



Opto Edu M12.5850 Biological Motorized Microscope Bf Xyz

Our Product Introduction

for more products please visit us on cnoec.com

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: M12.5850
- Minimum Order Quantity: 1 pc
- Price: FOB \$1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month



Product Specification

- Head: 30° Inclined, Invert Image Infinity Gemel Trinocular Head
- Eyepiece: High Eyepoint Plan PL10x/25mm, Diopter Adjustable
- Nosepiece: BF 6 Holes, With Socket For DIC Slide & Polaring Analyzer Slide
- Objective: Infinity Plan Semi-APO Fluorescent Objective
- Working Stage: XYZ Motorized Working Stage, 2-Phase Stepping Motor
- Focusing: Low-Position Coaxial Coarse & Fine Adjustment
- Highlight: **opto edu motorized microscope, biological motorized microscope, xyz motorised microscope**



Product Description

MAXCOPE 3D Full Auto Biological Microscope

The new M12.5850 Research-grade Biological Microscope has upgraded to XY motorized working stage model, combined with the powerful Maxscope 2D/3D software, which integrates a number of firsts. From appearance to performance, it closely follows the international leading design trend. MAXCOPE will continue to provide customers with complete 3D industrial inspection solutions.



Infinity Plan Semi-APO 4x10x20x40x100x Objectives With 6 Holes Motor Nosepiece

XYZ Motorized Stage Large Moving Range 100x100mm Resolution 0.05um

Full Auto 2D Scan Image Stitching With Quick & Precise Mode

Upgradeable to 2D Pro & 3D Version Software Enable 3D Image Stitching & Measuring

USB3.0 20M Cooling Fluorescent Digital Camera With Computer Pre Installed Software



Extra WF PL10x/25mm
Invert Image Infinity Gemel Trinocular Head, High Eyepoint Plan PL10x/25mm, Diopter Adjustable

Light Splitting Ratio Switch
R:T=100:0 or 20:80 or 0:100



BF 6 Holes Nosepiece
For Bright Field, With Socket For DIC Slide & Polarizing Analyzer Slide

Semi-APO Objective
Infinity Plan Semi-APO Fluorescent Objective
4x, 10x, 20x, 40x, 100x



Digital Dimming Illumination

12V100W Halogen Illumination with Iris Diaphragm, With Light Indicator, Digital Dimming System Have Brightness Set & Reset Function



Transmit Filters

Built-In Transmit Filters LBD/ND6/ND25



Coaxial Focusing

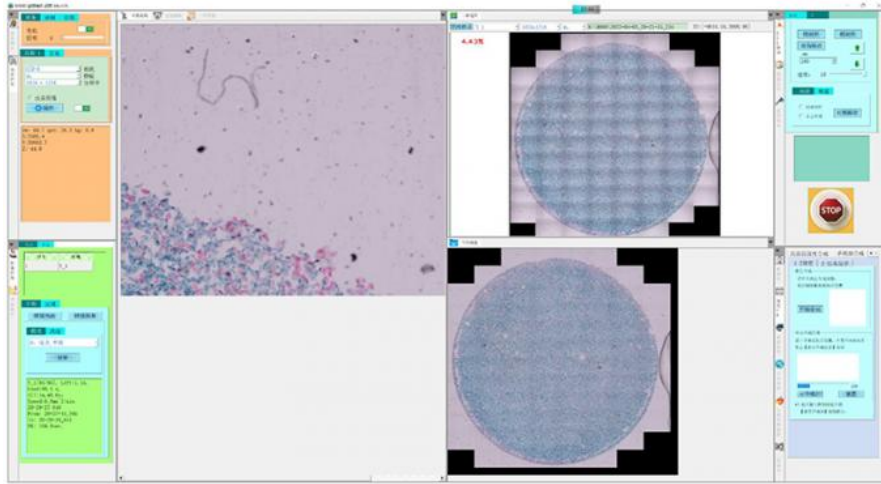
Low-Position Coaxial Coarse & Fine Adjustment With Coarse Adjustment Stop And Tightness Adjustment.



