



NUH SERIES

DIGITAL MICROSCOPE

MAKE MORE ACCURATE

**METROLOGY SOLUTIONS
FOR ALL MANUFACTURINGS**

High Precision | Smart Software | R&D Team

ABOUT JINUOSH

CUSTOMER FIRST QUALITY CONTROL TEAM WORK

Guangdong Jinuosh Technology Co., Ltd. is a hightech enterprise engaged in the research and development, production and sales of optical microscope, precision measuring instruments experimental equipment and various optica components and components, with a technical team and management team specializing in the development of advanced products and process research.

Always follow: "customer first, quality first perfect" quality policy, wholeheartedly for domestic and foreign customers to provide beautiful shape, excellent performance, reasonable price, user satisfaction's testing equipment products, the products are mainly exported, our company has won the trust and praise of many customers by providing allround assistance, high quality and sincere service. The company has gradually established the leading position in the testing instrument industry in China. In the domestic and international markets to establish a good brand, with its strong strength and good reputation in the industry, to become the world's top brands of excellent partners.

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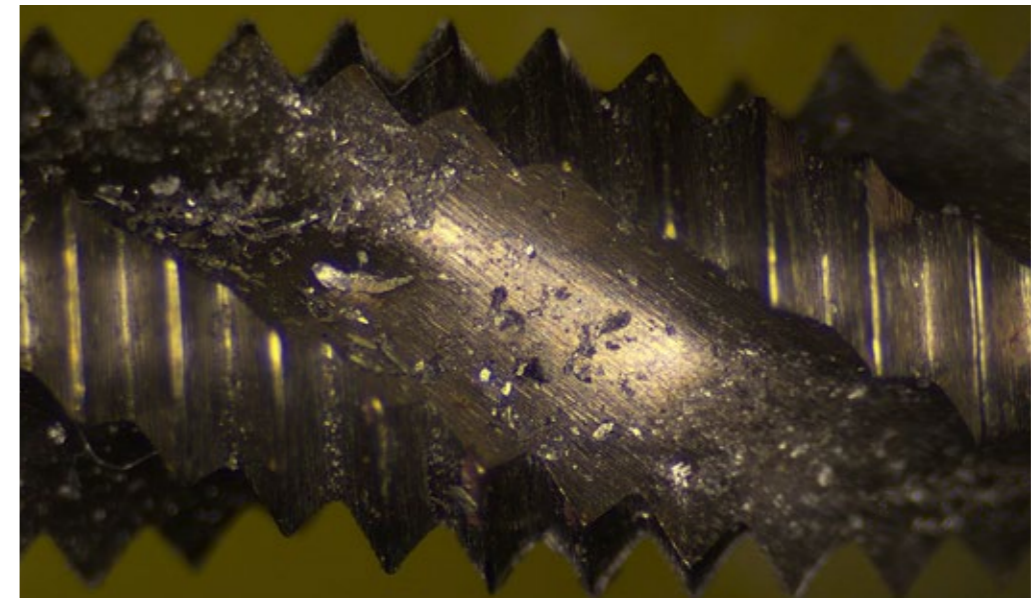




High
magnification
observation

Observation with High-Magnification and a Large Depth of Field !

NUH series digital microscope is mainly used for the observation, measurement and analysis of surface micro-morphology. Different from traditional optical microscope, NUH series digital microscope has larger depth of field, wider field of view, higher magnification, more comprehensive observation angle and better lighting mode. Even novice users can capture high resolution images with ease.



Fully automatic control, More convenient

The three-axis is controlled by the software system,
The user only needs to place the target on the stage,
and everything else (including alignment, focusing,
magnification switching, etc.) is fully automatic.

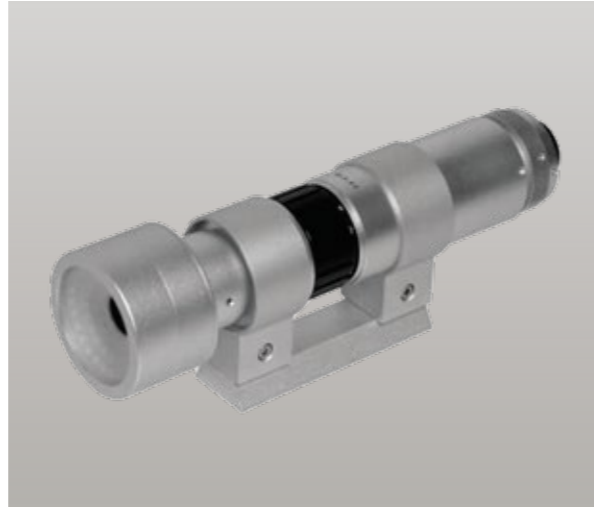
Depth Compositing: Real-time focus
2D measurement: measurement and
calibration; distance, width, angle,
circle radius, diameter, area, parallel
lines, vertical lines; scale display, etc.
3D measurement: 3D model display,
Profile output, contour color diagram;
height and width measurement
between two points. Presenting clear
plane map and 3D contour map after
depth of field compositing. The screen
can simultaneously present three
pictures: 3D contour map, sample
original color depth of field composit-
ing map, contour data map.



