

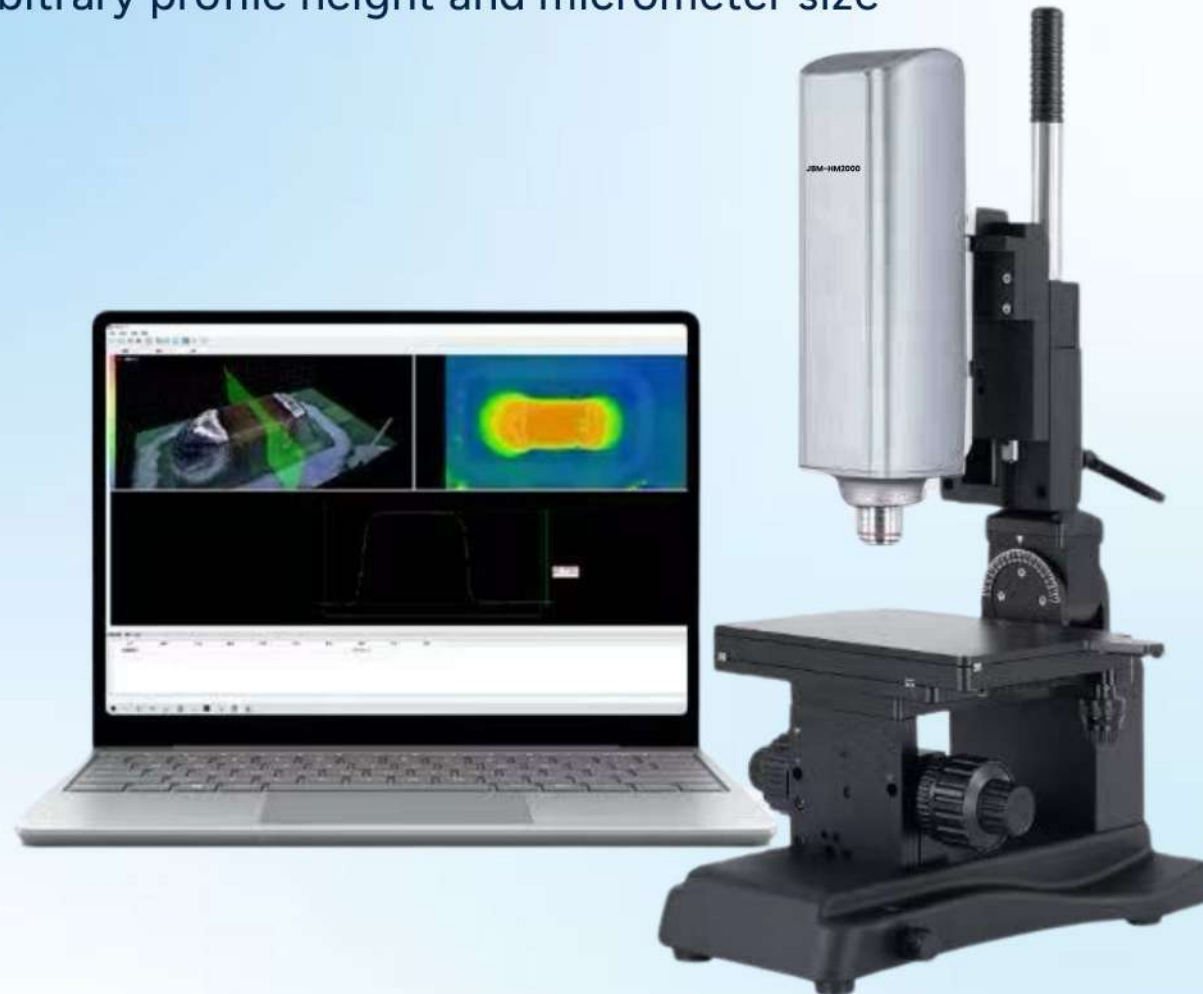
**LIGHT DARK FIELD SUPER DEPTH 3D
MEASURING INSTRUMENT JBM-HM2000**

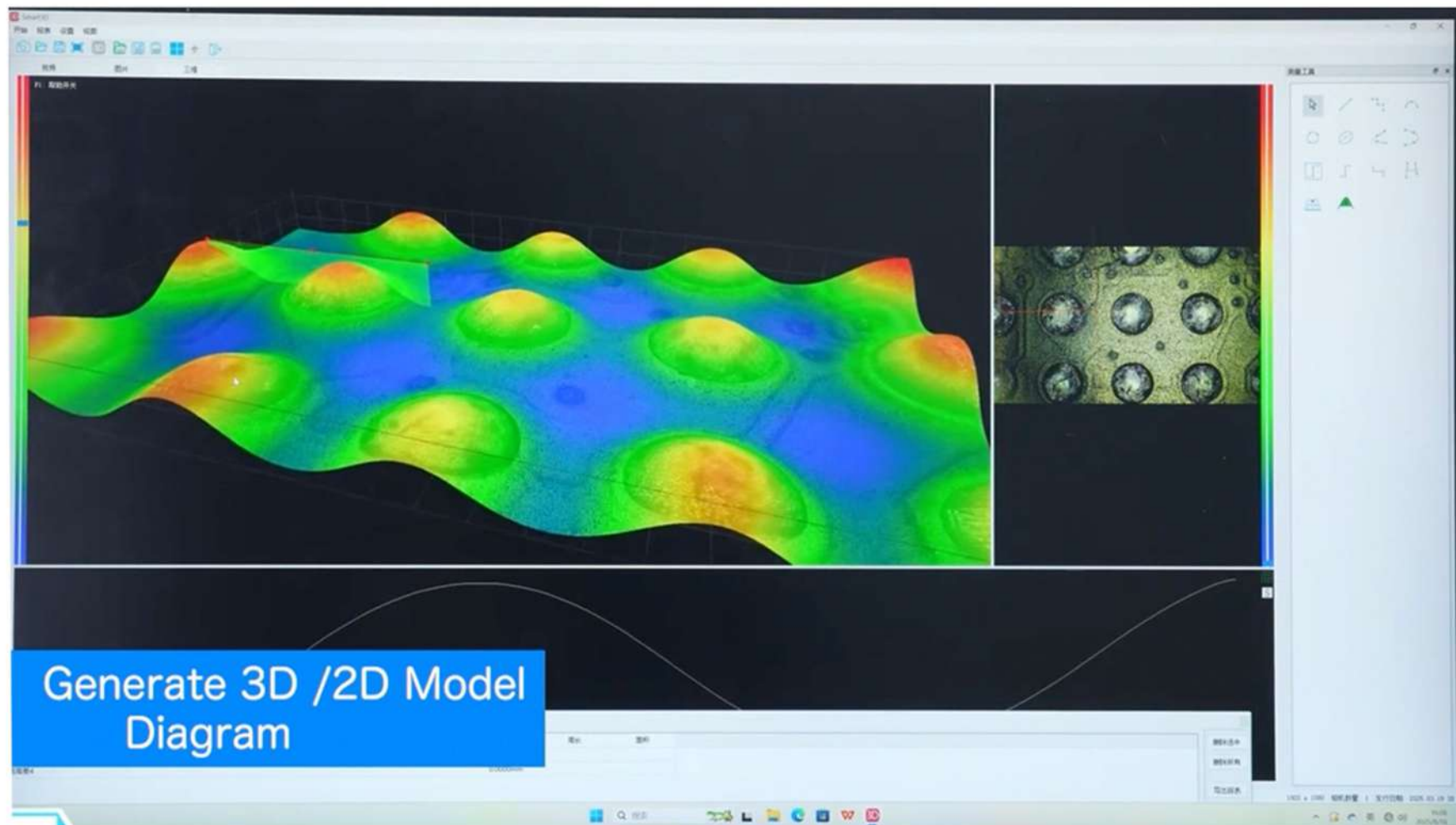


