in biology, metallography, mineralogy, precision engineering, electronics, etc. It is suitable for scientific research, teaching demonstration in the colleges and factory.

- With infinity plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ◆Movement of stage: 30mm
- With vertical illuminator and transmitted illuminator, can observe surfaces of non-transparent object or transparent object.
- ◆ Trinocular, can switch to observe normally or to observe the Polarize, can send 100% of light to the binocular eyepieces or to the top port.



Model	UMM-15B
Eyepiece	Wide field WF10X(Φ22mm)
	Infinity plan achromatic objectives with long working distance (no cover glass)
	PL L5X/0.12(Work distance): 26.1 mm
Objective	PL L10X/0.25(Work distance): 20.2 mm
	PL L40X/0.60 (Spring) Work distance: 3.98 mm
	PL L60X/0.70 (Spring) Work distance): 3.18 mm
Eyepieces tube Trinocular inclined 30°, can be shot in 100% light flux.	
	6V 30W, halogen lamp, adjustable brightness
Epi- illumination system	Integrated field diaphragm, aperture diaphragm and filter switching device.
	Push-pull type analyzer and polarizer
Foous system	Coaxial coarse/fine focus system, with tension adjustable and limit stopper,
Focus system	minimum division of fine focusing: 2μm.
Nosepiece	Quintuple (Backward ball bearing inner locating)
Stage	Double layer mechanical (Size:210mmX140mm,movingrange:75mmX50mm)
	Abbe condenser NA.1.25 Rack & pinion adjustable
Transmitted illumination system	Blue filter and Ground glass
Transmitted mullimation system	Collector for illumination with halogen lamp (With field diaphragm)
	6V 30W halogen lamp, adjustable brightness





UMM-15BD Upright Metallurgical Microscope

Features:

UMM-15BD upright bright or dark transmitted or reflected light metallurgical microscope is a multi-purpose industrial inspection optical instrument. It is equipped with bright or dark field objectives, wide field eyepieces and integrated polarization observation device, the Kohler illuminator is used in the transmitted and reflected illuminating system, the whole field is clear and uniformity. It is suitable for inspecting, such as semiconductor silicon wafer, LCD floor plate, electrocircuit plate, solid powder and all kind of industry sample that translucent or opaque. It is the ideal instruments in research work in biology, metallography, mineralogy, precision engineering, electronics, etc.

- ◆ Adopt infinity optical system and modularization function design.
- Long W.D bright or dark field plan objectives (no cover glass), the field of view is widely and clear.
- ♦ Wide-field plan eyepieces: field number Φ22mm.
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
- ◆ Integrated polarization observation device, the polarizer can be circumrotated for 360°.
- ◆ The Epi- illumination is 12V 50W halogen lamp and the lamp box cover can be revolved, replacing lamp facility and safety. The transmitted illumination is 12V 30W halogen lamp and adding radiator.
- ◆ Trinocular can be observation for eyepieces and microphotography in 100% light flux, suits for dark field microphotography



pecifications.			
Model	UMM-15BD		
Eyepiece	Wide field WF10X (field number: Φ22mm)		
	Infinity plan achromatic bright or dark field with long work distance. (no cover glass)		
1	PL L5X/0.12 B.D (Work distance: 9.7 mm)		
objective	PL L10X/0.25 B.D (Work distance: 9.3 mm)		
	PL L20X/0.40 B.D (Work distance: 7.2 mm)		
	PL L40X/0.60 B.D (Work distance: 3.0 mm)		
Eyepieces tube	Trinocular, Inclination of 30°, (Integrated analyzer and switching freely), Brinocular		
	12V 50W halogen lamp, adjustable brightness		
Epi- illumination system	Integrated field diaphragm, aperture diaphragm and filter switching device. Push-pull type analyzer and polarizer		
	Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum		
Focus system	division of fine focusing: 2µm.		
Nosepiece	Quintuple (Backward ball bearing inner locating)		
Stage	Double layer mechanical (Size:210mmX140mm,movingrange:75mmX50mm)		
	Abbe condenser NA.1.25 Rack & pinion adjustable		
Transmitted illumination	Blue filter and Ground glass		
system	Collector for illumination with halogen lamp (With field diaphragm)		
	12V 30W halogen lamp, adjustable brightness		







UMM-15DIC Upright Metallurgical Microscope

Features:

UMM-15DIC differential interference contrast microscope is suitable to observe many different kinds of object. It is equipped with transmitted illuminator and reflected DIC system, infinity plan achromatic objectives with long working distance, wide-field eyepieces and polarizer device. It provides clear and 3D image, beautiful sculpt, convenient control, etc. It is the ideal instruments in research work in biology, metallography, mineralogy, precision engineering, electronics, etc.

- ◆ Excellent UIS optical system can obtain excellent optical performance.
- Compact and steady main frame body is embodiment for the shock resistance.
- Modularization function design so that update system expediently and achieved polarization, DIC observation.
- ◆ Ideal ergonomic design is adopted in this unit and have easier operation and wider space.



Model	UMM-15DIC	
Eyepiece	Wide field WF10X(Φ18mm)	
	Infinity plan achromatic objectives with long working distance (no cover glass)	
	PL L5X/0.12 Work distance:26.1 mm	
Objective	PL L10X/0.25 Work distance:20.2 mm	
	PL L20X/0.40 Work distance:8.8 mm	
	PL L40X/0.60 (spring) Work distance:3.98 mm	
DIC observation avators	10XDIC push-pull group	
DIC observation system	20XDIC push-pull group	
Eyepieces tube	Trinocular, Inclination of 30°, Brinocular	
	12V 50W, halogen lamp, adjustable brightness	
Epi- illumination system	Integrated field diaphragm, aperture diaphragm and (Y,B,G, ground glass)	
	switching device. Push-pull type analyzer and polarizer.	
Equip gratam	Coaxial coarse/fine focus system, with tension adjustable and limit stopper,	
Focus system	minimum division of fine focusing: 2μm.	
Nosepiece Quintuple (Backward ball bearing inner locating)		
Stage	Double layer mechanical (Size:210mmX140mm,movingrange:75mmX50mm)	
	Abbe condenser NA.1.25 Rack & pinion adjustable	
Transmitted illumination	Blue filter and Ground glass	
system	Collector for halogen lamp illumination and integrated field diaphragm	
	12V 30W halogen lamp, adjustable brightness	





UMM-16A Upright Metallurgical Microscope

Features:

UMM-16A reflected metallurgical microscope is suitable to observe the surfaces of non-transparent object. It is equipped with vertical illuminator, plan achromatic objectives with long working distance (no cover glass), wide-field eyepieces and set polarizer device in trinocular. It provide clear and high-contrast picture, beautiful sculpt, convenient operation, etc. It is the ideal instruments for research work in metallography, mineralogy, precision engineering, electronics, etc. It is suitable for scientific research, teaching demonstration in the colleges and factory.

- ◆With plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
- ♦6V 20W halogen lamp, adjustable brightness.
- ◆ Trinocular, can switch to observe normally or to observe the polarize, can send 100% of light to the binocular eyepieces or to the top port.



Model	UMM-16A	
Eyepiece	Wide field WF10X(Φ18mm)	
	Plan achromatic objectives with long working distance (no cover glass) PL 5X/0.12	
Objective	Plan achromatic objectives with long working distance (no cover glass) PL L10X/0.25	
Objective	Plan achromatic objectives with long working distance (no cover glass) PL L20X/0.40	
	Plan achromatic objectives with long working distance (no cover glass) PL L50X/0.70	
Eyepieces tube	Trinocular, Inclination of 30°, (Analyzer with field diaphragm to switch)	
	6V 20W, Halogen lamp, Adjustable brightness	
Vertical illumination unit	Vertical illumination With field diaphragm ,aperture diaphragm and	
	polarizer,(Y,B,G)filter and Ground glass	
Focus system	Coaxial coarse/fine focus system, with tension adjustable and up stop, minimum division	
rocus system	of fine focusing: 2μm.	
Nosepiece	Quadruple Backward ball bearing inner locating	
Stage	Double layer mechanical (Size: 210mmX140mm,movingrange:75mmX50mm)	





UMM-16B Upright Metallurgical Microscope

Features:

UMM-16B reflected and transmitted microscope is suitable to observe surfaces of non-transparent object or transparent object. It is equipped with vertical illuminator, plan achromatic objectives with long working distance (no cover glass), wide-field eyepieces and set polarizer device in trinocular. It provide clear and high-contrast image, beautiful sculpt, convenient control, etc. It is the ideal instruments in research work in biology, metallography, mineralogy, precision engineering, electronics, etc. It is suitable for scientific research, teaching demonstration in the colleges and factory.