NUH Series

Ultra-depth of field, No **20~220X** magnification clicks Zoom lens

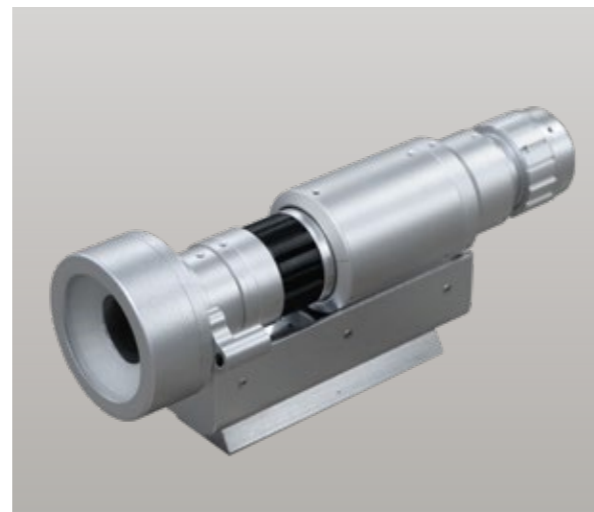
The rangefinder lens with a magnification of 20~220x can be used to achieve greater effect in low magnification measurement. It enables to obtain less distorted images in low magnification and wide field of view observation. The lens has a handheld in-situ observation function. It can be used with special diffuse illumination adapter to eliminate glare on the material surface.



Model	V-L20
Magnification	20~220x
Field of view	23.5~2.1mm
Working distance	90mm
Zoom clicks	1~8 level

Ultra-depth of field, **38~460X** Long-working-distance Zoom lens

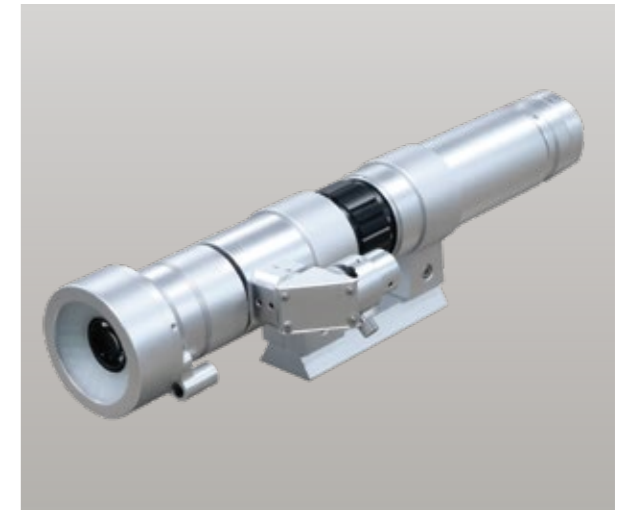
The large-aperture zoom lens with an ultra-long working distance and excellent operability. It enables high-quality and immersive observation that is only possible with a large-aperture lens.



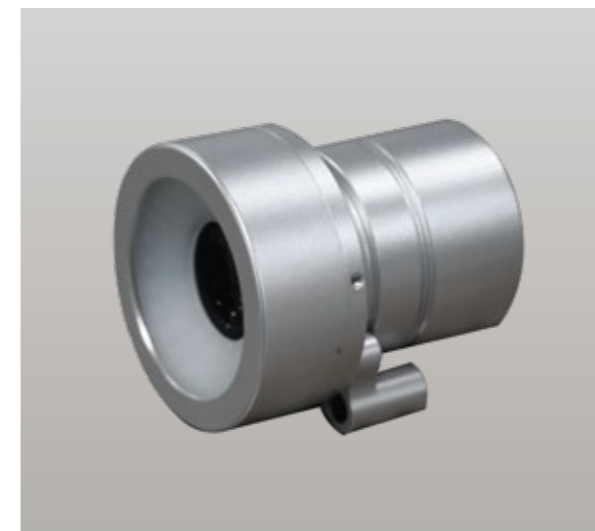
Model	V-M40
Magnification	38x~460x
Field of view	17.5~1.8mm
Resolution	10.0μm
Working distance	80mm
Zoom clicks	1~10 level

Wide-Range, High-Resolution Zoom lens **Interchangeable objective lens**

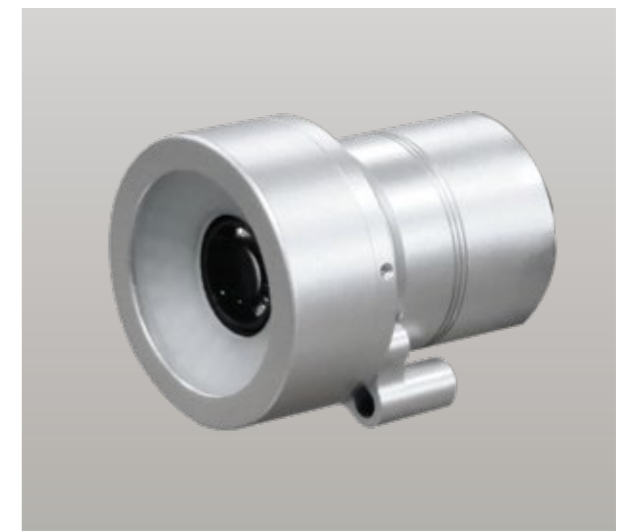
Co-axial illumination zoom lens ,its observation magnification can up to 3300X. High scalability and high-resolution lens for Bright-field or Dark-field observation of the object being measured.



