Mikrosize®

uVision

Toolmakers Microscope

Contact us

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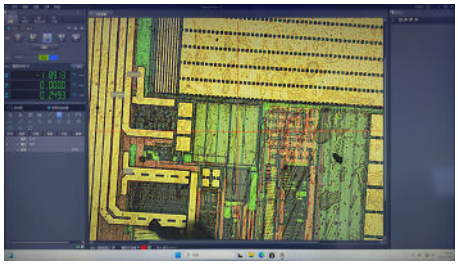
Feature and Application

Industrial microscopes have remarkable advantages. They are equipped with a trinocular eyepiece tube and multiple observation methods, allowing for flexible adaptation. With 10X/25 eyepieces and a variety of high-performance objective lenses, they can produce clear images. The manual focusing is precise, and it is equipped with a green semi-circular auxiliary focusing function. The 6-megapixel CCD camera and LED cold light source ensure excellent image acquisition and illumination, enabling high measurement accuracy and meeting diverse industrial inspection requirements.

Product Feature

- The light splitting ratio of the trinocular eyepiece tube is 100:0. It is equipped with a variety of observation methods and can be flexibly switched to meet different observation requirements.
- It is equipped with a variety of high-performance objective lenses, such as the Plan-S-APO series, which can provide high imaging quality and accurately restore details.
- An electric converter can be optionally equipped, with an electric motor installed at the rear.
- It supports manual coarse/fine focusing, and there is a green semi-circle for auxiliary focusing, which makes the operation convenient. The focusing is fast and precise.
- The 6-megapixel CCD camera is equipped with a USB3.0 interface, enabling efficient image acquisition and fast data transmission, which is convenient for data processing.
- The LED cold light source provides illumination with stable brightness, reduces heat generation, offers a clear and bright observation field of view, and extends the service life of the device.