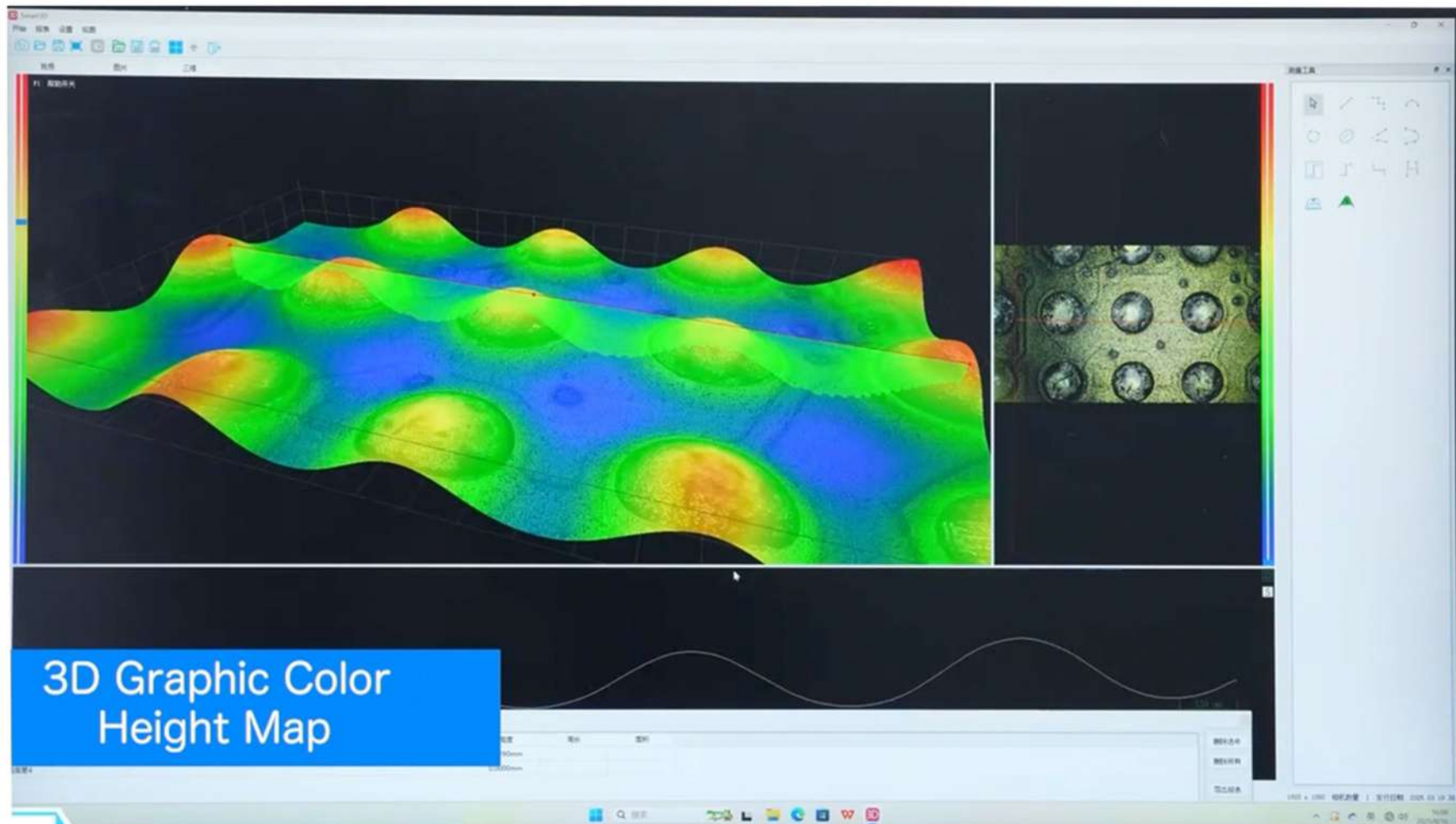
LIGHT DARK FIELD SUPER DEPTH 3D MEASURING INSTRUMENT

3D stereoscopic modeling, quickly generating super depth of field