

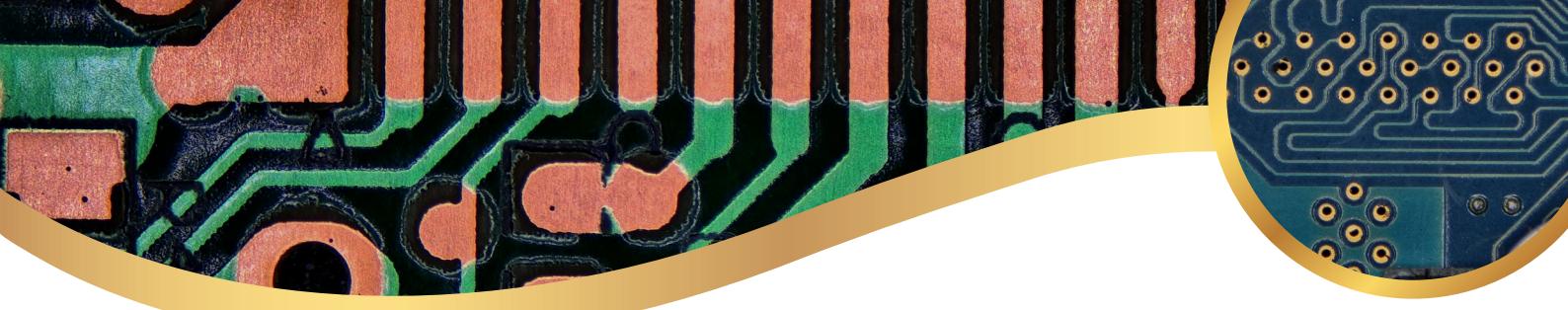
KoPa®

4K Zoom Video Microscope



CE210T Series Option A

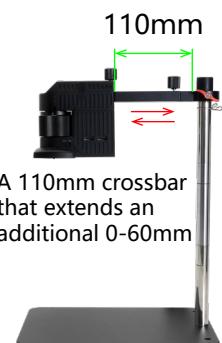
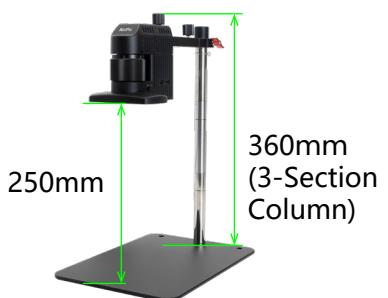
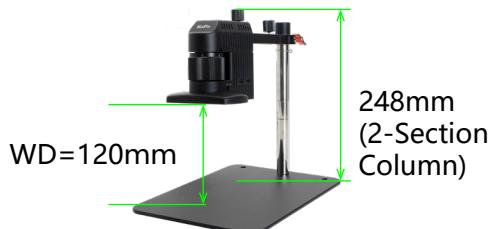
Model: CE210T Category: AJ-08

**01**

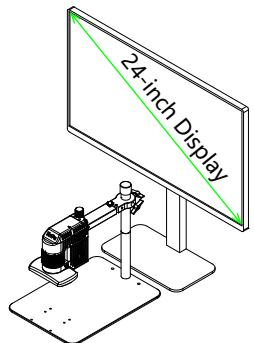
Compact footprint, generous workspace



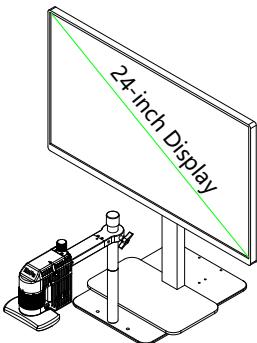
Flexibly adapts to your task. The standard 3-section column and an extendable crossbar create a versatile workspace.

**02**

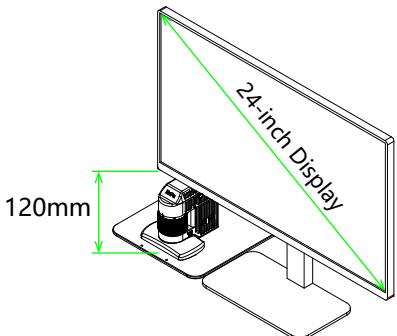
Compact by design. The CE210T centers perfectly for a fatigue-free view



Placement reference 1



Placement reference 2



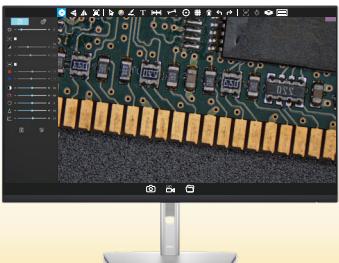
Compact storage mode
(Best with 24"+/4K display)

03

Delivers 4K 60Hz video through either HDMI 2.0 or USB 2.0 output

4K

Powered by a Sony IMX678 (1/1.8") sensor, it ensures precise color reproduction with ultra-low lag; the camera auto-adapts to output natively to 4K or 1080p displays.

