



## M12.5850 Compound Optical Microscope Biological Bf 2d Xyz Motorized

### Our Product Introduction

#### 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

- XY Moving: 110x110mm
- Z Moving: 20mm
- Resolution: <0.05um
- Max. Speed: 50mm/s
- Repeatability: ≤20um
- Maxcope Software: 2D Standard Version, Detail See Software Table
- Highlight: **motorised compound optical microscope ,  
2d compound optical microscope,  
compound optical motorised microscope**

## Product Description

### Motorized Biological Microscope, BF, XYZ Motorized

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

X/Y/Z 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



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# MAXCOPE M12.5850/M16.5850

Research 3D Full Auto Super Depth of Field

# Research 3D Full Auto Super Depth of Field Biological/Fluorescent Microscope Semi-APO, BF+DF+PL+PH+FL+DIC



A12.5850, A13.5850, A16.5850 Motorized Model

MAXCOPE



A12.0910 Upgrade to M12.5850  
Research Scientific Laboratory Microscope,  
Semi-APO, Upgrade BF+DF+PL+PH+FL+DIC



A59.2225 Cooling Digital Camera

A54.5801 XYZ Motorized Stage



A13.0910 Upgrade to M13.5850  
Upright Metallurgical Microscope, Semi-  
APO, BF+DF+PL+DIC



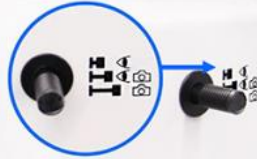
A16.0910 Upgrade to M16.5850  
Research Fluorescence Microscope,  
Semi-APO, Upgrade BF+DF+PL+PH+FL+DIC



### 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



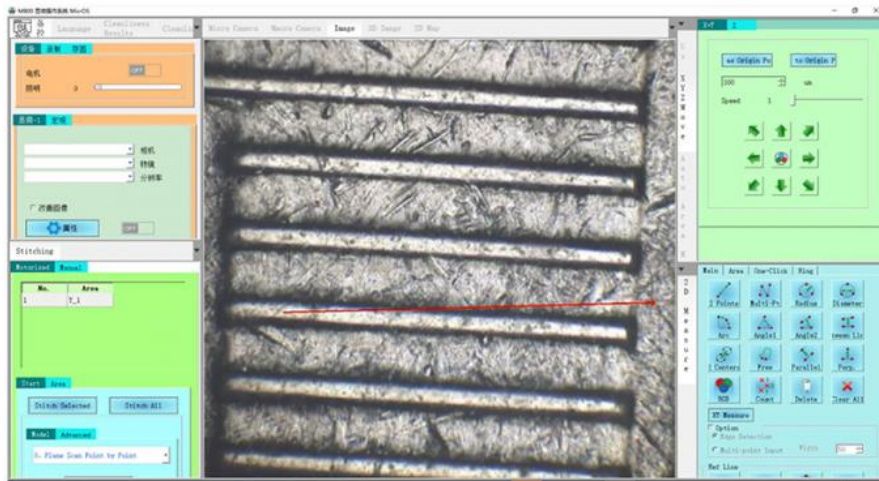
### Large Working Stage

Double Layer Mechanical Stage, 187\*166mm, Tension of Torque Adjustable.