- With plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- ◆ Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2µm.
- ◆ With vertical illuminator and transmitted illuminator, can observe surfaces of non-transparent object or transparent object.
- ♦6V 20W halogen lamp, adjustable brightness.
- ◆ Trinocular, can switch to observe normally or to observe the Polarize, can send 100% of light to the binocular eyepieces or to the top port.



pecifications:			
Model	UMM-16B		
Eyepiece	Wide field WF10X(Φ18mm)		
	Plan achromatic objectives with long working distance (no cover glass) PL 5X/0.12		
Objective	Plan achromatic objectives with long working distance (no cover glass) PL L10X/0.25		
Objective	Plan achromatic objectives with long working distance (no cover glass) PL L20X/0.40		
	Plan achromatic objectives with long working distance (no cover glass) PL L50X/0.70		
Eyepieces tube	Trinocular, Inclination of 30°, (Analyzer with field diaphragm to switch)		
	6V 20w, halogen lamp, adjustable brightness		
Vertical illumination unit	Vertical illumination with field diaphragm, aperture diaphragm and		
	polarizer,(Y,B,G)filter and Ground glass		
Focus system	Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum		
1 coup by sceni	division of fine focusing: 2μm.		
Nosepiece	Quadruple(Backward ball bearing inner locating)		
Stage	Double layer mechanical (Size:210mmX140mm,movingrange:75mmX50mm)		
	Abbe condenser NA.1.25 Rack & pinion adjustable		
Vertical illumination unit	Blue filter and Ground glass		
v Crtical munimation unit	Collector for illumination with halogen lamp (With field diaphragm)		
	6V 20w, halogen lamp, adjustable brightness		





Upright Metallurgical Microscope UMM-100 and UMM-200

The Upright Trinocular Metallurgical Microscope Has A Polariscope With A Big Working Stage.

Features:

Upright design is suitable to find a fixture object and to observe, research and analyse the object on a broader surface. The instruments are widely applicable in the field of IT, PCB and micro pellets, threads, fibre, surface coatings etc., and testing, researching, and analysing metallurgical struture of materials. They are also broadly suitable for factories, laboratories, and teaching and researching areas.

A big shifting range loading stage is suitable to observe the specimen of large PCBs and silicon wafers etc.

The polarising co-axial epi-illuminating system, generating sharp pictures and clarifying contrasts, is proper for various complicated ovservations and shoots.

Swift co-axial vertical and horizontal shiting loading stage and a variety buitl-in fliter switching make operation easy.





ecincations:					
Models		UMM-100	UMM-200	UMM-100A	UMM-200A
Optical Total amplification		50×100×200×400×600×			
system	achromatic objective	PL 5× PLL 10× PLL 20× PLL 40×			
	Wide field	WF10×/18			
Attachment	Cross WF eyepiece and	10×	zoom graduation 0.1/18	mm micrometer 0.01/	1 mm
	Basic Structure	Upi	right Design, Hinge Trii	nocular Tube: 45°oblic	quity,
	Revolving objective	5 hole ball bearing circumvolve			
Frame	Double layer stage	230x230mm; move range: 150×150mm, 270x270mm, moving		g range 200x200mm	
	focusing system	Coaxial coarse and fine, Up-down adjusting range:35mm, Vernier Calibration 0.002			
	focusing modes	Lifting stage	Lifting	Lifting stage	Lifting
			Kohler Illumination, Variable Aperture and field diaphragm,		
Illumination	Reflected illumination	Inside switching color filters: yellow/green/blue/frosted			
systems		Built-in	External	Built-in	External
Polarizing light system		Co-axial epi-illuminating polarizing setting: polarizer and analyzer			
Power supply		AC220V/50Hz 30W			
Package		Weight: 17Kg, Package Size: 550x540x470 Cm			





UMM-300 Upright Metallurgical Microscope

Features:

UMM-300 upright metallurgical microscope is suitable to observe surfaces of opaque object. It is equipped excellent UIS optical system and modularization function design so that update system expediently and achieved polarization, dark field observation. Compact and steady main frame body is embodiment for the shock resistance. The ideal ergonomic design is adopted in this unit and has easier operation and wider space. This is ideal optical instrument for micro observation in metallographic structure and surface morphology. It is suitable for research in metallography, mineralogy, precision engineering, etc.

- ◆ 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: 0.8μm
- ♦ 6V 30W halogen lamp, adjustable brightness
- ◆ Trinocular, can switch to normally/polarize observation, bright field / dark field observation. Can send 100% of light to the binocular eyepieces or to the top port



pecinications:				
	UMM-300	UMM-300BD		
Model	Equipped with bright field objectives	Equipped with bright & dark field objectives		
Eyepiece	Wide field WF10X(field number: Φ22mm)			
	PL L5X/0.12 (Work distance): 26.1 mm	PL L5X/0.12 BD (Work distance): 9.70 mm		
	PL L10X/0.25 (Work distance): 20.2 mm	PL L10X/0.25 BD (Work distance): 9.30 mm		
Infinity plan achromatic objective	PL L20X/0.40 (Work distance): 8.80 mm	PL L20X/0.40 BD (Work distance): 7.23mm		
	PL L50X/0.70 (Work distance): 3.68 mm	PL L50X/0.70 BD (Work distance): 2.50 mm		
	PL L80X/0.80 (Work distance): 1.25 mm	PL L80X/0.80 BD (Work distance): 1.25 mm		
Epi- illumination	6V30W halogen and brightness enable control 2V50W halogen and brightness enable control			
system	Integrated field diaphragm, aperture diaphragm	and (Y, B, G, ground glass) switching device.		
	Push-pull type analyzer and polarizer.			
Eyepieces tube	Trinocular inclined 30°, can be shot in 100% light flux.			
Focus system	Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum			
1 ocus system	division of fine focusing: 0.7μm.			
Nosepiece	Quintuple (Backward ball bearing inner locating)			
Stage	Mechanical stage size: 280mmX270mm (moving range: 204mmX204mm)			





UMM-300DIC Upright Metallurgical Microscope

Features:

UMM-300DIC differential interference contrast microscope is suitable to observe many different kinds of object. It is equipped with transmitted illuminator and reflected DIC system, infinity plan achromatic objectives with long working distance, wide-field eyepieces and polarizer device. It provides clear and 3D image, beautiful sculpt, convenient control, etc. It is the ideal instruments in research work in biology, metallography, mineralogy, precision engineering, electronics, etc.

- Excellent UIS optical system can obtain excellent optical performance.
- Compact and steady main frame body is embodiment for the shock resistance.
- ◆ The large-mobile range mechanical stage is adapted to observation big size specimen or quick check.
- Modularization function design so that update system expediently and achieved polarization, DIC observation.
- Ideal ergonomic design is adopted in this unit and have easier operation and wider space.



Objective (Infinity and	Туре	Magnification	Number aperture	Working distance (mm)	Thickness of cover glass (mm)
long working distance plan achromatic objective)		5X	0.12	26.1	0
	Deight Field	10X	0.25	20.2	0
	Bright Field	20X	0.4	8.8	0
	objective	40X	0.6	3.98	0
		80X	0.8	1.28	0

Eyepiece	10X Wide-field plan eyepiece (field of view Φ18mm)	
Eyepiece tube	Inclination of 30° and interpupillary distance is 53-75mm	
Equaina avatam	Coaxial coarse/fine focus, with tension adjustable and up stop minimum division of fine	
Focusing system	focusing: 0.8µm	
Nosepiece	Quintuple (Backward ball bearing inner locating)	
Stage	Mechanical stage size: 280mmX270mm (moving range: 204mmX204mm)	
Polarization Unit	Polarizer enable 360°rotate and switched in or out	
Polarization Onit	Analyzer can be switched in or out	
Light gourge	12V 50W halogen, brightness enable control	
Light source	10X DIC push-pull group	
DIC observation system	20X DIC push-pull group	





BM-100 Inverted Microscope

BM-100 Inverted microscope is equipped with wide field eyepieces, long working distance plan achromatic objectives, long working distance condenser and phase contrast unit. It can be observed transparent and unfinished living specimen in culture bottle or culture utensil. It is the ideal instrument suitable for research of living specimen structure, liquid, deposits and so on. It also can be used in research institutes, universities, medical treatment, agriculture and animal husbandry etc.

Features:

- ◆ Equipped with wide field eyepieces, long working distance plan achromatic objectives
- ◆ Equipped with phase contrast unit, include long working distance condenser, phase contrast objective and centering telescope
- Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ♦6V 20W halogen lamp with brightness control

Specification List:

Model	BM-100		
Eyepiece	Wide field WF10X(Φ20mm)		
	Long working distance plan achromatic PL L 10X/0.25		
Objective	Long working distance plan achromatic PL L 25X/0.40		
Objective	Long working distance plan achromatic PL L 40X/0.60		
	Long working distance plan achromatic phase contrast objective PL L 10X/0.25 PHP		
Eyepiece tube	Trinocular (Inclination of 30°, 100% image light for photography capable)		
Focus system	Coaxial coarse/fine focus, with tensional adjustable and up stop minimum division of fine		
	focusing: 2μm.		
Nosepiece	Quadruple (Ball bearing inner locating)		
Stage	Double layer mechanical (Size200mmX152mm,moving range:75mmX30mm)		
Shelf of specimen	Match to install Φ68mm or 77mmX33mm culture utensil		
Shell of specimen	Match to install Φ68mm culture utensil		
Filter	Blue filter Green filter Frosted filter		
Impellent style	Centering telescope		
phase contrast unit	10X Impellent style phase plate		
phase contrast unit	Condenser Rack & pinion adjustable, NA=0.4, working distance: 30mm		
Light source	e 6V 20W Halogen lamp with brightness control.		

