



## 50x-1000x OPTO-EDU A13.0921 BD DIC Optical Metallurgical Microscope

Our Product Introduction

for more products please visit us on [cnoec.com](http://cnoec.com)

### Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A13.0921
- 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

- Magnification: Optical Magnification 50x~1000x, Total Magnification 135x~2700x
- Eyepiece: High Eyepoint Plan Eyepiece PL10x/22mm, Diopter Adjustable
- Head: 5°~35° Infinity Gemel Trinocular Head
- Working Stage & Illumination: Manual Stage
- Table: Table For Machine
- Illumination: Reflect Bright & Dark Field Illumination
- Highlight: **DIC Optical Metallurgical Microscope, BD Optical Metallurgical Microscope, 50x metallurgical microscope**

## Product Description

Designed For Powerful Measurement Function, With Reliable Quality And Technology

A13.0921 Precision Measuring Metallurgical Microscope combines the high power observation ability of metallographic microscope with the X, Y, Z axis surface dimension measurement function of image measuring instrument. It has many observation functions such as Bright Field & Dark Field, Differential Interference Contrast (DIC), polarized light, etc. It can be widely used in semiconductor, PCB, LCD, mobile phone industry chain, optical communication, basic electronics, mold hardware, medical equipment, automotive industry, measurement industry and other fields of testing.



OPTO-EDU (BEIJING) CO., LTD.

OPTO-EDU

F-1501 Wanda Plaza, No.18 Shijingshan Road, Beijing 100043, China  
Tel:+8610 88696020 Fax:+8610 88696085

### Precision Measuring Metallurgical Microscope, BD, DIC A13.0921



#### 5°~35° Tilttable Infinity Gemel Trinocular Head

The tilt angle of the observation tube is adjustable from 5° to 35°, can meet the user's operation needs whether standing or sitting, and there is no need to worry about the height difference of users

#### Large Moving Range Working Stage

With Japan imported optical grating ruler,

3 Kinds large size working stages optional: moving range 200x100mm, 300x200mm, 300x300mm, for large or small sample observation. The stage size can be customized according to user's need.

#### Newly Design With Highly Integrated Functions

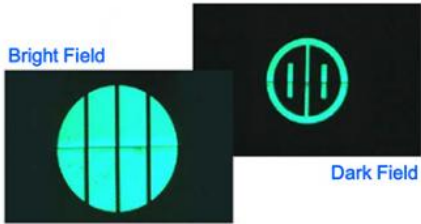
A13.0921 not only reserves the location for desktop computer, but also puts a retractable keyboard in front of user. Hand wheel in two directions and various buttons are ergonomic designed, user does not need to stand up to operate.

**Usage**  
 Dimension Measurement of IC Advanced Packaging Bumping Alignment  
 Accuracy Measurement of IC Advanced Packaging Bumping  
 Measurement of PCB Solder Pin  
 Measurement of LCD Panel TFT



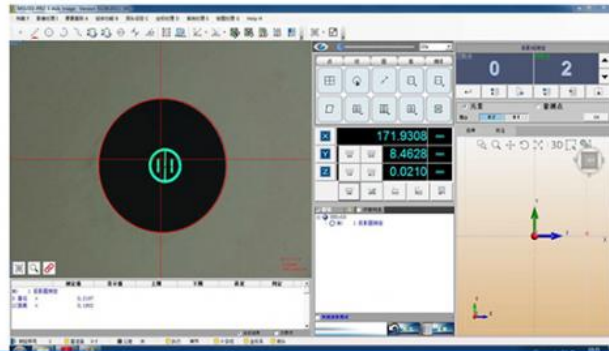
**Precision Measuring Tool**

A13.0921 Measuring Microscope use 3D X/Y/Z measuring system with 0.1um reading, the high precision grating ruler integrated in the rack is imported from Japan. The z-axis is controlled by a high-precision electric controller, with 3 speeds available, focusing maneuverability, improve efficiency, reduce cost, and low fatigue.



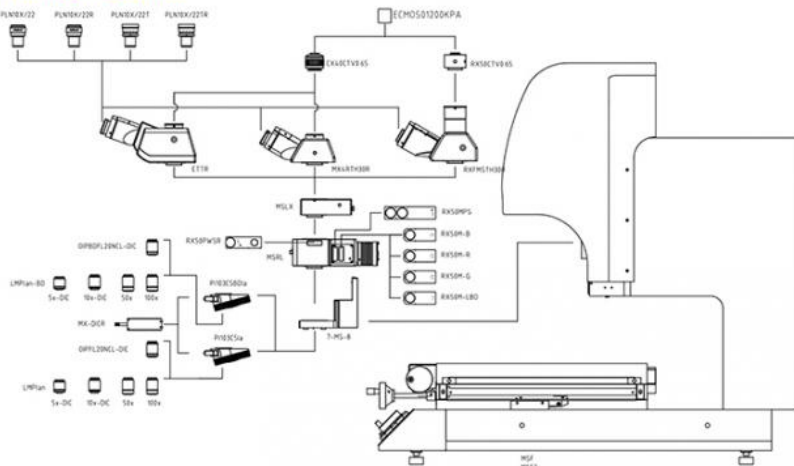
**Independent Split Image Illumination Controller**

The independent split image illumination controller, can adjust the brightness according to the different background of the sample, to assist focusing more clearly and accurately. There are 2 split image patterns to choose, can be switched easily.



