



Precision Measuring Metallurgical Microscope, BD, DIC

A13.0921



Product Details

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.

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.



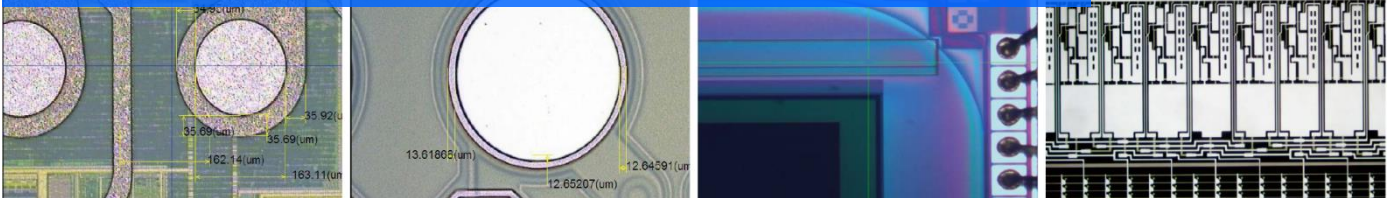
Usage

Dimension Measurement of IC Advanced Packaging Bumping Alignment

Accuracy Measurement of IC Advanced Packaging Bumping

Measurement of PCB Solder Pin

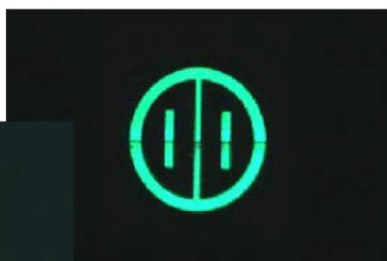
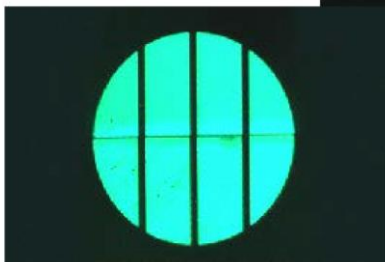
Measurement of LCD Panel TFT



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.