Optional:

opuonai:	_			
Name	Technique para	Technique parameter		
Eyepiece	WF16X(Ф11m	m)		
Еуеріесе	Dividing 10X	Z(Φ20mm), 0.1mm/Div		
Nosepiece	Quintuple (Bal	ll bearing inner locating)		
Condenser	Ultra long worl	king distance, W.D.:70mm		
Filter	Yellow filter			
	Objectives	Long working distance plan achromatic phase contrast objective PL L 25X/0.40 PHP		
Impellent style phase contrast unit	Objectives	Long working distance plan achromatic phase contrast objective PL L 40X/0.60 PHP		
	Impellent	25X		
	phase plate	40X		
	Objectives	Long working distance plan achromatic phase contrast objective PL L 10X/0.25 PHP2		
CIT I'm a language		Long working distance plan achromatic phase contrast objective PL L 25X/0.40 PHP2		
Sliding phase contrast unit		Long working distance plan achromatic phase contrast objective PL L 40X/0.60 PHP2		
	Sliding phase	10X		
	plate	25X/40X		
	Condenser Rac	k & pinion adjustable, NA=0.4,working distance: 55mm		
CCD adapter	0.4X 0.5X	1X 0.5X with dividing 0.1mm/Div		





BM-200 Inverted Microscope

BM-200 Inverted microscope is equipped with wide field eyepieces, long working distance plan achromatic objectives and very long working distance condenser and phase contrast unit. It can be observed transparent and unfinished living specimen in culture bottle or culture utensil. It is the ideal instrument suitable for research of living specimen structure, liquid, deposits and so on. It also can be used in research institutes, universities, medical treatment, agriculture and animal husbandry, etc.

Features:

- ◆ Equipped with wide field eyepiece, long working distance plan achromatic objectives
- ◆ Equipped with phase contrast unit, include very long working distance condenser, phase contrast objective and centering telescope
- Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ♦ 6V30W halogen lamp with brightness control



Specification List:

pecification List.		
Model	BM-200	
Eyepiece	Wide field WF10X(Φ20mm)	
	Long working distance plan achromatic PL L 10X/0.25	
Objective	Long working distance plan achromatic PL L 25X/0.40	
Objective	Long working distance plan achromatic PL L 40X/0.60	
	Long working distance plan achromatic phase contrast objective PL L 10X/0.25 PHP2	
Eyepiece tube	Trinocular (Inclination of 30°, 100% image light for photography capable)	
Econg gyatom	Coaxial coarse/fine focus, with tensional adjustable and up stop minimum division of fine	
Focus system	focusing: 2μm.	
Nosepiece	Quadruple (Ball bearing inner locating)	
Stage	Double layer mechanical (Size: 224mm x 208mm, Moving Range:112mm x 79mm)	
	Match to install Φ68mm or 77mm x 29mm culture utensil	
Shelf of specimen	Match to install 82mm x 57mm culture utensil	
	Match to install 128mm x 85mm 96 holes culture utensil	
	Blue filter	
Filter	Green filter	
	Frosted filter	
Sliding phase contrast	Centering telescope	
unit	10X Sliding phase plate	
umi	Condenser Rack & pinion adjustable, NA=0.4,working distance: 50mm	
Light source	6V 30W Halogen lamp with brightness control.	

Optional Accessories:

otional Accessories:				
Name	Sort/Technique parameter			
Eveniese	Wide field WF16X(Φ11mm)			
Eyepiece	Dividing 10X(Φ20mm), 0.1mm/Div			
Nosepiece	Quintuple(Ball bearing inner locating)			
Condenser	Ultra long working distant	Ultra long working distance, W.D.:70mm		
Filter	Yellow filter			
	Objectives	Long working distance plan achromatic phase contrast		
		objective PL L 25X/0.40 PHP2		
Sliding phase contrast unit		Long working distance plan achromatic phase contrast		
		objective PL L 40X/0.60 PHP2		
	Sliding phase plate	25X/40X		
	0.4X			
CCD adapter	0.5X			
	1X			
	0.5X with dividing 0.1mm/Div			





BM-300 Inverted Microscope

BM-300 Inverted microscope is equipped with wide field eyepieces, long working distance plan achromatic objectives and very long working distance condenser and phase contrast unit. It can be observed transparent and unfinished living specimen in culture bottle or culture utensil. It is the ideal instrument suitable for research of living specimen structure, liquid, deposits and so on. It also can be used in research institutes, universities, medical treatment, agriculture and animal husbandry, etc.



Specification List:	on List:			
Model	BM-300			
Eyepiece	Wide field WF10X(field number:Φ22mm) Centering telescope			
Infinity and long working distance plan achromatic	Objective	PLL 10X0.25 Work distance: 4.3 mm, Cover glass thickness: 1.2mm. PLL 20X0.40 Work distance: 8.0 mm, Cover glass thickness: 1.2mm. PLL 40X0.60 Work distance: 3.5 mm, Cover glass thickness: 1.2mm.		
objective	Phase Contrast	PLL 10X0.25 PHP2 Work distance: 4.3 mm.		
Objective	Objective	Cover glass thickness: 1.2mm.		
Eyepiece tube	Inclination angle is 45°	and interpupillary distance is 53~75mm.		
Focus system	Coaxial coarse/fine focus, with tension adjustable and up stop minimum division of fine focusing is 2µm.			
Nosepiece	Quintuple nosepiece			
	Fixed stage overall size is 227mmX208mm			
	Glass rotundity stage or	verall size is Φ118mm		
	Mechanical moving de	vice, moving range is 77mm (longitudinal)X114mm (transverse)		
Stage	Culture dish holder 1	Inside locating slot size: 86mm (W)X129.5mm (L), optional with a circular culture dish Φ87.5mm		
	Culture dish holder 2	Inside locating slot size: 34mm (W)X77.5mm (L), optional with a circular culture dish Φ68.5mm		
	Culture dish holder 3	Inside locating slot size:: 57mm (W)X82mm (L)		
Condenser system		te condenser, working distance: 55mm, and with turn plate phase		
	contrast unit			
Illumination system	6V30W halogen, brightness enable control			
Filter	Frosted glass and blue, green filter			

Optional Accessories:

_			
	Name	Sort/Technique parameter	
	eyepiece	Dividing eyepiece(field number:Φ22mm) 0.10mm/Div	
Phase Contrast PL L20X/0.40 PHP2 Work distance: 8.0 mm		PL L20X/0.40 PHP2 Work distance: 8.0 mm	
Objective PL L40X/0.60 PHP2 Work distance: 3.5 mm		PL L40X/0.60 PHP2 Work distance: 3.5 mm	
Nosepiece Hexad:		Hexad nosepiece	
	CCD Adapter	0.5X	
	CCD Adapter	1X	





BM-15A Biological Microscopes

BM-15A biological microscopes are equipped with achromatic objectives and wide field eyepieces. They have clear image and wide view field through optical system. They can be broadly applied in biology medicine, agriculture etc. They are the ideal instruments for medical treatment, teaching and scientific research.

Features:

- ♦ With wide field eyepieces and achromatic objectives, the field of view is widely and clear
- ◆ Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2µm
- ♦ 6 Volt 20 Watt Halogen lamps with brightness control.



Specification List:

Model	BM-15A		
Eyepiece	Wide field WF10X(Φ18mm)		
Objective (Achromatic	4X/0.10; 10X/0.25; 40X/0.65(Spring); 100X/1.25(Spring, oil)		
Eyepiece tube	Binocular(Inclination of 30°)		
Focus system	Coaxial coarse/fine focus, with tensional adjustable and up stop, minimum division of fine focusing: 2µm.		
Nosepiece	Quadruple(Backward ball bearing inner locating)		
Stage	Double layer mechanical (Size:135mmX125mm, Move range: 75mmX35mm)		
Abbe condenser	N.A.1.25 Rack & pinion adjustable		
Filter	Blue filter; Frosted filter		
Collector	For halogen lamp		
Light source	6V 20W Halogen lamp with brightness control		

Optional accessories:

puonai accessories.				
Name	Technique parameter	Technique parameter		
Eyepiece	Wide field WF16X(Φ11m	nm); Dividing 10	X(Ф18mm)	0.1mm/Div
	Plan achromatic 4X/0.10			Monocular(Inclination of 30°)
	Plan achromatic 5X/0.12			Binocular, Sliding(Inclination of 45°)
	Plan achromatic 10X/0.25		E	Trinocular, Sliding(Inclination of 45°)
Objective	Plan achromatic 20X/0.40		Eyepiece tube	Trinocular(Inclination of 30°)
	Plan achromatic 40X/0.650	(Spring)	tube	Dual viewing tube(Inclination of 30°)
	Plan achromatic 60X/0.850	(Spring)		
	Plan achromatic 100X/1.2:	5(Spring, oil)		
Nosepiece	Quintuple(Backward ball be	earing inner locating	g)	
Filter	Green filter; Yellow filter			
Light source	LED Collector	Bright and white l	light	
Condenser	Dark field	Dry; Immersion	l	
	Eyepiece	Centering telescop	ре	
	plan achromatic 10X/0.25 PHP; 20X/0.40 PHP; 40X/0.65 PHP(Spring);		P; 40X/0.65 PHP(Spring);	
Phase contrast unit	Objectives			
	(PH-¢ñ) Turnplate phase contrast condenser; (PH-¢ò) Turnplate phase contrast condenser			
	Flashboard phase contrast c	poard phase contrast condenser; Pull board phase contrast condenser		
	Eyepiece tube	Binocular (Inclina	ation of 30°);	Trinocular (Inclination of 30°)
	Eyepiece	Centering telescop	pe	
		Infinity plan achro	omatic 4X/0).10; 10X/0.25; 20X/0.40
Infinity optical system				/0.65(Spring); 100X/1.25(Spring, oil)
initity optical system	Objectives	Infinity phase contrast plan achromatic 10X/0.25 PHP		
	Objectives	Infinity phase contrast plan achromatic 20X/0.40 PHP		
		Infinity phase contrast plan achromatic 40X/0.65 PHP(Spring)		
	Infinity phase contrast plan achromatic 100X/1.25 PH		romatic 100X/1.25 PHP(Spring, Oil)	
CCD adapter	0.4X; 0.5X; 1X; 0.5X with dividing 0.1mm/Div			
Facility polarize	Polarizer(360° rotatable stage); Analyzer			
Adapter(LED illumination)	Input: 110/230V; 50/60HZ	Output: 9V 500n	nA	





BM-16A Biological Microscopes

BM-16 series biological microscopes are equipped with achromatic objectives or semi-plan achromatic and wide field eyepieces. They provide clear image and wide field. They can be used for biology medicine and agriculture area widely. They are the ideal instruments in medical treatment and scientific research.