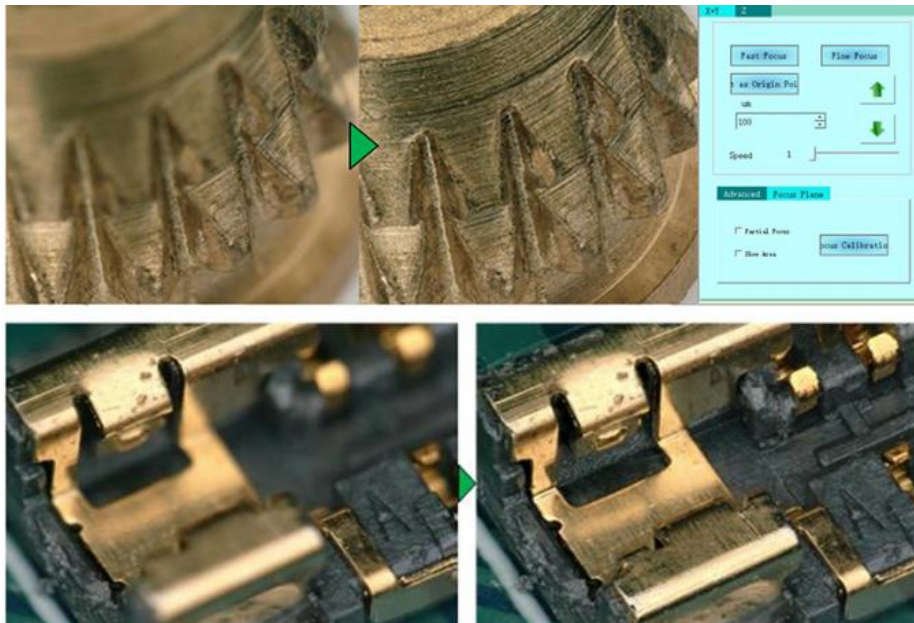


## Maxcope Software Features



### XY Motorized Control

Control the motorized stage through software, support one-click set/return to origin point, Long press the mouse and drag in the camera preview window to control the electric platform to move in the corresponding direction



### Z Motorized Control

The software controls the Z-axis motorized lift, support professional functions such as manual focus/auto focus/super depth of field fusion, create 3D image for view & measurement



### Motorized Nosepiece

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



### 2D Map Guide

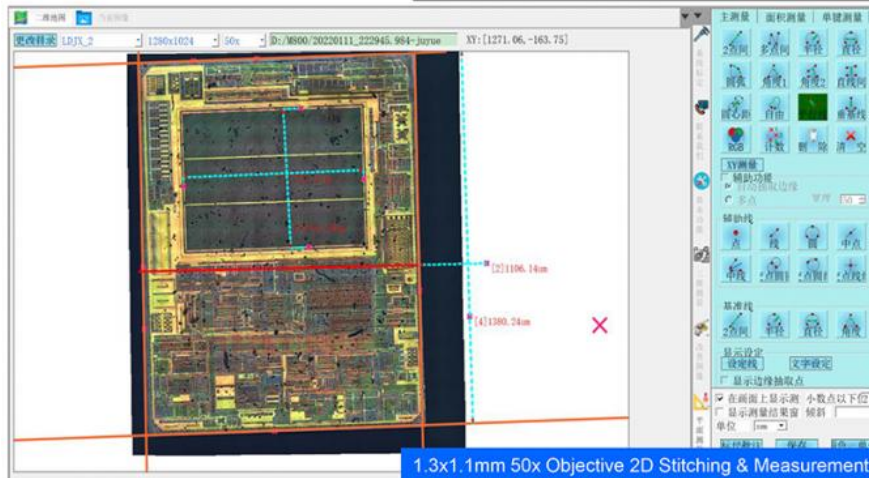
After scanning and stitching to generate a panoramic image, it can be used as an electronic 2D map for navigation. Click the 2D map to control the motorized stage to quickly locate the specified position for high-magnification observation



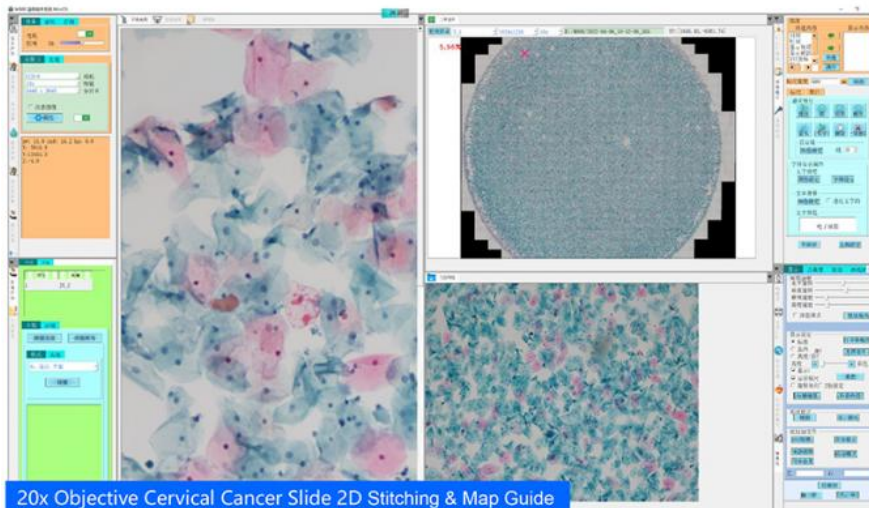
- 0、Plane Scan Point by Point
- 1、Bevel Scan Point by Point
- 2、Plane Flying Scan
- 3、Bevel Flying Scan\_Auto Focus
- 4、Bevel Flying Scan\_Manual Focus
- 5、Up/Down Fast
- 6、Up/Down Middle
- 7、Up/Down Fine
- 8、Up/Down Fusion
- 9、3D Stitching