显微-1	宏观
CCD-1	相机
10x	物镜
1824 x 1216	分辨率
<input type="checkbox"/> 水平翻转	<input checked="" type="checkbox"/> 垂直翻转
<input type="checkbox"/> 改善图像	
属性	ON

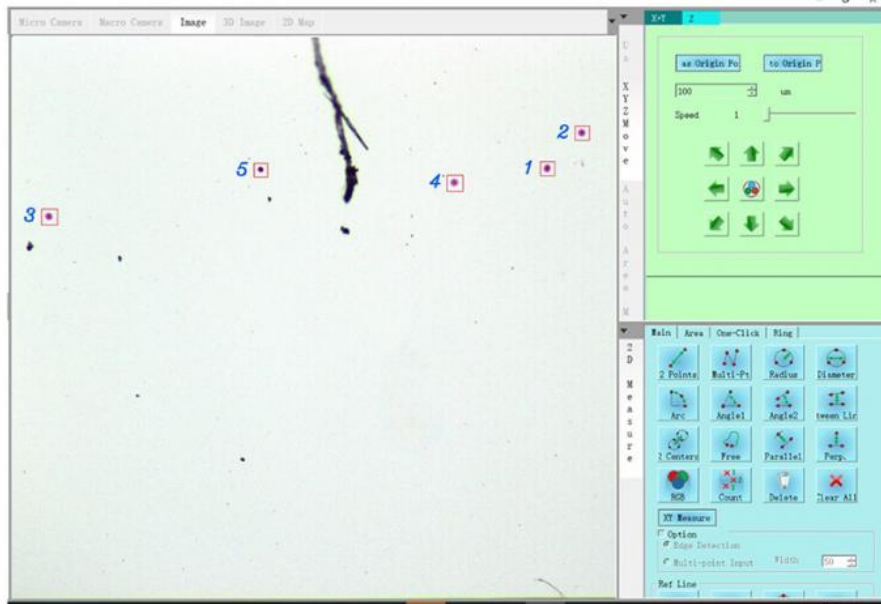
Motorized Nosepiece

Optional motorized nosepiece models, you can select different objective lenses in the software, and switch the magnification with one key



Stitching Optimize

The built-in advanced algorithm can intelligently optimize and correct the grid phenomenon and shadow phenomenon caused by lens aberration, uneven lighting and other factors when scanning and stitching, so that the stitched image will be one high-definition, no offset, no grid, no shadow.



One Click Auto Measurement

Multiple measurement items can be saved as templates, software intelligently matches similar shapes, removes redundant targets or separates overlapping targets, automatically performs unified measurement, counting and analysis for multiple targets by one click

Item	M12.5850 3D Full Auto SDF Biological Microscope	M1	M1	Cata. No.
	M16.5850 3D Full Auto SDF Fluorescent Microscope	2.5 85 0	6.5 85 0	
Optical System	Infinity Optical System, BF Bright Field	●	●	
	Semi-APO, Semi Apochromatic	●	●	
	APO, Apochromatic	○	○	
	DF, Dark Field	○	○	
	PL, Polarizing	○	○	
	PH, Phase Contrast	○	○	
	DIC, Different Interference Contrast	○	○	
Head	FL, Fluorescent	○	○	
	30° Inclined Erect Image Infinity Gemel Trinocular Head, Interpupillary Distance 50~76mm, Light Splitting Ratio Switch E100:P0/E0:P100,	○	○	A53.0 913- T30E
	30° Inclined, Invert Image Infinity Gemel Trinocular Head, Interpupillary Distance 50~76mm; Light Splitting Ratio Switch R:T=100:0 or 20:80 or 0:100	●	●	A53.0 913- T30
	5-35° Tiltable, Inverted Image, Infinity Gemel Trinocular Head, Interpupillary Distance 50~76mm; Light Splitting Ratio 50:50 or 100:0 or 0:100	○	○	A53.0 913- T535
	0.5x C-Mount, For 1/2"CCD, Focus Adjustable	●	●	A55.0 930- 05