Features:

- ◆ With wide field eyepieces, achromatic objectives or semi-plan achromatic, the field of view is widely and clear
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ♦ 6 Volt 20 Watt Halogen lamps with brightness control.



Model	BM-16A	BM-16B	
Eyepiece	Wide field WF10X(Φ18mm)		
	Achromatic 4X/0.10	Semi-plan achromatic 4X/0.10	
Objective	Achromatic 10X/0.25	Semi-plan achromatic 10X/0.25	
Objective	Achromatic 40X/0.65(Spring)	Semi-plan achromatic 40X/0.65(Spring)	
	Achromatic 100X/1.25(Spring, oil)	Semi-plan achromatic 100X/1.25(Spring, oil)	
Eyepiece tube	Binocular (Inclination of 30°)		
Focus system	Coaxial coarse/fine focus, with tensional adjustable and up stop minimum division of fine		
	focusing: 2μm.		
Nosepiece	Quadruple(Frontward ball bearing inner locating)		
Stage	Double-layer mechanical (Size:135mmX125mm, Move range: 75mmX35mm)		
Abbe condenser	N.A.1.25 Rack & pinion adjustable		
Filter	Blue filter		
rinci	Frosted filter		
Collector	For halogen lamp		
Light source	6V 20W Halogen lamp with brightness control		





BM-17A Biological Microscopes

BM-17 series biological microscopes are equipped with achromatic objectives or semi-plan achromatic and wide field eyepieces. They provide clear image and wide field. They can be used for biology medicine and agriculture area widely. They are the ideal instruments in medical treatment and scientific research.

Features:

- With wide field eyepieces, achromatic objectives or semi-plan achromatic, the field of view is widely and clear
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ♦ 6Volt 20Watt Halogen lamp with brightness control



Model	BM-17A BM-17B		
Eyepiece	Wide field WF10X(Φ18mm)		
	Achromatic 4X/0.10	Semi-plan achromatic 4X/0.10	
Objective	Achromatic 10X/0.25	Semi-plan achromatic 10X/0.25	
Objective	Achromatic 40X/0.65(Spring)	Semi-plan achromatic 40X/0.65(Spring)	
	Achromatic 100X/1.25(Spring, oil)	Semi-plan achromatic 100X/1.25(Spring, oil)	
Eyepiece tube	Binocular (Inclination of 30°)		
Focus system	Coaxial coarse/fine focus, with tension adjustable and up stop minimum division of fine focusing: 2µm.		
Nosepiece	Quadruple (Backward ball bearing inner locating)		
Stage	Double layer mechanical (Size:135mm x 125mm, Move Range: 75mm x 35mm)		
Abbe condenser	N.A.1.25 Rack & pinion adjustable		
Filter	Blue filter		
rittei	Frosted filter		
Collector	For halogen lamp		
Light source	6V 20W Halogen lamp with brightness control		





BM-18A biological microscopes



BM-18 series biological microscopes are equipped with achromatic objectives or semi-plan achromatic, wide field eyepieces. They have clear image, wide field, beautiful sculpt, convenient operation etc. They can be used for medicine, and assay area widely. They are the ideal instruments in medical treatment, teaching demonstration and scientific research.

Features:

- ♦ With wide field eyepieces, semi-plan achromatic or achromatic objectives, the field of view is widely and clear
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ♦ 6Volt 20Watt Halogen lamp with brightness control

Model	BM-18A	BM-18B	
Eyepiece	Wide field WF10X (Φ18mm)		
	Achromatic 4X/0.10	Semi-plan achromatic 4X/0.10	
Objective	Achromatic 10X/0.25	Semi-plan achromatic 10X/0.25	
Objective	Achromatic 40X/0.65(Spring)	Semi-plan achromatic 40X/0.65(Spring)	
	Achromatic 100X/1.25(Spring, oil)	Semi-plan achromatic 100X/1.25(Spring, oil)	
Eyepiece tube	Binocular (Inclination of 30°)		
Focus system	Coaxial coarse/fine focus, with tension adjustable and up stop minimum division of fine		
rocus system	focusing: 2µm.		
Nosepiece	Quadruple (Backward ball bearing inner locating)		
Stage	Double layer mechanical (Size:160mmX140mm, Move Range: 75mm x 50mm)		
Abbe condenser	N.A.1.25 Rack & pinion adjustable		
Filter	Blue filter		
rittei	Frosted filter		
Collector	For halogen lamp		
Light source	6V 20W Halogen lamp with brightness control		





BM-20A biological microscopes



BM-20 series biological microscopes are equipped with plan achromatic objectives and wide field eyepieces. They provide clear image, wide field, convenience operation. They can be used for biology medicine agriculture and industry area widely. They are the ideal instrument in medical treatment, teaching demonstration and scientific research.

Features:

- ♦ With wide field eyepieces and plan achromatic objectives, the field of view is widely and clear
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ◆ Using Kohler illumination with 6 Volt 20 Watt Halogen lamps with brightness control.

Model	BM-20A	BM-20B	
Eyepiece	Wide field WF10X(Φ20mm)		
	Plan achromatic PL 4X/0.10	Plan achromatic PL 4X/0.10	
	Plan achromatic PL 10X/0.25	Plan achromatic PL 10X/0.25	
Objective		Plan achromatic PL 20X/0.40	
	Plan achromatic PL 40X/0.65(Spring)	Plan achromatic PL 40X/0.65(Spring)	
	Plan achromatic PL 100X/1.25(Spring, oil)	Plan achromatic PL 100X/1.25(Spring, oil)	
Eyepiece tube	Binocular(Inclination of 30°)		
Focus system	Coaxial coarse/fine focus, with tensional adjustable and up stop minimum division of fine		
<u> </u>	focusing: 2µm.		
Nosepiece	Quadruple(Backward ball bearing inner	Quintuple(Backward ball bearing inner locating)	
1	locating)	(
Stage	Double layer mechanical (Size:160mmX140mm, Move range: 75mmX50mm)		
Abbe condenser	N.A.1.25 Rack & pinion adjustable		
Filter	Blue filter		
Tittel	Frosted filter		
Collector	For halogen lamp		
Light source	6V 20W Halogen lamp with brightness control		





BM-21 Biological Microscopes



BM-21 biological microscopes are equipped with plan achromatic objectives and wide field eyepieces. They have clear image, wide field, beautiful sculpt, convenient operation and etc. they can be used for biology, medicine, agriculture and industry area widely. They are the ideal instruments in medical treatment, teaching demonstration and scientific research.

Features:

- ♦ With wide field eyepieces and plan achromatic objectives, the field of view is widely and clear
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ◆Using Kohler illumination with 12V 50w halogen lamp with brightness control.

Model	BM-21
Eyepiece	WF10X(Φ20mm)
	Plan achromatic PL 4X/0.10
	Plan achromatic PL 10X/0.25
Objective	Plan achromatic PL 20X/0.40
	Plan achromatic PL 40X/0.65(Spring)
	Plan achromatic PL 100X/1.25(Spring, oil)
Eyepiece tube	Binocular(Inclination of 30°)
Eagus systems	Coaxial coarse/fine focus, with tensional adjustable and up stop minimum division of
Focus system	fine focusing: 2μm.
Nosepiece	Quintuple (Backward ball bearing inner locating)
Stage	Double layer mechanical (Size:160mm x 140mm, Move Range: 75mm x 50mm)
Abbe condenser	N.A.1.25 Rack & pinion adjustable
Filter	Blue filter
Filter	Frosted filter
Collector	For halogen lamp
Light source	12V 50W Halogen lamp with brightness control.





BM-28 Biological Microscopes



BM-28 biological microscopes are equipped with infinity plan achromatic objectives and wide field eyepieces. They have beautiful sculpt and provide clear image, wide field, convenience operation. They can be used for biology medicine agriculture and industry area widely. They are the ideal instrument in medical treatment, teaching demonstration and scientific research.