## 2D Stitching

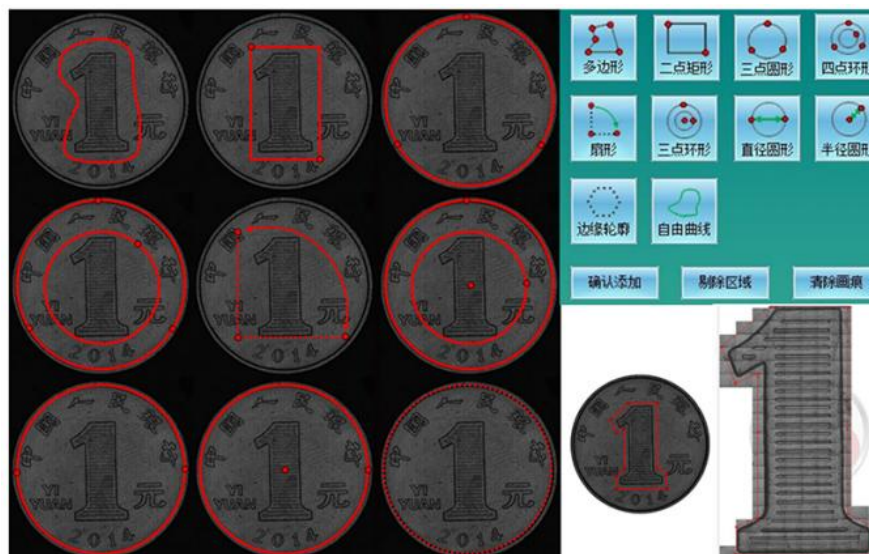
Supports auto scanning and stitching of 2D images of any tilt plane or concave and convex surface. 2 Standard 2D Stitching Modes, 7 Advanced 2D Stitching Modes can scan & stitch at different scanning accuracy and speed as your need.