**Professional Measuring Software**  
 A13.0921 measuring microscope is equipped with simple operation, powerful measuring software, customers can set the test preferences according to their needs. The software is equipped with all kinds of measurement functions of manual and automatic point taking, it can be used in a wider range, even for complex shapes, it can make high-precision measurement.

**System Configuration**



A13.0921 Precision Measuring Metallurgical Microscope, BD, DIC	-21	-32	-33
Magnification	Optical Magnification 50x~1000x, Total Magnification 135x~2700x		
Eyepiece	High Eyepoint Plan Eyepiece PL10x/22mm, Diopter Adjustable		
Head	5°~35° Infinity Gemel Trinocular Head, Erect Image, 360° Rotating, Interpupillary Range 50~76mm; Light Splitting Ratio Switch E0:P100/E100:P0		
	Long Working Distance Infinity Plan Achromatic Metallurgical Objective		
	5x-DIC LMPL5x/0.15 W.D.10.8mm		
	10x-DIC LMPL10x/0.3 W.D.12.20mm		
	20x-DIC LMPLanFL20x/0.4 W.D.8.8mm, Semi-APO		

Objective	50x LMPLFL50x/0.55 W.D.7.9mm			
	100x LMPLFL100x/0.80 W.D.2.1mm	○	○	○
	Long Working Distance Infinity Plan Achromatic BD Metallurgical Objective			
	5x-DIC/0.15 W.D.9.0mm	○	○	○
	10x-DIC/0.3 W.D.9.0mm	○	○	○
	20x-DIC/0.4 W.D.8.5mm, Semi-APO	○	○	○
	50x/0.55 W.D.7.5mm	○	○	○
DIC	100x/0.80 W.D.2.1mm	○	○	○
Nosepiece	DIC Prism (Reflection)			
	Reversed Quintuple Nosepiece, With DIC Slot, For Bright Field			
Working Stage & Illumination	Reversed Quintuple Nosepiece, With DIC Slot, For Bright & Dark Field	○	○	○
	Manual Stage, Moving Range 200mm(X) x 100mm(Y), With Digital Indicator. Z Axis With Auto-control Box For Focusing; Z Axia Move Range 175mm. Measuring Precision: X/Y (3+L/200)um, Z Axis Repeatability Precision 2μm (20x Objective), With 5W LED Transmitted Illumination	●		
	Manual Stage, Moving Range 300mm(X) x 200mm(Y), With Digital Indicator. Z Axis With Auto-control Box For Focusing; Z Axia Move Range 175mm. Measuring Precision: X/Y (3+L/200)um, Z Axis Repeatability Precision 2μm (20x Objective), With 5W LED Transmitted Illumination		●	
	Manual Stage, Moving Range 300mm(X) x 300mm(Y), With Digital Indicator. Z Axis With Auto-control Box For Focusing; Z Axia Move Range 175mm. Measuring Precision: X/Y (3+L/200)um, Z Axis Repeatability Precision 2μm (20x Objective), With 5W LED Transmitted Illumination			●
Table	Table For Machine			
Illumination	Reflect Bright & Dark Field Illumination, With BD Switch Device; With Filter Slots For Filters And Polarizing Kit; 5W LED, Intensity Adjustable;			
Focusing	Focus Assist Controlled By High-Precision Electric Controller, With 3 Speeds Available, With Double Reticle; Focusing Range >400mm			
Polarizing	Polarizer Slide For Reflect Illumination			
	360° Rotatry Analyser Slide For Reflect Illumination			
Adapter	0.5x C-Mount, Focus Adjustable			
	0.65x C-Mount, Focus Adjustable	○	○	○
Digital Camera	1.2M Digital Camera, Pixel 1280(H) x 960(V); 60fps; Interface Gige; Sensor CMOS (Color)			
Software	MSU3D-Pro Measurment software			
Computer	DELL 3470, Intel i5 Commercial Office, Desktop Computer (i5-9400 8G 1T WIFI) 21.5" Monitor			
Spanner	Spanner M5			
	Spanner M4			
Packing	Foam+ Master Carton			
Micrometer	High Quality Micrometer Slide 0.01mm	○	○	○



Opto-Edu (Beijing) Co., Ltd.

☎ 0086 13911110627

✉ sale@optoedu.com

🌐 cnoec.com

F-1501 Wanda Plaza, No. 18 Shijingshan Road, Beijing 100043, China