Specification list:

opecification list.		
Model	BM-28	
Eyepiece	Wide Field WF10X (Field Number: Φ22mm)	
	PL 4X/0.10 Working Distance: 19.8mm	
Objective	PL 10X/0.25 Working Distance: 5.0mm	
Objective	PL 40X/0.65 (Spring) Working Distance: 0.66mm	
PL 100/1.25 (Spring, Oil) Working Distance: 0.36mm		
Eyepiece	Trinocular Tube, Inclination 30o	
Nosepiece	Quadruple (Backward ball bearing inner locating)	
Focusing System	Coaxial coarse/fine focusing system with tension adjustable and up stop	
Focusing System	Minimum division of fine focusing is 2 μm.	
Transmitted Illumination 6V, 20W Halogen Lamp		
System	Abbe Condenser NA. 1.25, Rack and Pinion Adjustable	
System	Attached Blue Filter & Frosted Glass	
Stage	Double Layer Mechanical Stage Moving Range: 75 x 50mm	
Stage	Overall Size: 193 x 155mm	

Optional Accessories:

Optional recessories.				
Eyepiece	Dividing Eyepiece (Field Number: Φ22mm, 0.10mm/Div.)			
Ohiostico	Infinity Plan Achromatic Objective PL 20X/0.40 Working Distance: 8.8mm			
Objective	Infinity Plan Achr	Infinity Plan Achromatic Objective PL 60X/0.85 Working Distance: 0.25mm		
	Eyepiece	Centering Telescope		
		Infinity Phase Contrast Plan Achromatic 10X/0.25 PHP		
Phase Contrast Unit	Objective	Infinity Phase Contrast Plan Achromatic 20X/0.40 PHP		
Phase Contrast Offit	Objective	Infinity Phase Contrast Plan Achromatic 40X/0.65 PHP (Spring)		
		Infinity Phase Contrast Plan Achromatic 100X/1.25 PHP (Spring, Oil)		
	Sliding Phase Contrast Condenser			
Dolorizina System	Polarizer 3600 Rotatable Stage			
Polarizing System	Analyzer	Sliding Type		
Filter	Blue Filter / Green Filter			
CCD Adapter	0.4X 0.5X	0.4X 0.5X 1X 0.5X With Divided Scale (0.10mm/Div.)		
Illumination System	6V, 30W Halogen Lamp			





BM-30 Biological Microscope



BM-30 series biological microscope is equipped with plan achromatic objectives and wide field eyepieces. It provides clear image, wide field, convenience operation. It can be used for biology medicine agriculture and industry area widely. It is the ideal instrument in medical treatment, teaching demonstration and scientific research.

Features:

- ♦ With wide field eyepieces and plan achromatic objectives, the field of view is widely and clear
- *Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ◆Using Kohler illumination with 6V 20W halogen lamp with brightness control

Model	BM-30A	BM-30B	
Eyepiece	WF10X(Φ20mm)		
	Plan achromatic PL 4X/0.10	Plan achromatic PL 4X/0.10	
	Plan achromatic PL 10X/0.25	Plan achromatic PL 10X/0.25	
Objective		Plan achromatic PL 20X/0.40	
	Plan achromatic PL 40X/0.65 (Spring)	Plan achromatic PL 40X/0.65(Spring)	
	Plan achromatic PL 100X/1.25 (Spring, oil)	Plan achromatic PL 100X/1.25(Spring, oil)	
Eyepiece tube	Binocular (Inclination of 30°)		
Focus system	Coaxial coarse/fine focus, with tension adjustable and up stop minimum division of fine		
rocus system	focusing: 2µm.		
Nosepiece	Quadruple(Backward ball bearing inner	Quintuple(Backward ball bearing inner	
Nosepiece	locating)	locating)	
Stage	Double layer mechanical (Size:210mmX140mm, Move range: 75mmX50mm)		
Abbe condenser	N.A.1.25 Rack & pinion adjustable		
Filter	Blue filter		
rittei	Frosted filter		
Collector	For halogen lamp		
Light source	6V 20W Halogen lamp with brightness control		





BM-32A Biological Microscopes

BM-32A biological microscopes are equipped with infinity plan achromatic objectives and wide field eyepieces. They have beautiful sculpt and provide clear image, wide field, convenience operation. They can be used for biology medicine agriculture and industry area widely. They are the ideal instrument in medical treatment, teaching demonstration and scientific research.

Features:

- Equipped with wide field eyepieces and infinity plan achromatic objectives, the field of view is widely and clear
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ◆ Maximal movement of stage is 30mm
- ◆ Using Kohler illumination with Integrated field diaphragm and 6V30W halogen lamp, adding radiator and brightness control.
- Trinocular can be observation for eyepieces and microphotography in 100% light flux, suits for low illuminance microphotography.



specification List:	1		
Model	BM-32A		
Eyepiece	WF10X(Φ22n	nm)	
	Infinity plan a	chromatic objective	
	PL 4X/0.10(W	/ork distance): 19.8 mm	
Objective	PL 10X/0.25(V	Work distance): 5.0mm	
	PL 40X/0.65(S	Spring)(Work distance): 0.66 mm	
	PL 100X/1.25(Spring, oil)(Work distance): 0.36mm		
Eveniese tube	L3200HBG	Binocular (Inclination of 30°)	
Eyepiece tube	L3200HTG	Trinocular(Inclination of 30°)	
Focus system	Coaxial coarse/fine focus, with tension adjustable and up stop minimum division of fine focusing: $2\mu m$.		
rocus system			
Nosepiece	Quadruple(Backward ball bearing inner locating)		
Stage	Double layer mechanical (Size:210mmX140mm, Move range: 75mmX50mm)		
Abbe condenser	N.A.1.25 Rack & pinion adjustable		
Filter	Blue filter		
THICI	Frosted filter		
Collector	For halogen lamp (With field diaphragm)		
Light source	6V 30W Halog	gen lamp with brightness control	



PM-1 Series Polarization Microscopes

PM-1 series polarization microscopes are utilized polarize light to observe and research the matter which have double refraction features, the user can make single polarizing view, orthogonal polarizing view, cone light view. They are applied in geology, chemicals, physic and leechdom fields. They are also widely used to observe the crystal of liquid macromolecule polymer, biomedical polymer and liquid crystal. They are the ideal instruments for scientific research and universities teaching demo.

Features:

- ◆Equipped with strain-free plan achromatic objectives or infinity strain-free plan achromatic objectives and wide field eyepiece
- ◆ Nosepiece can adjust the center of objective
- ♦ Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ◆ Take-down style polarizer, 360°rotatable, have 0,90,180,270 four scale, located down the aperture diaphragm
- ◆ Impellent style analyzer, 360° rotatable, push in / out from optical path conveniently
- ◆Revolving round stage, 360°part scale and graduated in 1°increments, minimum resolution 6' when using vernier scale, center adjustable and with tightener
- ◆Illumination with 6V20W halogen lamp, adjustable brightness

Model	PM-1	PM-1A	
Eyepiece	Wide field WF10X(Φ18mm)		
	Division eyepiece 10X(Φ18mm) 0.1mm/Div		
Objective	Strain-free plan achromatic PL 4X/0.10	nfinity strain-free plan achromatic PL	
	Strain-free plan achromatic PL 10X/0.25	nfinity strain-free plan achromatic PL	
	Strain-free plan achromatic PL 40X/0.65(Spring) In	nfinity strain-free plan achromatic PL	
	Strain-free plan achromatic PL II	nfinity strain-free plan achromatic PL	
Eyepieces tube	Trinocular, ,inclination of 30°,100% image light for p	photography capable	
Intermediate	360° rotatable with scale and	d minimum vernier	
attachment	Bertrand lens ,impellent style	e, center adjustable	
	λ , $\lambda/4$ Compensator		
	λ/4 Compensator		
	Quarts wedge compensator		
Focus system	Coaxial coarse/fine focus system, with tension adjus-	stable and limit stopper, minimum division	
Nosepiece	Quadruple (Frontward ball bearing inner locating)		
Stage	Rotatable stage, Diameter Φ150mm, 360° graduated (in 1° increments), minimum retardation		
Abbe condenser	NA.1.25 Rack & pinion adjustable		
Polarizer	360° rotatable, with four scale is 0°,90°,180°, 270°		
Filter	Frosted filter		
	Blue filter		
Collector	For illumination with halogen lamp (With field diaphragm)		
Illumination unit	With polarizer,6V 20w, halogen lamp, adjustable brightness		





Optional accessories:

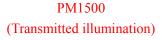
Optional accessorie	20.	
Name	Sort/Technique parameter	NO.
Eyepiece	Wide field WF16X(Φ11mm)	1051016
Eyepieces tube	Binocular, Inclination of 30°	11009
	Strain-free plan achromatic PL 5X/0.12	2810105
	Strain-free plan achromatic PL 20X/0.40	2810120
Objective	Strain-free plan achromatic PL 60X/0.85 (Spring)	2810160
	Infinity strain-free plan achromatic PL 4X/0.10	2820104
	Infinity strain-free plan achromatic PL 20X/0.40	2820120
Nosepiece	Quintuple(Frontward ball bearing inner locating)	32004
E14	Green filter	115002
Filter	Yellow filter	115003
	0.4X	810001
CCD - lantan	0.5X	810004
CCD adapter	1X	810002
	0.5X with dividing 0.1mm/Div	810003
	DV-1 With USB & video output	800001
Camera	DV-2 With USB output	800003
	DV-3 With video output	800005
	2.5X/4X Change over photograph attachment with 10X viewing eyepiece	840001
Photo unit	4X Focusing photograph attachment	840002
	MD Adapter	840003
	PK Adapter	840004
Digital camera adapter	CANON(A610,A620,A630,A640)	820001





PM1500 Series Transmitted and Reflected Polarization Microscopes







PM1503 (Reflected illumination)



PM1530 (Transmitted & reflected illumination)

PM1500 series transmitted and reflected polarization microscopes are utilized polarize light to observe and research the matter which have double refraction features, the user can make single polarizing observation, orthoscopic observation, conescopic observation. They are applied in geology, chemicals, physic and leechdom fields. They are also widely used to observe the crystal of liquid macromolecule polymer, biomedical polymer and liquid crystal. They are the ideal instruments for scientific research and universities teaching demo.