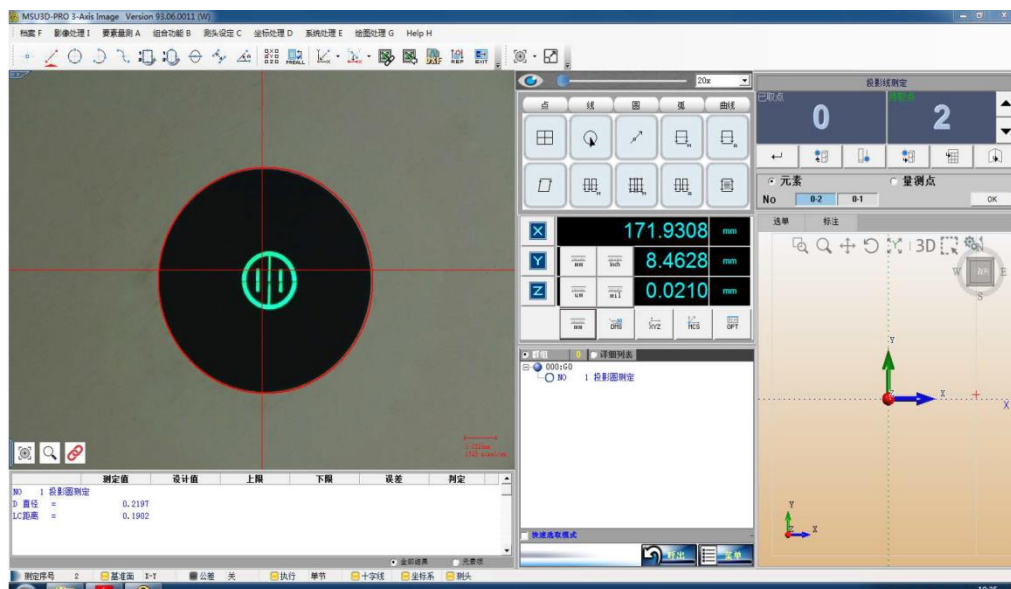
Bright Field



Dark Field

Independent Split Image Illumination Controller

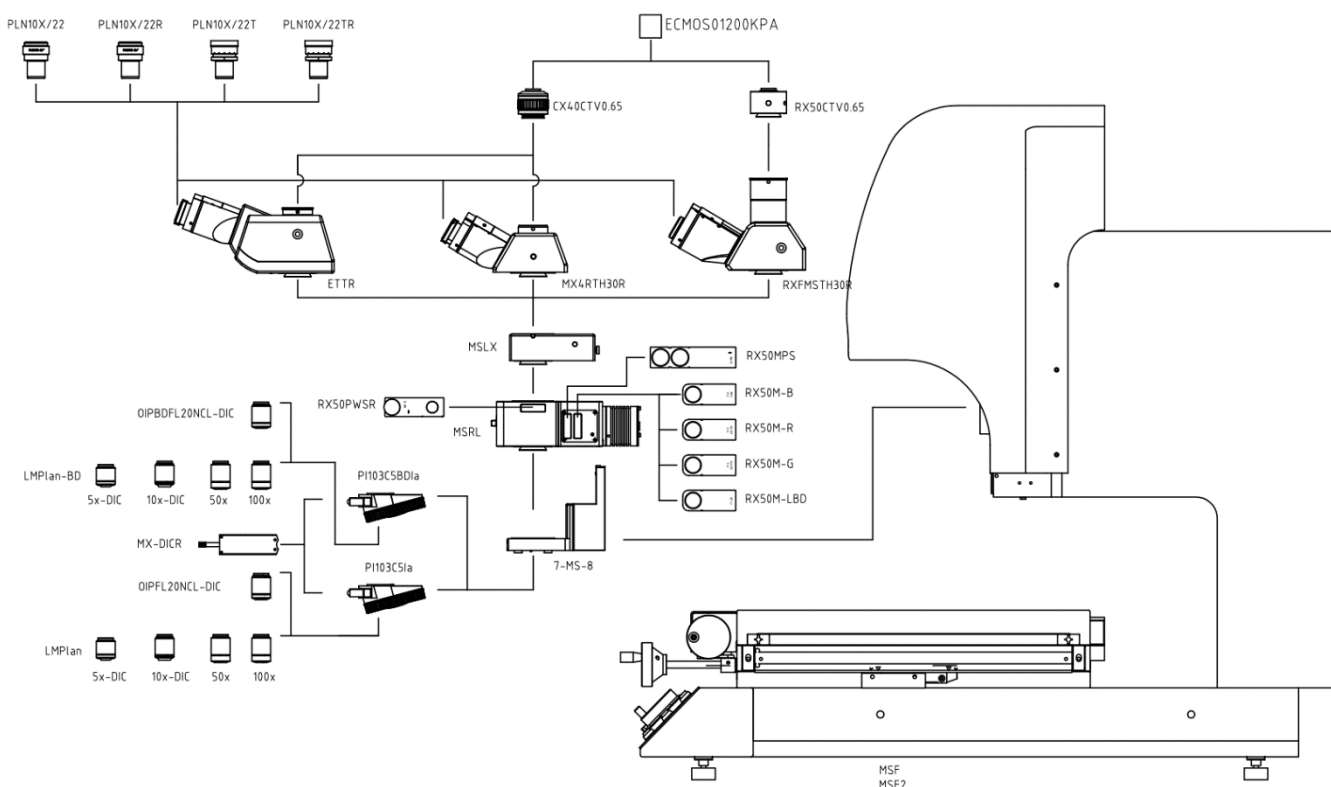
The independent split image illumination controller, can adjust the brightness according to the different background of the sample, to assist focusing more clearly and accurately. There are 2 split image patterns to choose, can be switched easily.