450~1650X



900~3300X

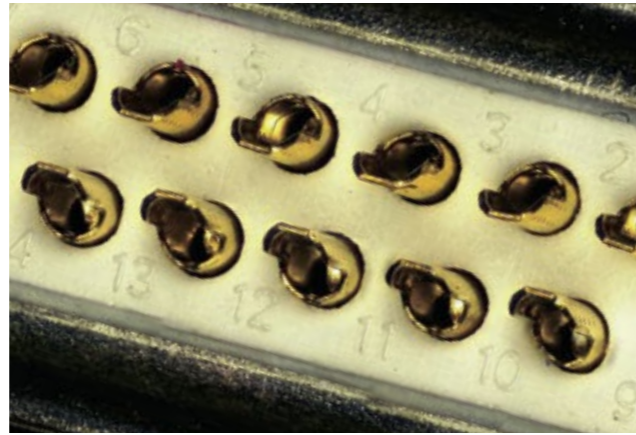


Model	V-H450	V-H900
Magnification	450~1650x	900~3300x
Resolution	2.0μm	1.0μm
Working distance	35mm	31mm

NUH Series

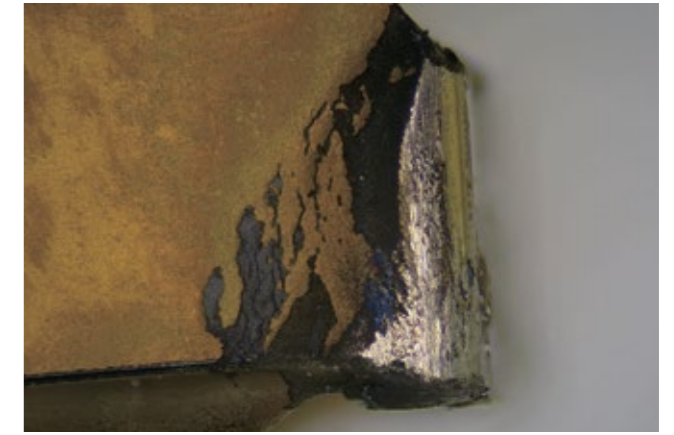
Tilt observation

The composition can include images captured from an angle, When images are captured, the Auto Adjust function automatically compensates for the edge displacement and vibration that can occur during depth composite. The system then goes on to construct a highly comprehensive, fully-focused image.



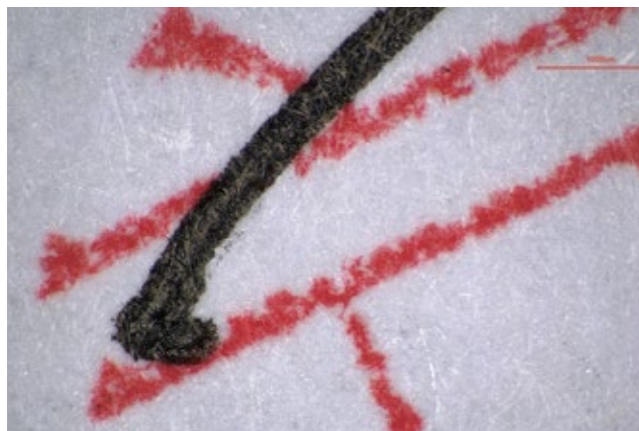
Automatic depth of field compositing

Select the upper and lower limits of the sample to be observed, set the number of photos, and the depth of field can be automatically composited with one click.



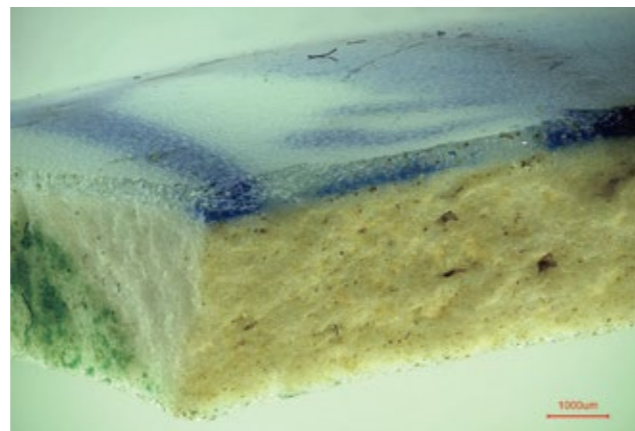
High-definition analysis

The lighting angle can be changed arbitrarily. Due to the change of angle, the surface irregularities are easier to observe, and burrs and scratches can also be easily identified.