Features:

- ◆ Transmitted, Reflected, transmitted/reflected illumination can be choosn
- ◆ Equipped with strain-free plan objectives(center adjustable) and wide field eyepiece
- ♦ Coaxial coarse/fine focus system with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ◆ Rotatable stage, 360° graduated in 1° increments, minimum retardation resolution 6' center adjustable and with tightened-Stage vertical effective movement up to 30mm
- ◆ Wide voltage range power supply (85-265V 47-60HZ), 6V20W halogen lamp, brightness adjustable



POLARIZATION MICROSCOPE



Specification list:

Jeenneauon 1	1500						
Model		PM1500	PM1530	PM1503			
IVI	odei	(Transmitted illumination)	Transmitted illumination) (Transmitted & reflected illumination)				
Eyepiece		Wide field WF10X (Φ18mm)					
		Division eyepiece 10X (Φ18mm) 0.10mm/div					
		Strain-free plan achromatic objective Strain-free plan achromatic objective (no cover glass) PL 5X/0.12					
		(cover glass:0.17mm) PL 4X/0.10					
		Strain-free plan achromatic objective Strain-free plan achromatic objective (no cover glass) PL L 10X/0.25					
		(cover glass:0.17mm)PL 10X/0.25					
Objective (center	adiustable)	Strain-free plan achromatic	Strain-free plan achromatic objective (no cover glass)				
Objective (center	adjustable)	objective(cover glass:0.17mm) PL 40X/0.65 (spring)	PL L40X/0.6	60 (spring)			
		Strain-free plan achromatic	Strain-free plan achromatic	objective (no cover glass)			
		objective(cover glass:0.17mm) PL 60X/0.85 (spring)	PL L 60X/0.75 (spring)				
Reflected	Polarizer		Rotata	able			
illumination	Illumination		6V 20w, halogen lamp,	adjustable brightness			
	Polarizer	360°rotatable, have 0,90,180,270 four scale					
Transmitted	Collector	For halogen lamp illumination					
illumination	Illumination	6V 20w, halogen lamp, adjustable brightness					
illumination	Abbe condenser	N.A. 1.25 Rack & pinion adjustable	A. 1.25 Rack & pinion adjustable				
Eyepieces tube		Trinocular, Inclination of 30°, can send 100% of the image light to top photography port					
		Built-in analyzer, can switch to normal obse	erve or polarizing observe freely ,90° rotatable	with scale, minimum retardation resolution			
		12'					
Intermediate atta	chment	Bertrand lens , impellent style , center adjustable					
micrinediate atta	CHITICHE	λ compensator					
		λ/4 compensator					
		Quarts wedge compensator					
Nosepiece		Quadruple (Frontward ball bearing inner locating)					
Focus system		Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum division of fine focusing: 2µm					
Stage		Rotatable stage, Diameter Φ18150mm, 360° graduated (in 1° increments), minimum retardation resolution 6' center adjustable and					
		with tightener					

Optional accessories:

Name	Sort/Technique parameter	NO.			
Eyepiece	Wide field WF16X (Φ11mm)				
	Strain-free plan achromatic objective(cover glass:0.17mm) PL 20X/0.40	2810320			
	Strain-free plan achromatic objective(cover glass:0.17mm) PL 100X/1.25 (Oil ,spring)	2810311			
Objective	Strain-free plan achromatic objective(no cover glass) PL L 20X/0.40	2850320			
(center adjustable)	Strain-free plan achromatic objective(no cover glass) PL L 50X/0.70	2850350			
	Strain-free plan achromatic objective(no cover glass) PL L 80X/0.80	2850380			
	Strain-free plan achromatic objective (Dry) (no cover glass) PL L 100X/0.85 (Spring)	2850311			
Nosepiece	Quadruple (Frontward ball bearing inner locating) adjust the center of objective	31007			
Slide moving holder	Moving range: 30mmX25mm	116202			
	0.4X	810001			
CCD . I	0.5X	810004			
CCD adapter	iX	810002			
	0.5X with dividing 0.1mm/Div	810003			
	DV-1 With USB & video output	800001			
Camera	DV-2 With USB output	800003			
	DV-3 With video output	800005			
	2.5X/4X Change over photograph attachment with 10X viewing eyepiece	840001			
	4X Focusing photograph attachment	840002			
Photo unit	MD Adapter	840003			
	PK Adapter	840004			
Digital camera adapter	CANON (A610,A620,A630,A640)	820001			





PM3230 Transmitted & Reflected Polarizing Microscope



PM3230 transmitted & reflected polarizing microscope is utilized polarizing light to observe and research the matter which have double refraction features, the user can make single polarizing observation, orthogonal observation, conoscope observation. It is applied in geology, chemicals, physic and leechdom fields, widely used to observe the crystal of liquid macromolecule polymer, biomedical polymer and liquid crystal. It is the ideal instrument for scientific research and universities teaching demo. Features

Features:

- ◆ Adopt infinity optical system and modularization function design.
- ◆ Infinity long W.D plan objectives, the field of view is widely and clear.
- Wide-field plan eyepieces: field number Φ22mm.
- Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2µm.
- ◆ Polarizing unit can be move out or into optical path, polarizer and analyzer can be rotated from 0° to 360°.
- ◆ Rotatable stage, 360° graduated in 1° increments, minimum retardation resolution 6' center adjustable and with tightener£¬Stage vertical effective movement up to 30mm
- ◆ Wide voltage range power supply (85-265V 50/60Hz), 6V30W halogen lamp, brightness adjustable.
- ◆ Trinocular can be observation for eyepieces and microphotography in 100% light flux, suits for low illuminance microphotography.



Specification list:

Model	PM-3230				
Eveniege	Wide field WF10X(Φ22mm)				
Eyepiece	Dividing eyepiece(field number:Φ22mm) 0.10mm/Div				
	Strain-free plan achromatic objective (no cover glass)				
	PL L5X/0.12 (Work distance): 26.1 mm				
Objective	PL L10X/0.25 (Work distance): 20.2 mm				
	PL L40X/0.60 (spring) (Work distance): 3.98 mm				
	PL L60X/0.70£ (spring) (Work distance): 3.18 mm				
	6V30W halogen, brightness enable control.				
Reflected illuminating system	Polarizer can be rotated 360°.				
	Analyzer can be rotatable 360° with scale and minimum vernier				
	Integrated field and aperture diaphragm.				
Nosepiece	Quadruple (the center of objective is adjustable)				
Intermediate attachment	Puller type bertrand lens and center adjustable.				
Compensator	λ , λ/4 and quarts wedge compensator.				
Eyepiece tube	Trinocular is inclined 30° and enable to shoot in 100% light flux.				
Focus system	Coaxial coarse/fine focus with tension adjustable and up stop device,				
Focus system	minimum division of fine focusing: 2µm.				

Optional accessories:

optional accessories.				
Name	Sort/Technique parameter	NO.		
	Strain-free plan achromatic objective (no cover glass)			
Infinity objective	PL L 20X/0.40(Work distance): 8.80mm			
	PL L50X/0.70 (spring) (Work distance): 3.68 mm			
	PL L80X/0.80 (spring) (Work distance): 1.25 mm			
	PL L100X//0.85 (spring) (Work distance): 0.4 mm			
Nosepiece	Quintuple(Backward ball bearing inner locating)			
Slide moving holder	g holder Moving range: 30mmX25mm			
	0.4X			
CCD adapter	0.5X			
CCD adapter	1X			
	0.5X with dividing 0.1mm/Div			
	DV-1 Video output (380/520 TV line) USB output (0.42 M pixel)			
Camera	DV-2 With USB output (1.3M,2.0M,3.0M pixel)			
	DV-3 With video output (380/520 TV line)			
Digital camera adapter	CANON(A570,A610,A620,A630,A640,A650,EF) NIKON(F)			
Digital Camera adapter	DV-9 (9 M pixel)			





FLM3001 Fluorescent Microscope



FLM3001 fluorescent microscope is used for fluorescence microscopy and transmitted field observation. It is equipped with infinity plan achromatic objectives and wide field eyepieces, have clear picture and wide view field. It is the ideal instrument in biology, cytology, oncology, genetics, immunology etc. It also can be used in scientific research, universities, medical treatment, epidemic prevention etc.