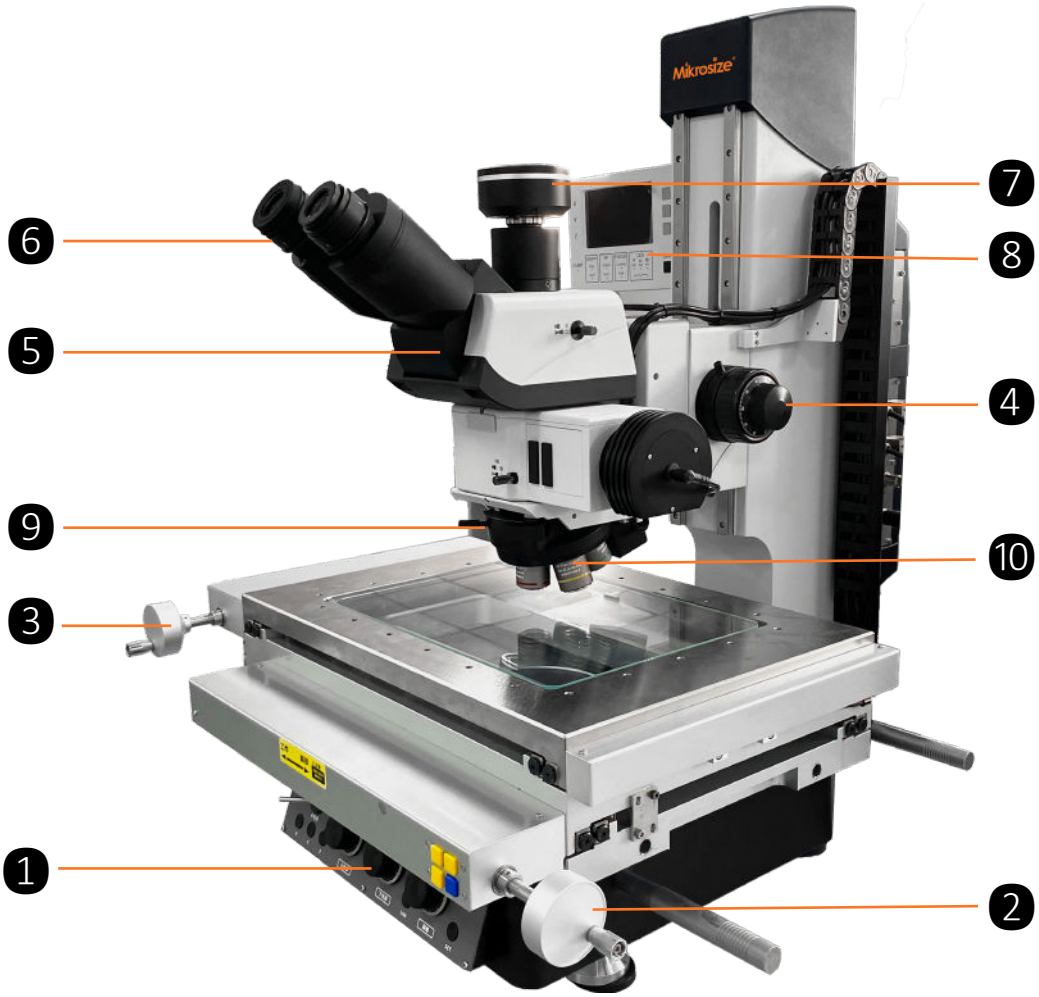


Feature and Application

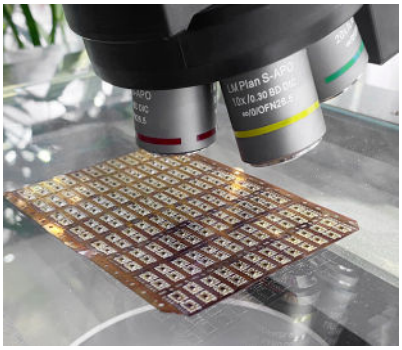
Product Application

- High-precision objective lenses and manual focusing enable precise inspection of the fine structures of parts, assisting in high-precision assembly work.
- With a variety of observation methods and high-quality light sources, it is conducive to the analysis of the metallographic structure of metal materials and the evaluation of material properties.
- The workbench has a large travel range and high measurement accuracy, which facilitates the observation of the microscopic damage and material details of workpieces.
- It can be used to observe and analyze the microscopic structure of the chip, the flatness of the chip surface, the circuit wiring, and the interface conditions of materials at various layers.

Product Details



1.Function Control Area **2.X-axis Handwheel** **3.Y-axis Handwheel**
4.Coaxial Coarse and Fine Focusing Knob **5.Eyepiece tube** **6.Eyepiece**
7.Camera **8.Digital readout** **9.Nosepiece** **10.Objective lens**



Product Details

Hardware Advantage

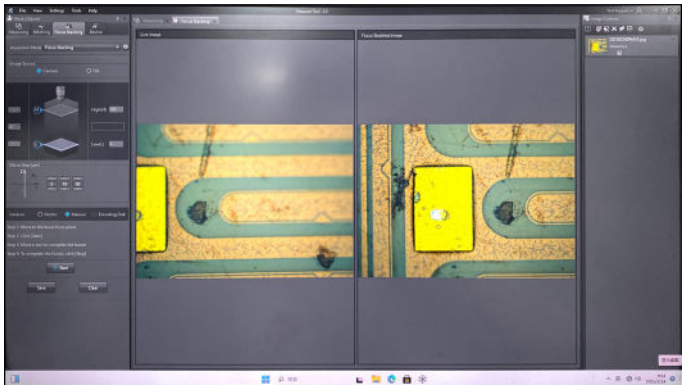
- It has coaxial coarse and fine focusing. The fine focusing micro-movement value is 2 micrometers, and it is equipped with an upper limit buckle, enabling precise and convenient adjustment.
- An electric Z-axis can be optionally equipped, which makes it more convenient for users and enables more precise adjustment.
- It is equipped with a light and dark field conversion pull rod. The optical path design has a simple polarization function. There is a DIC slot on the converter, providing rich optical path functions and a variety of observation methods.