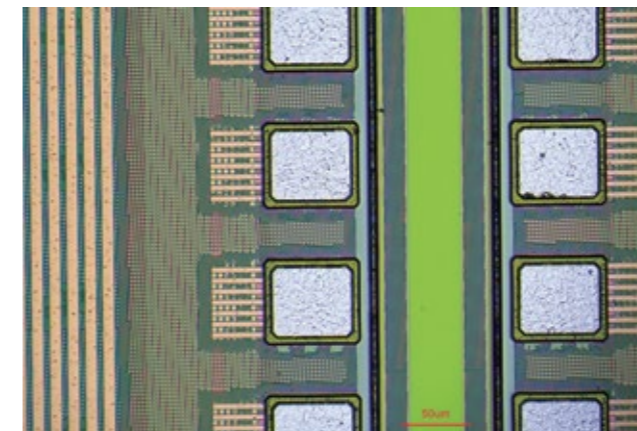
Polarising illumination

By cutting off specific wavelengths of light, reflected light is suppressed, allowing objects to be clearly depicted. When observing coatings beneath the surface of the coating (such as printed materials, substrates, and skin), invisible morphologies are revealed.



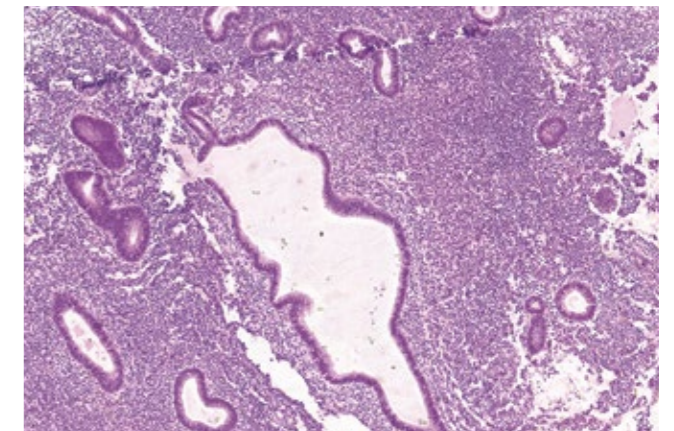
2D image stitching

Stitching and capturing images are performed simultaneously, combined with the automatic correction function, which can eliminate optical distortion and image dislocation.



Transmission light

Polarization observation can be performed in transmitted illumination, where the object is illuminated from below. This is effective for observing transparent films, biological materials, starch powder, etc.



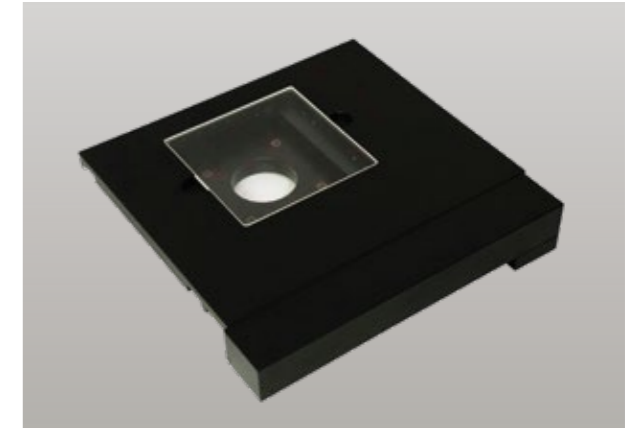
High-precision tiltable bracket

One-hand adjustable tilt bracket, $+45^{\circ}\sim-45^{\circ}$
lateral observation, convenient and easy to operate.
The maximum angle can reach $+90^{\circ}\sim-90^{\circ}$, allowing
observation without blind spots.
XY standard electric control platform,
ultra-high positioning accuracy, making
positioning more accurate.



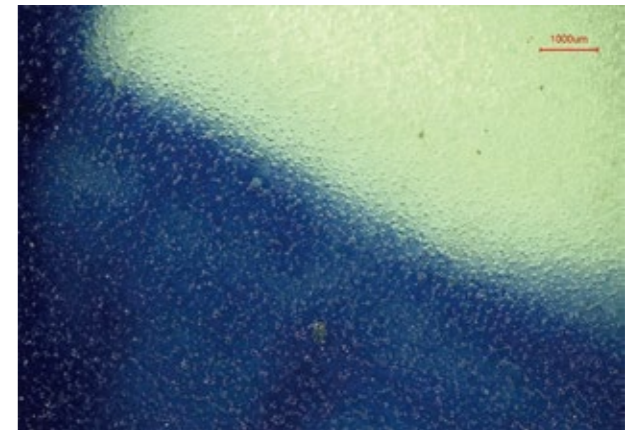
Large electric worktable

The NUH digital microscope is equipped with a high-precision large electric X Y worktable offering $100\text{mm}\times 100\text{mm}$ of travel. The worktable can be customized according to the actual sample, avoiding the tedious manual operation and enabling more sensitive control of the equipment.



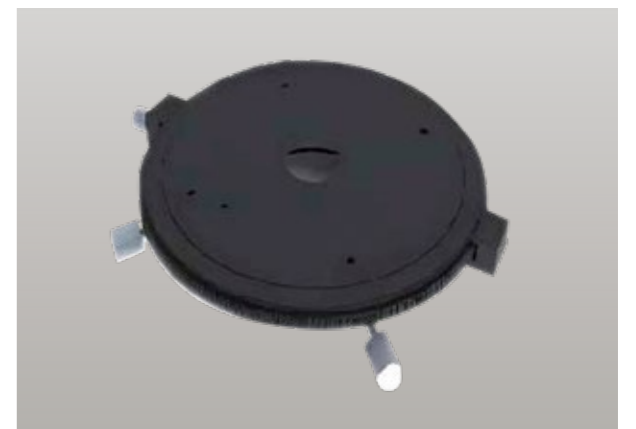
Multi-lighting

Choose different integrated LED lighting options according to the sample, application and task. Use ring light in full or in part on rough surfaces, or choose coaxial lighting for flat reflective samples. You can also combine lighting modes to achieve better results for different products.