images, viewing at any angle of 540 degrees.

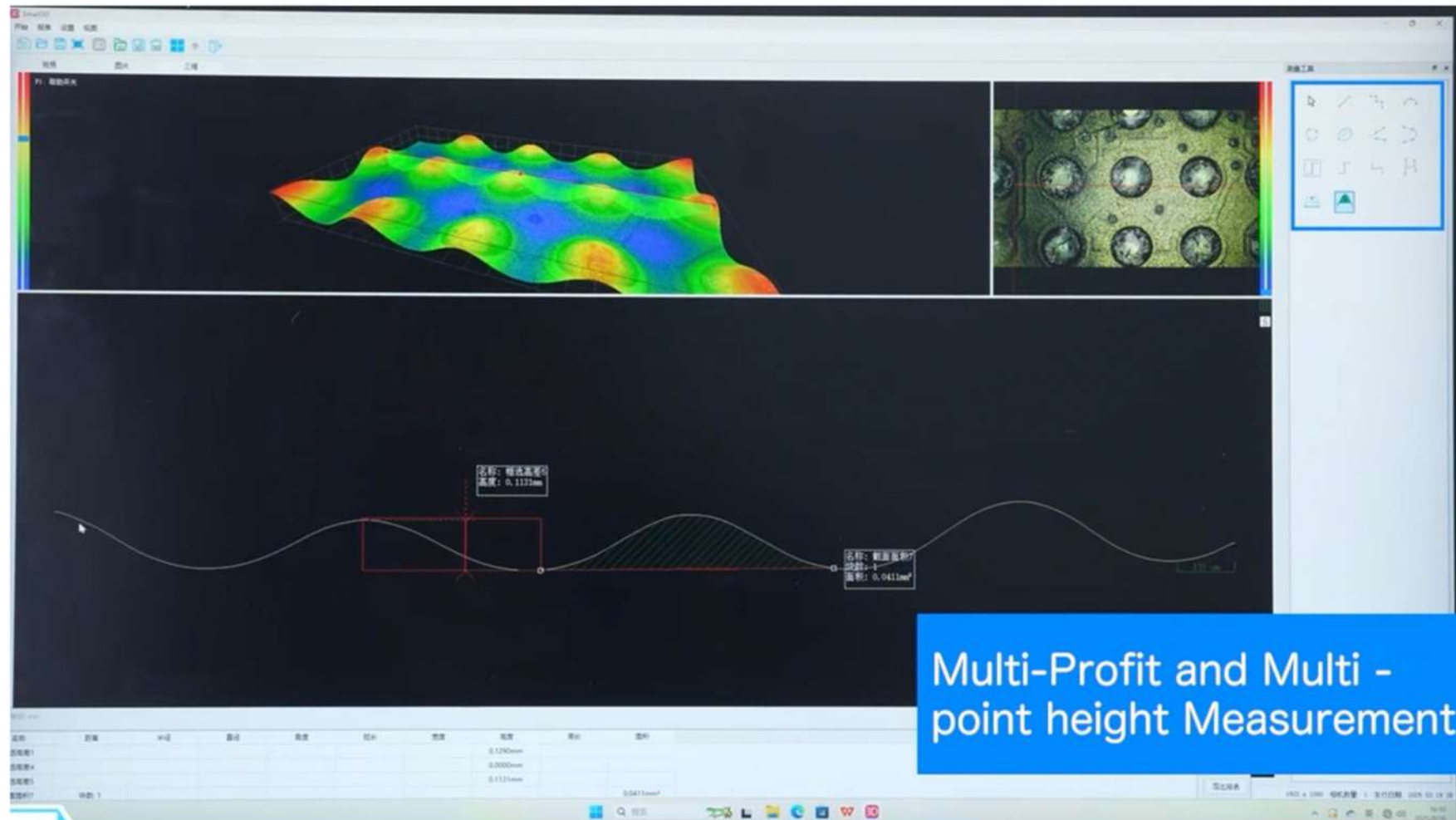
Measurement of arbitrary profile height and micrometer size measurement.