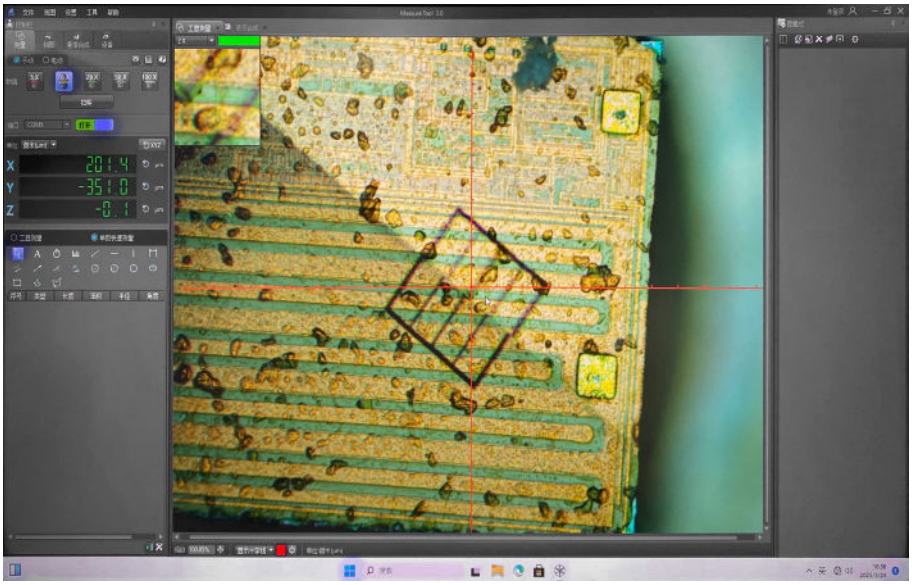
Product Details

Hardware Advantage

- The X and Y-axis handwheels achieve micron-level precise positioning thanks to accurate damping control, smooth operation, and fine graduations.
- Working platform: With high precision, strong stability, easy operation and high compatibility, it enables excellent microscopic applications.

Software Operation Interface





- Software functions:
- Measurement functions include measuring distance, angle, circle, distance from a point to a line, parallel lines, and polygons.
- Functions such as taking photos, recording videos, white balance adjustment, and automatic exposure.
- Users can set their own measurement standards, including straight line and circle standards, and there are multiple units available for selection.
- It is possible to set the color of the scale lines and the diameter of the scale lines.
- It includes the functions of depth-of-field fusion and image stitching.
- It includes an auxiliary focusing function, enabling users to focus more quickly.

Mikrosize®

Technical Specification

Observation Tube	Trinocular Observation tube.The light splitting ratio is 100:0, and the interpupillary distance is adjustable from 50mm to 75mm.	
Methods Of Observation	BF/DF/PO/DIC(Optional)	
Eyepiece	10X/25(One of them is equipped with a crosshair)	
Objective Lens	Plan semi-apo-chromatic objective lens for bright and dark field	Plan S-APO:5X BD DIC N.A0.15 WD=14.8
		Plan S-APO:10X BD DIC N.A0.30 WD=13.6
		Plan S-APO:20X BD DIC N.A0.40 WD=11.9
		Plan S-APO:50X BD DIC N.A0.55 WD=8.7
		Plan S-APO:100X BD DIC N.A0.80 WD=3.1
Focusing System	Manual coarse/fine focusing (Electric focusing is optional)	
Auxiliary Focusing	The green semi-circle is optional	
Nosepiece	Manual Nosepiece;a 5-hole converter for bright and dark fields, with a DIC slot (an encoded Nosepiece is optional). (An electric Nosepiece is optional)	
Resolution	X,Y,Z 0.1um	

Technical Specification

CCD Camera	A 6-megapixel camera with a CCD chip and USB 3.0 interface (A 12-megapixel camera is optional)
Camera Interface	0.65X C
Software	Take photos, save images, conduct measurements; perform depth-of-field fusion and image stitching
Light Source	Transmitted Illumination： Illuminated by an LED parallel - light cold light source
	Epi-illumination： Illuminated by an LED coaxial cold light source
Working Stage (mm)	Size of the metal platform:500*350
	Size of the glass platform:350*250
Stroke(mm)	X:200,Y:150,Z:200
Measurement Accuracy	2.8+L/100um
Measurement Height	175mm
Digital Readout	RS232

Standard Delivery

Name	Qty	Remarks
Main Unit	1pc	/
Eyepiece Tube	1pc	/
5-hole Nosepiece	1pc	/
CCD Camera	1pc	600W
10X/25 Eyepiece	2pcs	One of them is equipped with a crosshair)
Optical Path For Bright And Dark	1pc	/
LM PIan S-APO:5X BD DIC N.A0.15 WD=14.8	1pc	/
LM PIan S-APO:10X BD DIC N.A0.30 WD=8.5	1pc	/
LM PIan S-APO:20X BD DIC N.A0.40 WD=11.9	1pc	/
LM PIan S-APO:50X BD DIC N.A0.55 WD=8.7	1pc	/
LM PIan S-APO:100X BD DIC N.A0.80 WD=3.1	1pc	Optional
Digital Readout	1pc	/
Polarizer	1pc	/
Analyzer	1pc	/
Power cord	1pc	/