Rotating table

The equipment can be equipped with a rotating table, so that the product can be observed without moving it. The sample can be observed from multiple angles by rotating the platform.



Observation Functions

Multiple
observation
modes bring
ultimate experience



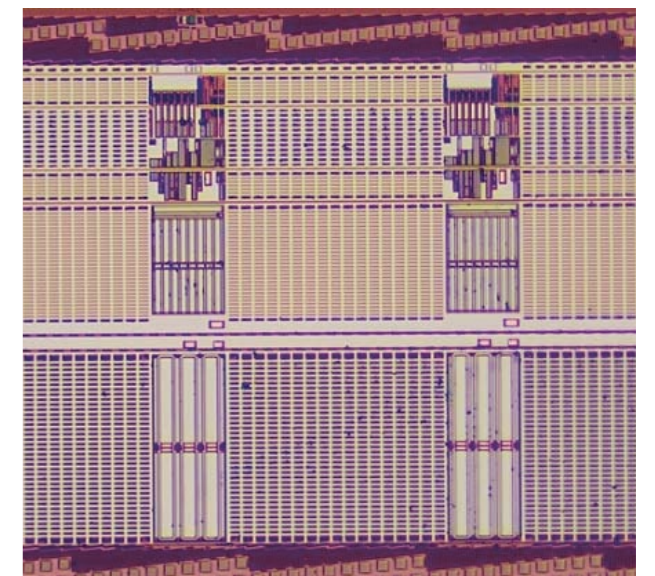
Large depth of field mode

By using software algorithms to synthesize images with a larger depth of field from images taken at different focal lengths, more details of demo can be presented.



Large field of view mode

Help you see the full picture of demo and present its features perfectly.