1.3x1.1mm 50x Objective 2D Stitching & Measurement

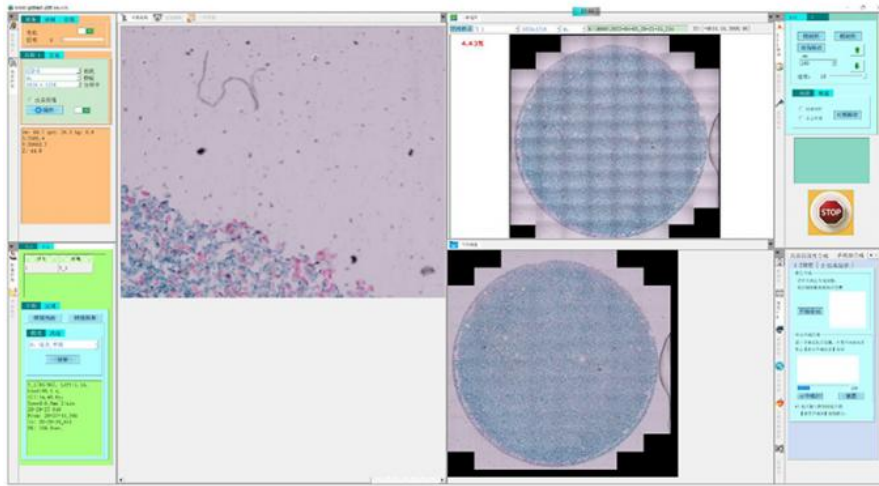


20x Objective Cervical Cancer Slide 2D Stitching & Map Guide



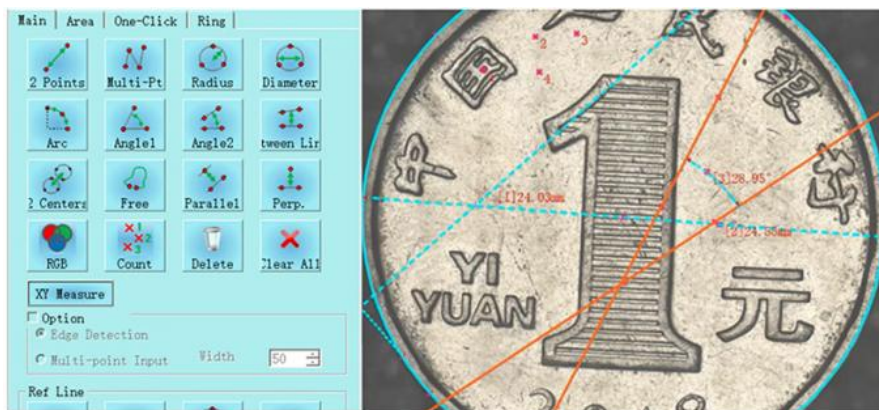
### Free Stitching Area

10 stitching area modes can quickly set stitching areas of any shape. Outline mode can automatically detect the edge contour of the object as the stitching area.



### 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.



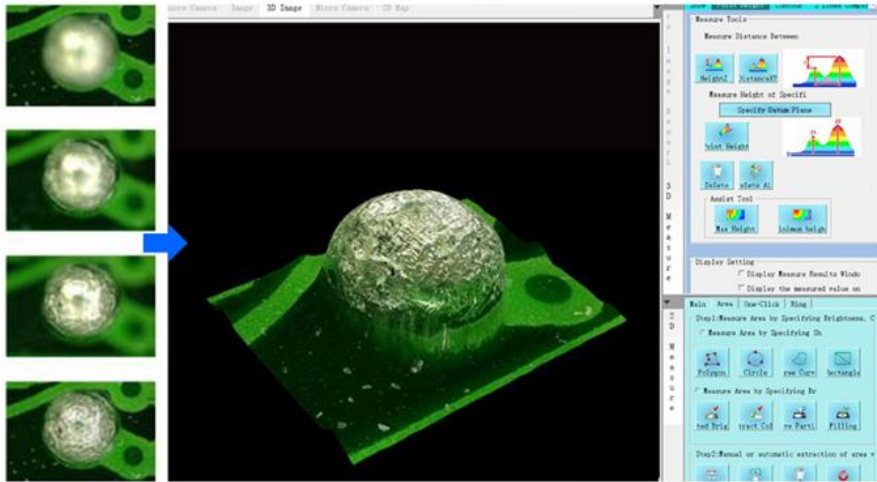
### 2D Measurement

10+ Functions, including length, angle, radius, diameter, free curve length, radius, diameter, arc length, RGB measurement, counting, etc., and a variety of auxiliary lines and reference line tools are provided.