Features:

- ◆ With wide field eyepieces and infinity plan achromatic objectives, the field of view is widely and clear
- ♦ Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm
- ◆20W 6V halogen lamp with electronic dimmer

Specification list:

Model	FLM3001					
Eyepiece	Wide field WF10X(φ20mm)					
	Infinity plan achromatic Objectives PL 4X/0.10					
Objective	Infinity plan achromatic Objectives PL 10X/0.25					
Objective	Infinity plan achromatic Objectives PL 40X/0.65(Spring)					
	Infinity plan achromatic Objectives PL 100X/1.25(Spring, oil)					
Eyepiece tube	Trinocular (Inclination of 30°)					
Focus system	Coaxial coarse/fine focus, with tensional adjustable and up stop minimum division of					
rocus system	fine focusing: 2μm.					
Nosepiece	Quadruple(Backward ball bearing inner locating)					
Stage	Double layer mechanical (Size:210mmX140mm, Move range: 75mmX50mm)					
Abbe condenser	N.A.1.25 Rack & pinion adjustable					
Filter	Blue filter					
THE	Frosted filter					
Collector	For halogen lamp					
Light source	6V 20W Halogen lamp ,adjustable brightness					
	Mercury lamp house 100W/DC					
	Power supply unit:AV:110V or 220V					
Reflected fluorescence system	Fluorescence filter system B exciton wavelength:420~485nm					
Reflected fluorescence system	Fluorescence filter system G exciton wavelength:460~550nm					
	Fluorescence filter system UV exciton wavelength:330~400nm					
	Fluorescence filter system V exciton wavelength:395~415nm					

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FLUORESCENT MICROSCOPE



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Optional accessories:

Name	Sort/Technique parameter			
Evaniana	WF16X(φ11mm)			
Eyepiece	Dividing 10X(c	o20mm),0.1mm/Div	1121010	
Objectives	Infinity plan ach	romatic 20X/0.40	2060120	
Eyepiece tube	Binocular(Inclin	ation of 30°)	11104	
Nosepiece	Quintuple(Backy	ward ball bearing inner locating)	32002	
Filter	Green filter		115002	
riitei	Yellow filter		115003	
	Eyepiece	Centering telescope	110002	
		Infinity phase contrast plan achromatic 10X/0.25 PHP	2470110	
		Infinity phase contrast plan achromatic 20X/0.40 PHP	2470120	
	Objectives	Infinity phase contrast plan achromatic 40X/0.65 PHP(Spring)	2470140	
Phase contrast unit		Infinity phase contrast plan achromatic 100X/1.25 PHP(Spring, oil)	2470111	
	(PH-I) Turnplate phase contrast condenser			
	(PH-II) Turnplate phase contrast condenser			
	Flashboard phase contrast condenser			
	Pull board phase contrast condenser			
	0.4X			
CCD adapter	0.5X			
CCD adapter	1X			
	0.5X with dividing 0.1mm/Div			
	With USB & video output			
Camera	With USB output			
	With video output			
Digital camera adapter	CANON digital	CANON digital camera adapter(A610,A620,A630,A640)		
	2.5X/4X Change over photograph attachment with 10X viewing eyepiece			
Photograph unit	4X Focusing photograph attachment			
	MD Adapter			
	PK Adapter			





FLM3201 Fluorescent Microscope



FLM3201 fluorescent microscope is used for fluorescence microscopy and transmitted bright field observation. It is equipped with no magnification spherochromatic aberration infinity plan achromatic fluorescent objectives and wide field eyepieces, has clear and high contrast picture in your wide view field. The main body design meets with the ergonomics needs and makes you feel comfortable and relaxed in process of operation. It is the ideal instrument in biology, cytology, oncology, genetics, immunology etc. It also can be used in scientific research, universities, medical treatment, epidemic prevention etc.

Features:

- ◆ Adopt infinity optical system and modularization function design.
- ◆ Equipped with infinity plan achromatic fluorescent objectives, enable obtain more clearer and brighter image.
- ◆ Wide-field plan eyepieces: field number Ф22mm.
- Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum division of fine focusing: 2 μ m
- ◆ Transmitted illumination system: Integrated field diaphragm and 6V30W halogen lamp; Adding radiator and brightness control.
- ◆ Epi-illumination system: 100W/DC mercury lamp. The voltage of power supply is 220V or 110V.
- ◆ Trinocular can be observation for eyepieces and microphotography in 100% light flux, suits for low illuminance microphotography.



FLUORESCENT MICROSCOPE



Specification list:

Model	FLM3201				
Eyepiece	Wide field WF10X(φ22mm)				
	Infinity plan achromatic objectives				
	PL 4X/0.10 (Work distance): 19.8 mm				
Objective	PL 10X/0.25 (Work distance): 5.0 mm				
	PLF L40X/0.85(spring)(Work distance): 0.42mm(No magnification spherochromatic aberration)				
	PL 100X/1.25(Spring, oil) (Work distance): 0.36mm				
Eyepieces tube	Trinocular, Inclination of 30°.				
Epi-fluorescent	Power supply unit, 110V or 220V can be selected.				
illumination	Mercury lamp is 100W/DC				
system	Turnplate Epi-fluorescence illuminator (UV.V.B.G filters system)				
Focus system	Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum division of				
Nosepiece	Quintuple(Backward ball bearing inner locating)				
Stage	Double layer mechanical (Size:210mmX140mm,movingrange:75mmX50mm)				
Transmitted	Abbe condenser NA.1.25 Rack & pinion adjustable				
illumination	Blue filter and Ground glass				
system	Collector for halogen lamp illumination and integrated field diaphragm				
System	6V 30W halogen lamp, adjustable brightness				

Optional accessories:

optional accessories:			
Name	Sort/Technique parameter	NO.	
Eyepiece	Dividing eyepiece(field number: φ22mm) 0.10mm/Div	1122010	
	Infinity plan achromatic objective PL 60X/0.80(Work distance): 0.46 mm	2060160	
Objective	Infinity plan achromatic fluorescent objective	2610110	
	PL FL10X/0.35(Work distance): 2.37 mm	2610110	
Filter	Green filter	115002	
riitei	Yellow filter	115003	
	0.4X	810001	
CCD adapter	0.5X	810004	
CCD adapter	1X	810002	
	0.5X with dividing 0.1mm/Div	810003	
	DV-1 Video output(380/520 TV line) USB output(0.42 M pixel)	800001	
Camera	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	





FLM3201-LED Fluorescent Microscope



FLM3201-LED fluorescent microscope is used for fluorescence microscopy and transmitted field observation. It is equipped with no magnification spherochromatic aberration infinity plan achromatic fluorescent objectives and wide field eyepieces, has clear picture and wide view field. The transmitted and epi-fluorescent illumination light source are high power & brightness LED, but power consumption is lower and use life longer, very good radiating heat effect. Safely and comfortably using the instrument, the cost of use and maintenance are more lower. It is the ideal instrument in biology, cytology, oncology, genetics, immunology etc. It also can be used in scientific research, universities, medical treatment, epidemic prevention etc.

Features:

- ◆Adopt infinity optical system and modularization function design.
- ◆ Equipped with infinity plan achromatic fluorescent objectives, enable obtain more clearer and brighter image.
- ♦ Wide-field plan eyepieces: field number Φ22mm.
- ◆Coaxial coarse/fine focus system, with tension adjustable and limit stopper , minimum division of fine focusing: 2µm
- ◆Transmitted illumination: 3W high brightness white LED, brightness adjustable.
- ◆Epi-illumination: 3W high brightness monochromatic LED, enable changing for different wave length LED, but the brightness can't be adjustable.
- ◆Trinocular can be observation for eyepieces and microphotography in 100% light flux, suits for low illuminance microphotography.
- ◆Wide voltage range power supply (85-265V 50/60Hz).



FLUORESCENT MICROSCOPE



Specification list:

Model	FLM3201-LED		
Eyepiece	Wide field WF10X(φ22mm)		
	Infinity plan achromatic objectives		
	PL 4X/0.10 (Work distance): 19.8 mm		
Objective	PL 10X/0.25 (Work distance): 5.0 mm		
	PLF L40X/0.85 spring (Work distance): 0.42 mm (No magnification spherochromatic		
	PL 100X/1.25(Spring, oil) (Work distance): 0.36mm		
Eyepieces tube	Trinocular, Inclination of 30°.		
Epi-fluorescent illumination	3W high brightness LED. Enable selecting monochromatic or bichromatic LED for light source,		
system	Fluorescence filters: B(Blue) and G(Green).		
Focus system	Coaxial coarse/fine focus system, with tension adjustable and limit stopper, minimum division		
Nosepiece	Quadruple(Backward ball bearing inner locating)		
Stage	Double layer mechanical (Size:210mmX140mm,movingrange:75mmX50mm)		
Transmitted illumination	Abbe condenser NA.1.25 Rack & pinion adjustable		
system	Blue filter and Ground glass		
	Collector for LED illumination and integrated field diaphragm		
	3W high brightness white LED, brightness adjustable.		

Optional accessories:

Name	Sort/Technique parameter	NO.	
Eyepiece	Dividing eyepiece(field number (φ22mm) 0.10mm/Div	1122010	
	Infinity plan achromatic objective PL 60X/0.80(Work distance): 0.46 mm	2060160	
Objective	Infinity plan achromatic fluorescent objective	2040440	
	PL FL10X/0.35(Work distance): 2.37 mm	2610110	
Nosepiece	Quintuple(Backward ball bearing inner locating)	32002	
Filter	Green filter	115002	
riilei	Yellow filter	115003	
LED	Violet(390nm~400nm)	1	
LED	Ultraviolet(360nm~370nm)	1	
Fluorescent filters	V(Violet)	1	
Fluorescent illers	UV(Ultraviolet)	1	
	0.4X	810001	
CCD adapter	0.5X	810004	
CCD adapter	1X	810002	
	0.5X with dividing 0.1mm/Div	810003	
	DV-1 Video output(380/520 TV line) USB output (0.42 M pixel)	800001	
Camera	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	





XTC SERIES STEREO MICROSCOPES









XTC series stereo microscopes are a kind of positive image microscope; they have long working distance, clear and smooth image quality,

wide field, convenience operation etc. They can be used for culture and education, scientific research, farming and forestry, electronics and

precision machine industries widely.

Features:

- ◆Eyepiece field is wide and clear.
- ◆Equipped with two pairs of objectives
- ◆Optical tube, 45° inclination. can be rotated 360°, interpupillary distance and the left eyepiece tube diopter can be adjusted,interpupillary
- ♦ distance adjustable range from 55mm~75mm.