Adaptor	0.35x C-Mount, For 1/2"CCD, Focus Adjustable	○	○	A55.0 930-35
	0.65x C-Mount, For 1/2"CCD, Focus Adjustable	○	○	A55.0 930-65
	1.0x C-Mount, For 1"CCD, Focus Adjustable	○	○	A55.0 930-10
Digital Camera	USB3.0 CMOS Cooling Digital Camera, For Fluorescent Imaging, GS Shutter, 20M, 1" CMOS, 30@1824x1216, Semi-Conductor Cooling Range -42°C, Anti-Frog, One Hour Exposure, C-Mount	●	●	A59.2 225-20MPA
Eyepiece	High Eyepoint Plan PL10x/25mm, Diopter Adjustable	●●	●●	A51.0 904-1025T
	High Eyepoint Plan PL10x/26.5mm, Diopter Adjustable	○	○	A51.0 904-10265T
	High Eyepoint Plan PL10x/25mm, Diopter Adjustable, With Reticle	○	○	A51.0 905-1025T
	High Eyepoint Plan PL10x/26.5mm, Diopter Adjustable, With Reticle	○	○	A51.0 905-10265T
Nosepiece	BF 6 Holes, With Socket For DIC Slide & Polaring Analyzer Slide, Coded & Motorized Control by Software	●	●	A54.0 930-R6
Objective	Infinity Plan Semi-APO Fluorescent Objective			
	Semi-APO Fluorescent 4x/0.13, W.D.=16.43mm	●	●	A5F.0 950-4
	Semi-APO Fluorescent 10x/0.3, W.D.=8.13mm	●	●	A5F.0 950-10
	Semi-APO Fluorescent 20x/0.5, W.D.=2.03mm	●	●	A5F.0 950-20
	Semi-APO Fluorescent 40x/0.75, W.D.=0.74mm	●	●	A5F.0 95040
	Semi-APO Fluorescent 100x/1.3, W.D.=0.18mm	●	●	A5F.0 950-100
	Infinty Plan APO Flourscent Objective			
	APO Fluorescent 2x/0.08, WD=6.2mm	○	○	A5F.0 951-2
	APO Fluorescent 4x/0.13, WD=16.6mm	○	○	A5F.0 951-4
	APO Fluorescent 10x/0.40, WD=2.1mm	○	○	A5F.0 951-10
	APO Fluorescent 20x/0.75, WD=0.6mm	○	○	A5F.0 951-20
	APO Fluorescent 40x/0.95, WD=0.15mm	○	○	A5F.0 951-40
	APO Fluorescent 60x/0.90, WD=0.26mm	○	○	A5F.0 951-60
	APO Fluorescent 100x/1.35, WD=0.13mm	○	○	A5F.0 951-100
Centering Objective For Fluorescent	○	●	A5F.0 930-1	
Focusing	Low-Position Coaxial Coarse & Fine Adjustment, Coarse Adjustment Distance: 25mm; Fine Precision: 0.001Mm. With Coarse Adjustment Stop And Tightness Adjustment.	●	●	
Main Body	Transmitted Biological Main Body, Digital Dimming System With Light Indicator, Brightness Set & Reset Function, With ECO Function	●		
	Reflected & Transmitted Fluorescent Main Body, Digital Dimming System With Light Indicator, Brightness Set & Reset Function, With ECO Function		●	