Capture Functions

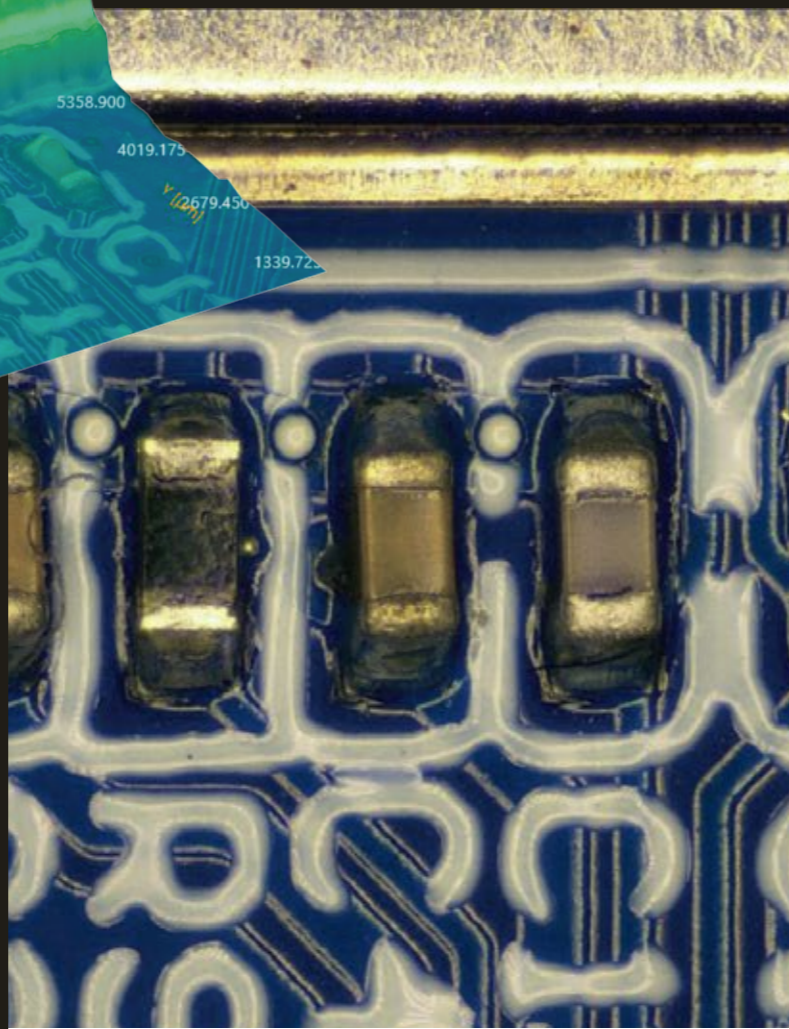
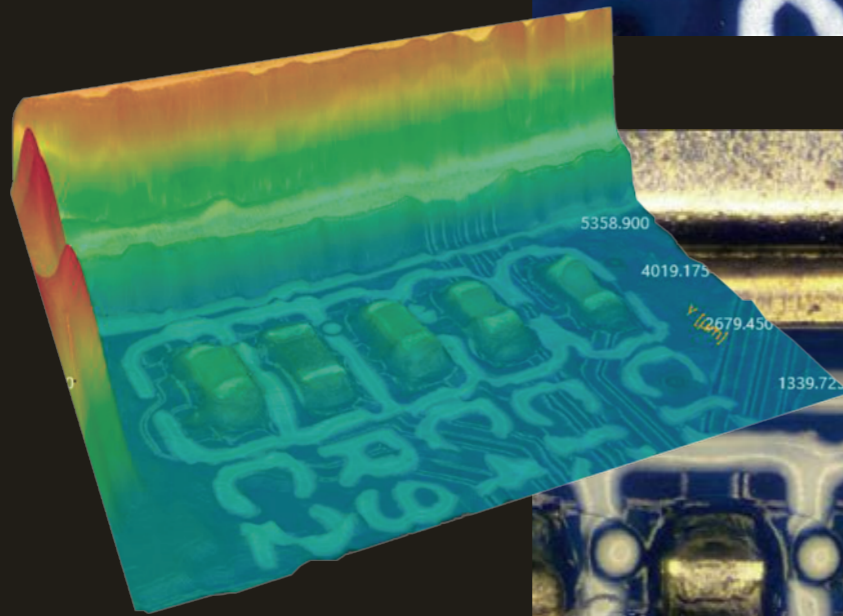
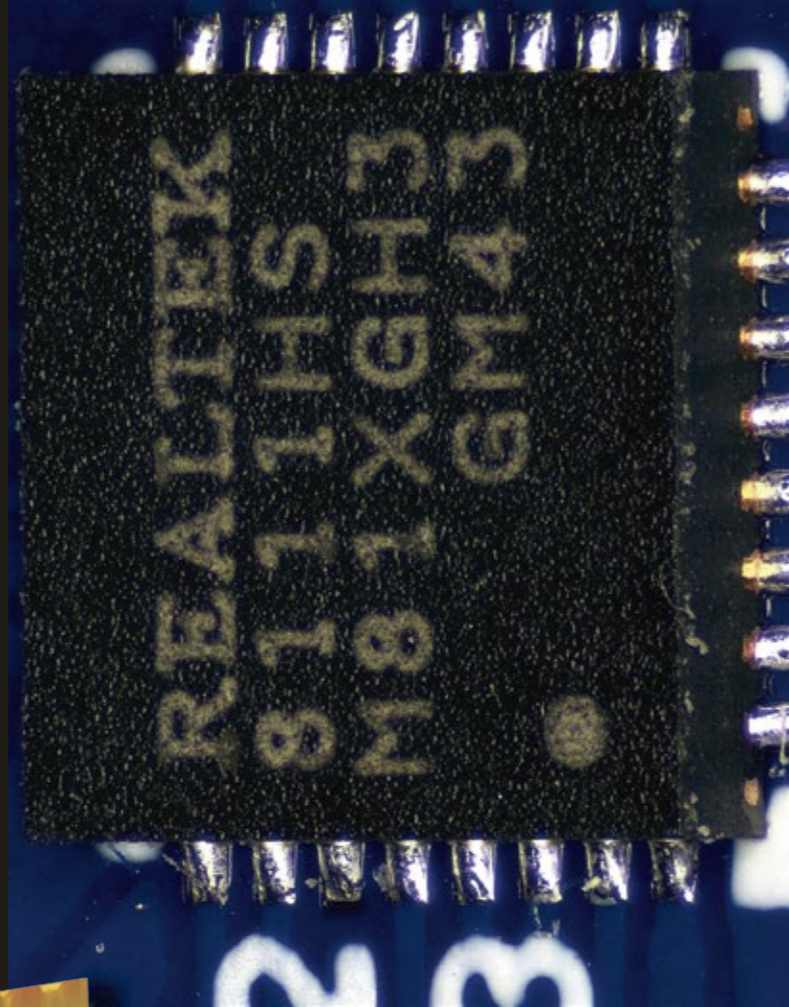
CMOS image sensor