Specification list:

pecification list.										
Model	***		*		***		1000			
	XTC200A	XTC200B	XTC200C	XTC200D	XTC300A	XTC300B	XTC300C	XTC300D		
Eyepiece		WF10X(φ20mm)			WF10)	X(φ20mm)			
Objective	1X	,3X	2X	.,4X	1X,3X		2X,4X			
Total magnification	10X	,30X	20X	,40X	10X,30X		20X,40X		20X,40X	
Visual field	φ20~φ	6.7mm	φ10~	φ5mm	φ20~φ6.7mm φ10~φ5mr		φ5mm			
Working distance		88m	88mm			8	8mm			
Vertical movement	88mm <h<265mm< td=""><td colspan="2">88mm<h<130mm< td=""><td>88mm<h< td=""><td>n<265mm</td><td>88mm<</td><td>n<130mm</td></h<></td></h<130mm<></td></h<265mm<>		88mm <h<130mm< td=""><td>88mm<h< td=""><td>n<265mm</td><td>88mm<</td><td>n<130mm</td></h<></td></h<130mm<>		88mm <h< td=""><td>n<265mm</td><td>88mm<</td><td>n<130mm</td></h<>	n<265mm	88mm<	n<130mm		
Base size		215X160	0X60mm			215X1	60X60mm			
Reflected light	12V10W	halogen lamp	with reflecto	or cup and	12V10W halogen lamp with reflector cup and			or cup and		
source	adjustable brightness			adjustable brightness						
Transmitted light source:	1			12V10W I	nalogen lamp	and adjustabl	e brightness			

Optional accessories:

Name	Sort/Technique parameter	NO.
Eyepiece	Divisional wide field eyepiece 10X(φ20mm) 0.1mm/Div	1111010

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XTD series stereo microscopes



XTD series stereo microscopes are a kind of positive image microscope; they have long working distance, clear and smooth image quality, wide field, convenience operation etc. They can be used for culture and education, scientific research, farming and forestry, electronics and precision machine industries widely.

Features:

- ◆Eyepiece field is wide and clear.
- ◆XTD-100、XTD-200、XTD-300 series equipped with two pairs of objectives;
- ◆ Optical tube, 45° inclination. can be rotated 360°, interpupillary distance and the left eyepiece tube diopter can be adjusted

Specification list:

Model						
	XTD-100A	XTD-100B	XTD-200A	XTD-200B	XTD-300A	XTD-300B
Eyepiece	WF10X(φ20mm)	WF10X	((φ20mm)	WF10X	((φ20mm)
Objective	1X,2X	2X,4X	1X,2X	2X,4X	1X,2X	2X,4X
Total magnification	10X,20X	20X,40X	10X,20X	20X,40X	10X,20X	20X,40X
Visual field	φ20, φ10	φ10, φ5	φ20, φ10	φ10, φ5	φ20, φ10	φ10, φ5
Work distance	501	mm	50mm		50mm	
Vertical effective movement	50mm <l< td=""><td>H<95mm</td><td>50mm<</td><td>H<115mm</td><td>50mm<</td><td>H<115mm</td></l<>	H<95mm	50mm<	H<115mm	50mm<	H<115mm
Base size	170X120	0X21mm	170X12	20X54mm	190X120X55mm	
reflected light	1	/ 6V8W hald		logen lamp	6V8W ha	logen lamp
transmitted light	1	1	1	1	6V8W ha	logen lamp

Optional accessories:

Name	Sort/Technique parameter	NO.
Eyepiece	Divisional wide field eyepiece 10X(φ20mm 0.1mm/Div	1111010

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XTL series stereo zoom microscopes



XTL series stereo zoom microscopes are a kind of positive image microscope, they are adopted horizontal knob to zoom control, they have

long working distance, clear and smooth image quality, wide field, convenience operation etc. They can be used for culture and education, scientific

research, farming and forestry, electronics and precision machine industries widely.

Features:

- Eyepieces field is wide and clear.
- Objectives range of zoom magnification 0.7X~4.5X
- Optical tube, 45° inclination. can be rotated 360°,
- interpupillary distance and eyepieces diopter can be adjusted, interpupillary distance adjustable range from 55mm~75mm.

	Eyepieces	WF10X (φ20mm)
	Objective	Objectives range of zoom magnification 0.7X~4.5X
Ī	Total magnification	7X~45X
	Visual field	φ28.5~φ4.5
Ī	Working distance	88mm

Model			
	XTL100A	XTL100B	XTL100C
	XTL100AT	XTL100BT	XTL100CT
Vertical movement	25mm≤h<	265mm	25mm≤h<240mm
Table	1		42X42(mm)
Base size	240X180X25mm	300X240X25mm	240X180X25(mm)



Model	***	. 2.0	***	
	XTL200	XTL200A	XTL-300	XTL-300A
	XTL200T	XTL200AT	XTL-300T	XTL-300AT
Vertical movement	25mm≤h<265mm	25mm≤h<130mm	25mm≤h<265mm	25mm≤h<130mm
Base size	215X160X60mm		215X160X60mm	
Reflected light	12V10W halogen lamp		12V10W halogen lamp	
Transmitted light	1		12V10W halogen lamp	

Model					
	XTL400	XTL500	XTL600A	XTL600B	XTL600C
	XTL400T	XTL500T	XTL600AT	XTL600BT	XTL600CT
Vertical movement	35≤h<215	35≤h<265	35≤h<265	35≤h<265	35≤h<240
table range			1		42X42(mm)
Base size	260X290X55mm	300X240X25	240X180X25	300X240X25mm	240X180X25mm
Reflected light	12V10W	1	1	1	1
Transmitted light	12V10W	1	1	1	1

Optional accessories:

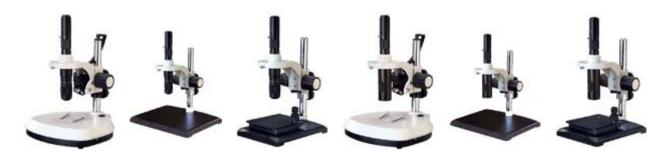
Name	Sort/Technique parameter	NO.
	Wide field eyepiece WF10X(φ22mm)	1062010
	Wide field eyepiece WF15X(φ15mm)	1061015
Evenione	Wide field eyepiece WF20X(φ12mm)	1060020
Eyepiece	Wide field eyepiece WF25X(φ9mm)	1060025
	Divisional wide field eyepiece 10X(φ20mm) 0.1mm/Div	1111010
	Divisional wide field eyepiece 10X(φ22mm) 0.1mm/Div	1112010
Ontical hady	Trinocular body	602003
Optical body	Trinocular body	602004
	0.5X W.D.137mm	621002
	0.75X W.D.103mm	622002
Additional objective	1X W.D.88mm	623001
	1.5X W.D.48mm	624002
	2X W.D.29mm	625002
Illumination	8W/90~265V Annular LED illumination W.D.:35~200mm	630002
illumination	5W,110V /220V Annular fluorescent illumination	630003
CCD adapter	0.5X	813004
CCD adapter	1X	813005
	DV-1 With USB & video output	800001
Camera	DV-2 With USB output	800003
	DV-3 With video output	800005

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XTM series monocular zoom microscopes



XTM series monocular zoom microscopes, they have long working distance, clear and smooth image quality, convenience operation etc.

They can be used for inspection of electro-industry product line and printed circuit board.

Feature:

- Standard C mount design, connecting the camera directly.
- Digital & video camera, CCD camera and photography eyepiece can be chosen.
- •XTM-100 series are equipped with outside rotating optical body.
- •XTM-200 series are equipped with inside rotating optical body, annular LED illumination can be chosen.
- Objective range of zoom magnification 0.7X~4.5X.

Model				
	XTM-100A	XTM-100B	XTM-100C	
CCD adapter	1X			
Objective	Objectives ran	ge of zoom magnificatior	n 0.7X~4.5X	
Working distance		88mm		
Vertical effective movement	10mm≤h<215mm	10mm≤h<265mm	10mm≤h<240mm	
table move	1	1	42X42(mm)	
Base size	260X290X55mm	300X240X25mm	240X180X25(mm)	
Reflected light source	12V10W halogen lamp		1	
Transmitted light source:	12V10W halogen lamp		1	





Model	XTM-200A	XTM-200B	XTM-200C	
CCD adapter		1X		
Objective	Objectives range of zoom magnification 0.7X~4.5X			
Working distance		88mm		
Vertical effective movement	10mm≤h<215mm	10mm≤h<265mm	10mm≤h<240mm	
table move	1	1	42X42(mm)	
Base size	260X290X55mm	300X240X25mm	240X180X25(mm)	
Reflected light source	12V10W hal	ogen lamp	1	
Transmitted light source:	12V10W halogen lamp		1	

Optional accessories:

Name	Sort/Technique parameter	NO.
Evaniana	Divisional wide field eyepiece 10X(φ18mm) 0.1mm/Div	1021010
Eyepiece	Divisional wide field eyepiece 10X(φ20mm) 0.1mm/Div	1111010
Eyepiece adapter	For divisional wide field eyepiece10X(φ20mm)	830008
	0.3X W.D.249mm	620001
	0.5X W.D.152mm	621001
Additional objective	0.75X W.D.113mm	622001
	1.5X W.D.55.5mm	624001
	2XW.D.40.7mm	625001
Illumination	nation 8W/90¡«265V Annular LED illumination W.D.:35~200mm	
CCD adapter	0.35X	813001
CCD adapter	0.5X	813002
	Photography eyepiece with USB out	1096001
	Photography eyepiece with Video out	1108001
Camera	DV-1 With USB & video output	800001
Callicia	DV-2 With USB output	800003
	DV-3 With video output	800005
	CCD Camera	800007