Transmit	12V100W Halogen Lamp House, Pre-Centered	●	●	A56.0 915-LH
Light	12V100W Halogen Bulb (Philps 7724)	●	●	A56.0 923-12100
	Swing-out Type Achromatic Condenser, N.A.0.9/0.25	●	●	A56.0 934-R
	Built-In Transmit Filters LBD/ND6/ND25	●	●	
Reflect Epi	Full Set, 6 Holes Reflect Epi-Fluorescent Illumation, With Iris Diaphragm, With Aperture Diaphragm, With Filter Slot, With Polarizing Analyzer Slot, With Protect Barrier, With Fluorescent Shutter			
Fluorescent Light	--100W Mercury Light Box, Center Adjustable		●	A5F.0 906
	--Digital Power Supply 90~240V			
	--HBO 100W Mercury Bulb OSRAM			
	--Attenuation Filter ND50			
	--Fluorescent Filter B,G,UV			
	--Fluorescent Filter V			A5F.0 906-V
Power	Built-In 100-240V Wide Voltage Transformer	●	●	
Other	Allen Key M4	●	●	
Universal Condenser For Dark Field, Polarizing, Phase Contrast, DIC View				
Universal Condenser	Universal Condenser, Disc With 8 Holes For Function DF, PL, PH, DIC			
	--3 Small Holes For Phase Contrast Rings A5C.0960, PH Objectives A5C.0961			
	--3 Big Holes Only For DIC Rings A5M.0960	○	○	A56.0 960
	--2 Big Holes Center Adjustable, For Dark Field Ring A5D.0960 or DIC Ring A5M.0960			
	--Polarizier Lens Included In Socket Under Universal Condenser			
	--Need to Select N.A.0.9 Condenser Lens As Standard			
	N.A.0.9 Condenser Lens, Standard Selection, For Objective 10x20x40x60x100x	○	○	A56.0 960-09
	Screw On Universal Condenser Disc			
Universal Condenser	N.A.0.2 Condenser Lens, Optional Selection, For Objective 4x	○	○	A56.0 960-02
	Screw On Universal Condenser Disc			
	N.A.1.4 Condenser Lens, Optional Selection, For Objective 20x40x60x100x	○	○	A56.0 960-14
	Screw On Universal Condenser Disc			
Dark Field	Dark Field Ring, Dry Type N.A.0.9, For Objective 10x,20x	○	○	A5D.0 960-D
	Dark Field Ring, Immersion Oil Type N.A.1.4, For Objective 40x,60x	○	○	A5D.0 960-I
DIC	Transmission DIC Slide, Insert To DIC Socket On Nosepiece	○	○	A5M.0 960
	Transmission DIC Ring 10x	○	○	A5M.0 960-10
	Transmission DIC Ring 20x	○	○	A5M.0 960-20
	Transmission DIC Ring 40x/60x	○	○	A5M.0 960-4060
Phase Contrast	Infinity Plan Apochromatic Positive Phase Contrast Objective	○	○	
APO Objective	APO PH 4x/0.16, WD=12.8m	○	○	A5C.0 950-4
	APO PH 10x/0.40, WD=2.5mm	○	○	A5C.0 950-10
	APO PH 20x/0.75, WD=0.6mm	○	○	A5C.0 950-20
	APO PH 40x/0.95, WD=0.15m	○	○	A5C.0 950-40
	APO PH 60x/0.90, WD=0.26mm	○	○	A5C.0 950-60

	APO PH 100x/1.35, WD=0.13mm	○	○	A5C.0 950- 100
Polarizing	Polarizer Lens Included In Plug-in Socket Under Universal Condenser	○	○	
	Analyzer Slide, Insert To Analyzer Socket On Nosepiece	○	○	A5P.0 960
Upgrade Series Model				
Metallurgical	Upgrade to M13.5850 3D Full Auto SDF DIC Metallurgical Microscope, APO			M13.5 850
Remark: '●' Means Standard Outfit, '○' Means Optional				

Motorized Working Stage, Computer & Software				
Motorized Working Stage	XYZ Motorized Working Stage, 2-Phase Stepping Motor, High Precision Module, Aluminum Alloy Material, Surface Anodized, Anti-Corrosion And Scartch-Resistant			
XY Moving	110x110mm			
Z Moving	20mm			A5
Resolution	<0.05um			4.5
Max. Speed	50mm/s			● 83
Repeatability	≤20um			1
Max. Load	16kg			
Weight	4.8kg			
Computer	PC i5 16G 256G+1T, 1G Graphic Card, 24"LCD			●
Maxcope Software	2D Standard Version, Detail See Software Table			A3 0.5 ● 80 1
	2D Advanced Version, Detail See Software Table			A3 0.5 ○ 80 2
	3D Professional Version, Detail See Software Table			A3 0.5 ○ 80 3
	Customized Function, Detail See Software Table			A3 0.5 ○ 80 4



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