3D Graphic Color
Height Map



Multi-Profit and Multi -
point height Measurement

1. 3D super EDF Microscope Camera

Easy to use: No computer required, perform 3D observation and measurement

Wide applications: Equip with metallographic, stereo and other reflective microscopes

Accuracy measurement: $\pm 2\mu\text{m}$ measuring accuracy for 2D&3D with 10x objective lens.

The camera integrates features of high integration and flexibility. It can be directly used on reflective microscopes without any additional modification. The operation is easy to be done and all functions can be completed with mouse. Its built-in core technology can offer strong smart linkage performance guarantee for microscopic system. Built-in intelligent heterogeneous host can replace computer to carry out plenty of calculating works directly, and the operation is speedy and stable. Real-time super depth of field and 3D modeling algorithm can contribute microscopic system to achieve comprehensive three-dimensional observation and measurement analysis. Meanwhile, the automatically edge recognition algorithm can also further improve the efficiency of microscopic observation and batch operation.

2. Core technology creates a strong linkage performance

A heterogeneous system

Possess ability for high-speed data calculation

Three computing algorithms

Super depth of field

3D modeling

Edge recognition

Four-in-one system

High-speed camera

Imaging analysis software

Z-axis motorize stage

High-performance host

Upgrading the capability of your microscope

2D observation

Super depth of field

3D measurement

2D auto measurement

3. Core technology creates a strong linkage performance

Open 'Capture-Advanced imaging-EDF&3D' function module in the software. Confirm the position of the upper and lower focal planes to be observed in the image with mouse. Click 'EDF'. Then the camera will automatically fulfill the depth of field, showing all features on the image.

Real-time EDF for clear microscopic observation

Ordinary microscopes cannot focus on multiple layers at the same time under high magnification. It is easy to cause angle deviation, rotation and uneven focal plane by using third party software and hardware systems to expand the depth of field. The inner smart EDF algorithm of the camera can help solve these problems, capturing a clear and correct full-frame focusing image.

Real-time WDR to eliminate strong reflection

Strong reflections on the metal surface may lead to misjudgment of details. The camera provides its WDR function to capture the perfect exposed images by calculating data in real time from multiple images of different brightness levels.

4. Create 3D matrix and easily measure any location

Open 'Capture-Advanced imaging-EDF&3D' function module in the software. Confirm the position of the upper and lower focal planes to be observed in the image via mouse, and click '3D'. Then it will automatically complete 3D modeling. You can observe the real scene or pseudo-color model with 360° rotation.

5. Rich 3D measurement functions

The camera provides a wealth of 3D tools for easily measuring any position of the 3D model and recording the data in real time. With the metallographic microscope of 10X objective lens, the Z-axis measurement accuracy and repeatability is $\pm 2\mu\text{m}$ and $\pm 1\mu\text{m}$. The higher magnification objective lens, and the higher precision data.

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