delivers highest resolution

The CMOS image sensor

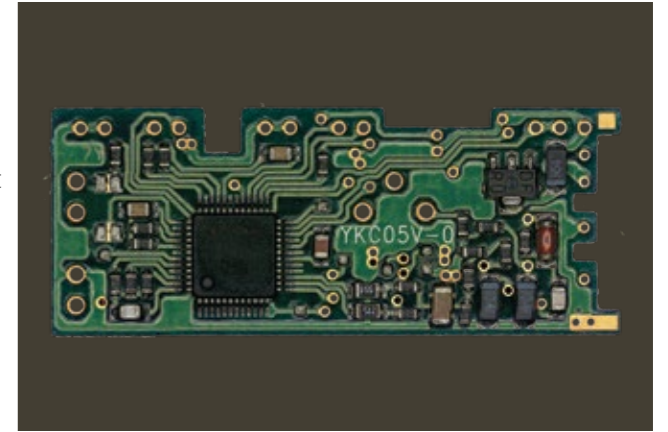
ensures high resolution and

low noise



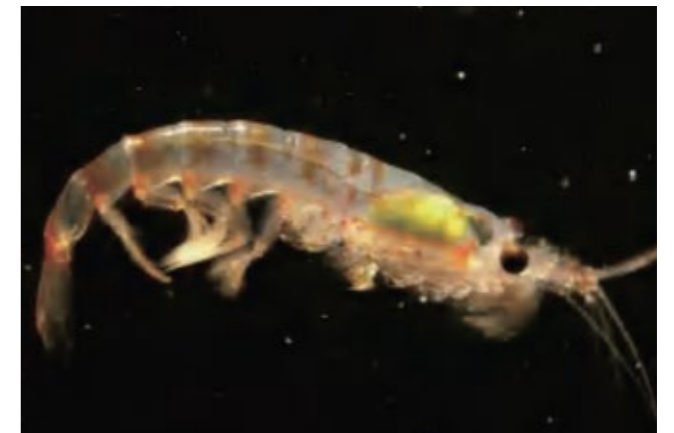
3D full vision stitching

Perform a wide variety of measurements with just one device in full 3D vision, inspecting demo in a micro world, achieving the advanced measurement capabilities.



Capture and Video recording

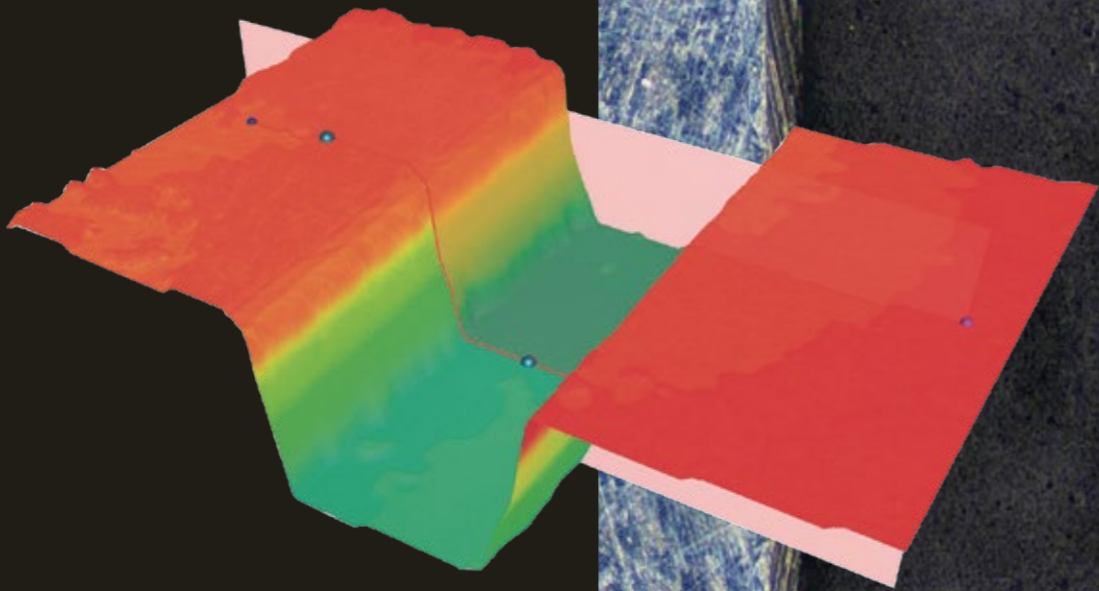
View, capture and measure with an all-in-one system.



Measurement Functions

A variety of easy
accurate

Measurement Functions



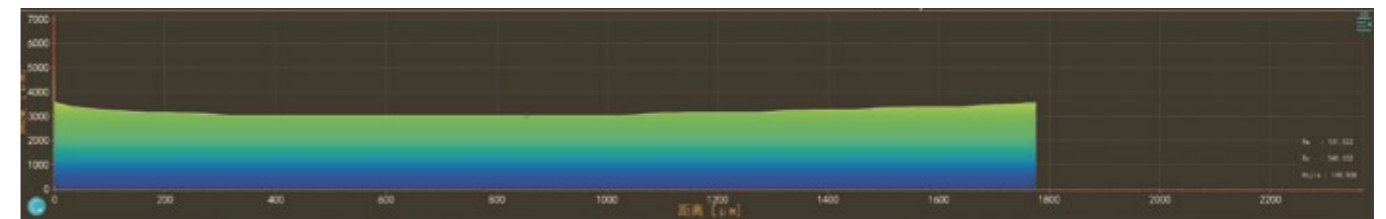
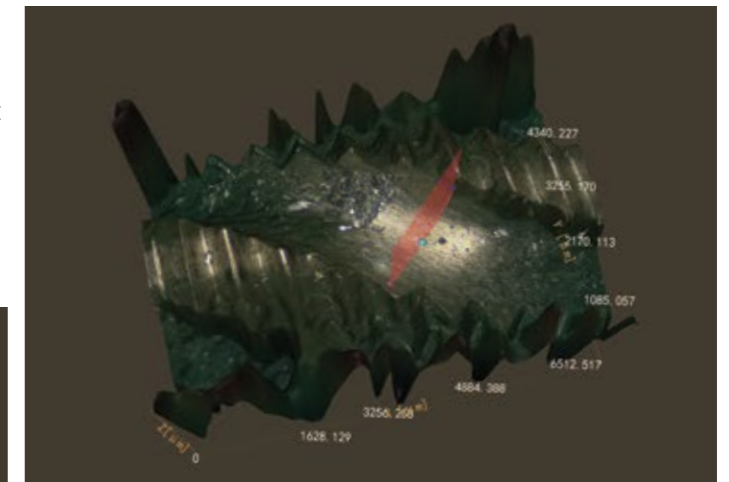
Using simple mouse operations, a wide range of measurements – including distance between 2 points, angle, diameter, parallel lines, area and so on – can be performed on the screen in real time.