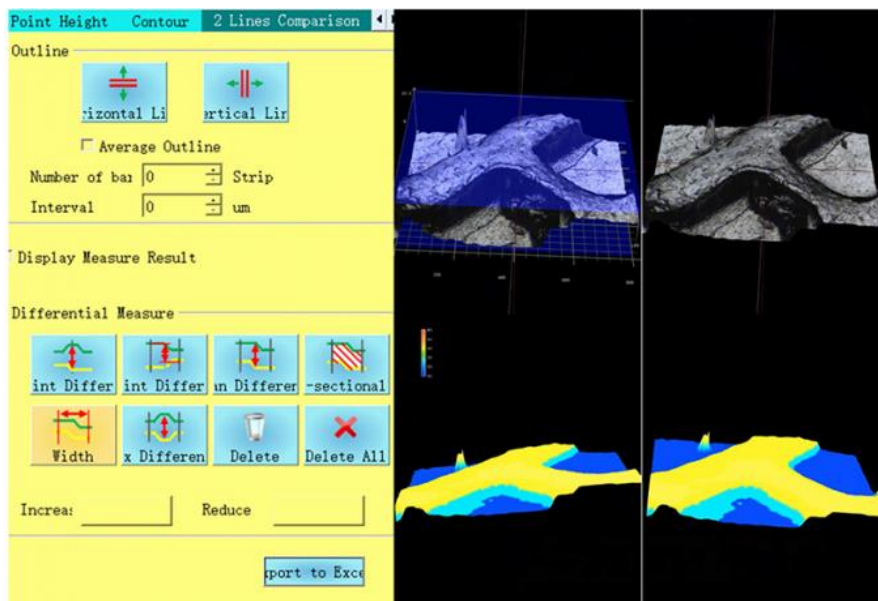
### One Click Auto Measurement

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



### 3D Stitching

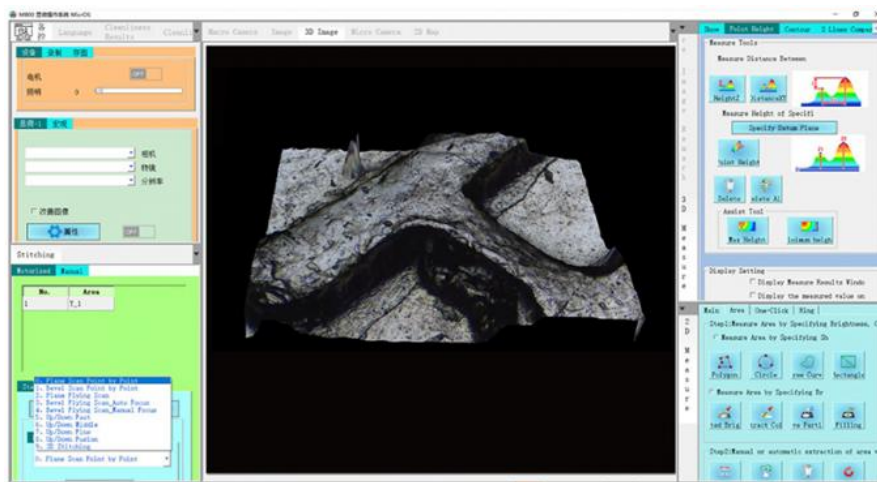
3D stitching mode can automatically focus on uneven objects, take pictures at different heights, obtain a full-frame clear 2D image composed of all clearly focused images, and stitch all focused image together to form a 3D image, and retain all the 3D measurement data of the observed object



### 3D Image Comparison

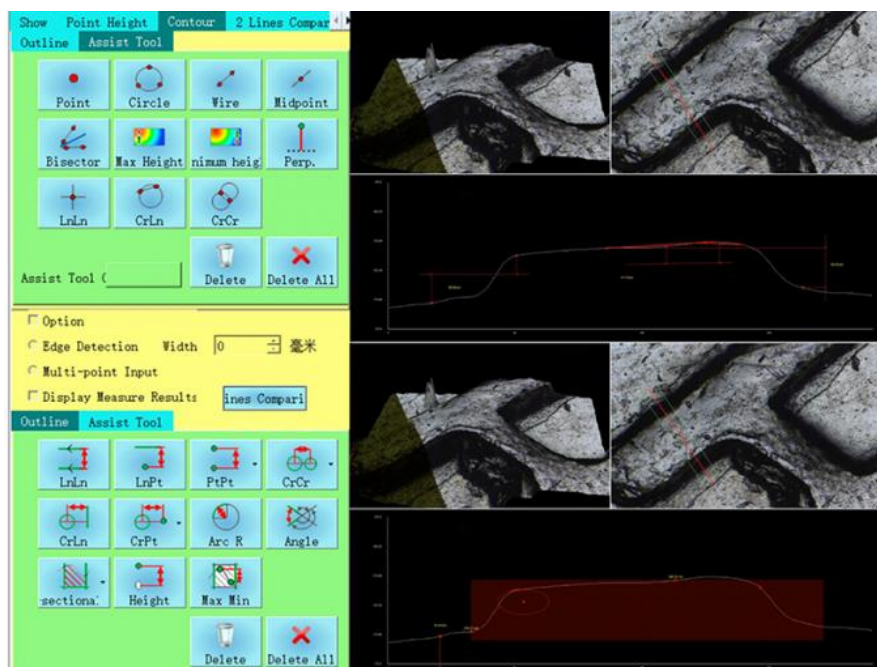
Two 3D images can be opened at the same time, synchronously rotated, zoomed in and out, compared and analyzed, and the comparison results such as height difference and shape difference can be automatically displayed through color identification





### 3D Image View

The saved 3D image can be opened at any time, controlled by the mouse to rotate freely, zoom in and out, open the ruler, color identification and other auxiliary tools, which is convenient to visually observe the 2D surface shape and 3D structure of the object from any angle



### 3D Measurement

3D image also saves all the three-dimensional measurement data of the observed object, and supports any measurement of the observed object later, including the height, depth, length, roughness, convex area, concave area, convex volume, concave volume, etc



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