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



Product Specification

A13.0921 Precision Measuring Metallurgical Microscope, BD, DIC		-21	-32	-33	-43	
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	●	●	●	●	
Objective	Long Working Distance Infinity Plan Achromatic Metallurgical Objective					
	5x-DIC LMPL5x/0.15 W.D.10.8mm	●	●	●	●	A5M.0932-5
	10x-DIC LMPL10x/0.3 W.D.12.20mm	●	●	●	●	A5M.0932-10
	20x-DIC LMPLanFL20x/0.4 W.D.8.8mm,	●	●	●	●	A5M.0932-20
	50x LMPLFL50x/0.55 W.D.7.9mm	●	●	●	●	A5M.0933-50
	100x LMPLFL100x/0.80 W.D.2.1mm	○	○	○	○	A5M.0933-100
	Long Working Distance Infinity Plan Achromatic BD Metallurgical Objective					
	5x-DIC/0.15 W.D.9.0mm	○	○	○	○	A5M.0939-5
	10x-DIC/0.3 W.D.9.0mm	○	○	○	○	A5M.0939-10
	20x-DIC/0.45 W.D.3.4mm	○	○	○	○	A5M.0939-20
	50x/0.55 W.D.7.5mm, Semi-APO	○	○	○	○	A5M.0940-50
	100x/0.80 W.D.2.1mm, Semi-APO	○	○	○	○	A5M.0940-100
DIC	DIC Prism (Reflection)	○	○	○	○	A5M.0950
Nosepiece	Reversed Sextuple Nosepiece, With DIC Slot, For Bright Field	●	●	●	●	A54.0930-MX6
	Reversed Sextuple Nosepiece, With DIC Slot, For Bright & Dark Field	○	○	○	○	A54.0930-MX6BD
Base	Marble base, Z axis with auto-control box for focusing, Z axis move range 150mm. Z axis repeatability precision 2μM(20X objective) ; with 5W LED transmitted illumination. Size:500x770x960mm, weight 155kgs	●	●			
	Marble base, Z axis with auto-control box for focusing, Z axis move range 150mm. Z axis repeatability precision 2μM(20X objective) ; with 5W LED transmitted illumination. Size:670x940x960mm, weight 200kgs			●	●	
Digital Indicator	Digital indicator, display accuracy 0.1um(X/Y/Z), optional unit: mm or inch.	●	●	●	●	
Working Stage	Manual stage, moving range: 200mm(X) x 100mm(Y), Measuring precision: X/Y (2+L/100)um, Accuracy assurance weight 10kgs, stage size: 258x358mm.	●				
	Manual stage, moving range: 300mm(X) x 200mm(Y), Measuring precision: X/Y (3+L/100)um, Accuracy assurance weight 15kgs, stage size: 350x500mm.		●			
	Manual stage, moving range: 300mm(X) x 300mm(Y), Measuring precision: X/Y (3+L/100)um, Accuracy assurance weight 20kgs, stage size: 500x500mm.			●		
	Manual stage, moving range: 400mm(X) x 300mm(Y), Measuring precision: X/Y (3+L/100)um, Accuracy assurance weight 20kgs, stage size: 458x620mm.				●	
Table	Table for machine, 1075x995x685mm, weight 120kgs	○	○	○	○	A54.0970
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, with double reticle; 5W LED (green), 100V-240V,with BF/DF switch device.	●	●	●	●	
Polarizing	polarizer & 360 degree rotatry analyser inserter (for reflection)	○	○	○	○	A5P.0970
Adapter	0.5x C-Mount, Focus Adjustable	●	●	●	●	
	0.65x C-Mount, Focus Adjustable	●	●	●	●	
Digital Camera	3M Camera,Pixel: 1600(H) x 1200(V); frame rate: 20fps; digital sensor: CMOS (color)	●	●	●	●	
Filter	Interference filter,blue(for reflection)≤480nm	○	○	○	○	A5M.0951
	Interference filter,green(for reflection)520nm-570nm	○	○	○	○	A5M.0951
	Interference filter,red(for reflection)630nm-750nm	○	○	○	○	A5M.0951
Calibration plate	Calibration plate	●	●	●	●	
Software	MSU3D-Pro Measurment software	●	●	●	●	
Computer	Lenovo M400Q, desktop computer (i5-10400 8G 1T) 21.5 inches	●	●	●	●	
Spanner	Spanner M5	●	●	●	●	
	Spanner M4	●	●	●	●	
Packing	Foam+ Master Carton	●	●	●	●	
Micrometer	High Quality Micrometer Slide 0.01mm	○	○	○	○	A58.0903

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