Even when the target has an uneven surface, a fully-focused image is obtained instantly, composed from multiple images with varying focus positions. Additionally, 3D display can be used to observe surface contours.

Roughness measurement

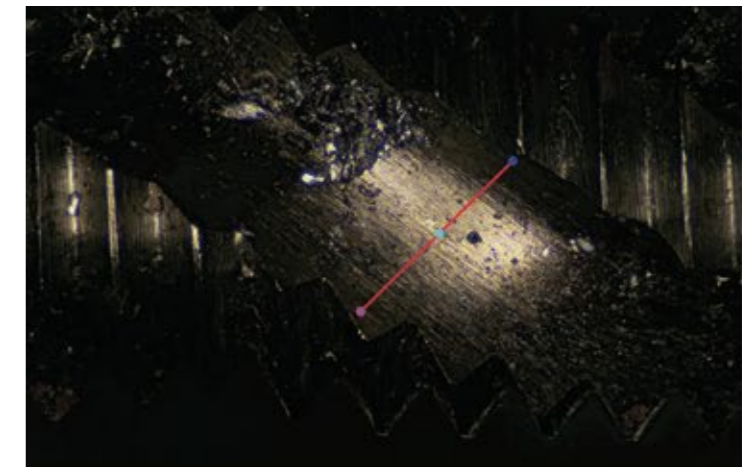
By displaying roughness and waviness curves on the profile, you can Roughness measurement (Ra, Rz, Rzjis). The cutoff value can also be selected. object table;The difference in surface can be expressed numerically.

..... Ra : 131.522
..... Rz : 548.032
..... Rzjis : 140.506



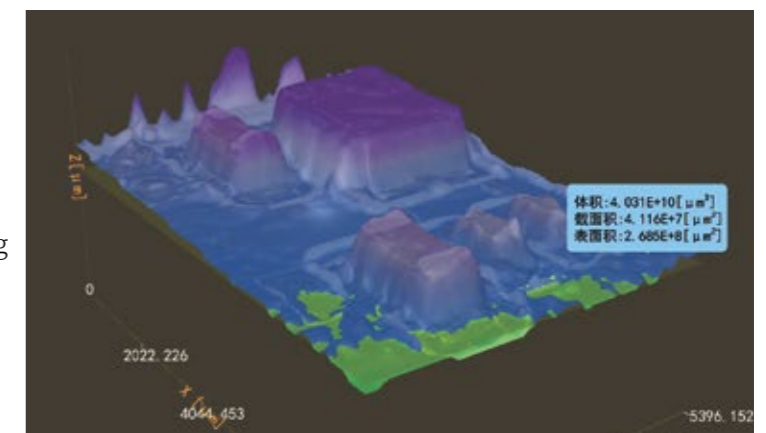
2D measurement

Using simple mouse operations;Once the image has been saved, additional features can be measured at a later time. With free communication software, anyone can use the measurement functions with ease on their own PC.



3D measurement

Even when the target has an uneven surface, a fully-focused image is obtained instantly, composed from multiple images with varying focus positions. Additionally, 3D display can be used to observe surface contours.



Machine Configuration

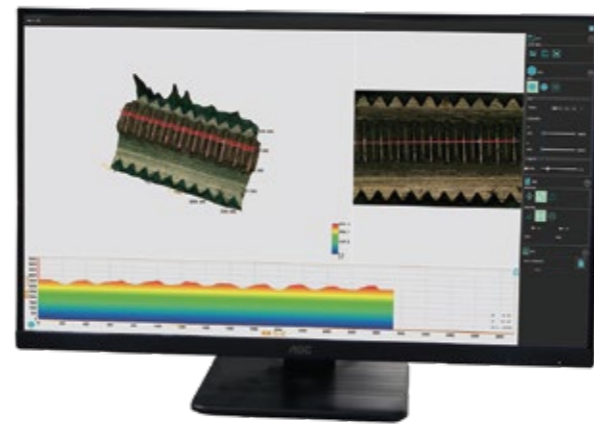
3D Digital Microscope



High performance Controller



Software



Specifications

Camera	Image Sensor	1/1.8 inch with CMOS image sensor
	Resolution	6.3MP
	Total Pixels	3072 × 2048
	Scanning system	Progressive line by line
	Pixel size	2.40μm × 2.40μm
	Frame rate	30fps(max)
Stage(motorized)		100mm × 100mm
Z axis(motorized)		82mm
Built-in light source	Light source	LED
	Life span	40000 Hours
	Temperature	5700K(Typ)
Interface	PC export	USB3.0
	Column stand	Special interface*1
	USB Interface expansion	USB3.0
Power supply		220V/200W
Weight	Controller	3KG
	Main body	15KG
	Camera	1KG
	Joystick	0.5KG
Size(mm)	Main body only	L × W × H: 450mm × 290mm × 710mm