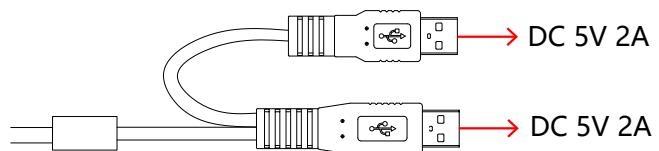




Plug and play via reliable USB 2.0. Engineered for robust connectivity. Uses universal USB 2.0 for reliable, industrial-ready performance, paired with dedicated PC software **KoPa Capture Pro**.



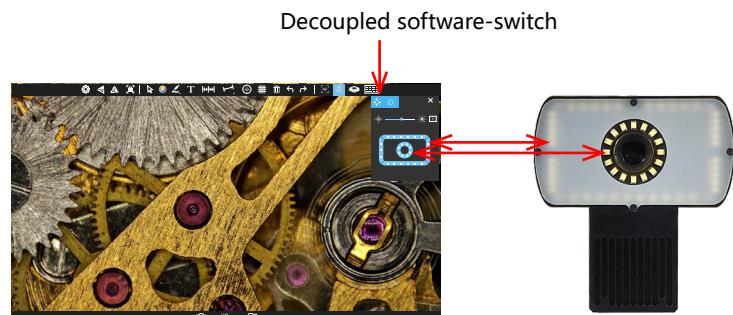
Flexible & Neat Power Solutions: Achieve stable power and a tidy desk with our dual-USB head design. Choose between the included DC 5V 4A adapter or direct PC connection—both streamline your setup by reducing cable clutter.

**04**

Advanced illumination system



Control everything with software: adjust brightness, switch between four independent zones, and toggle diffused/near-coaxial light. Experience vibrant, accurate color (CRI \geq 95, R9 \geq 92, 6500K color temperature) that reduces eye strain, powered by long-life 20,000+ hour LEDs.



Near-coaxial light

Power	< 1.3W
Input voltage	DC 5V
Dimming method	Dedicated LED driver IC with DC dimming
Center illuminance	390–1790 Lx (at WD 120mm)
LED quantity	16 pcs narrow-angle high-brightness LEDs
Color temperature	6500K
Adjustment method	Software-switch

Quad-zone diffused lighting

Power	< 2W
Input voltage	DC 5V
Dimming method	Dedicated LED driver IC with DC dimming
Center illuminance	190~5230Lx (at WD120mm)
LED quantity	40 pcs wide-angle high-brightness LEDs
Color temperature	6500K
Adjustment method	software-switch

*Combined maximum illuminance (Near-coaxial + Quad-zone diffused): 7100 Lx.

05

Precision rear Fine-focus



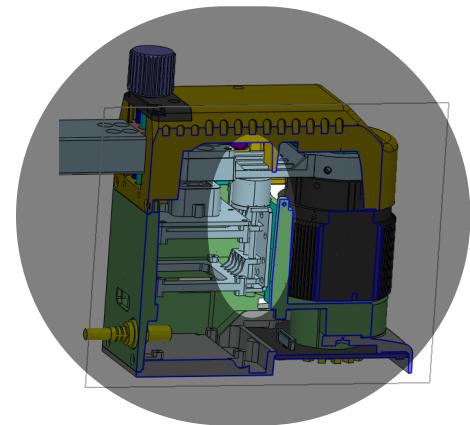
A gentle turn of the rear knob provides 15mm of smooth micro-adjustment, capturing fine sample details with accuracy and ease.

**06**

Steady, silent, strong



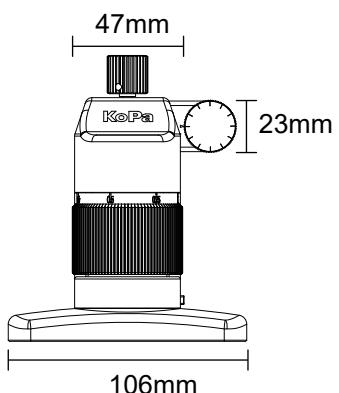
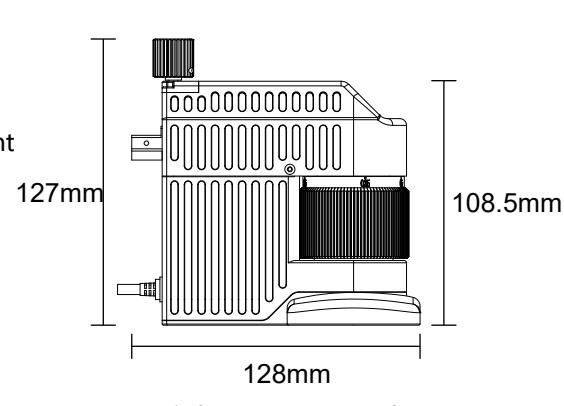
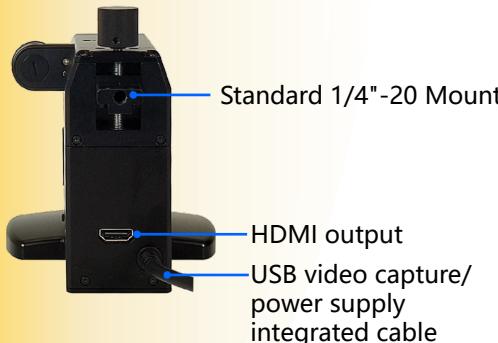
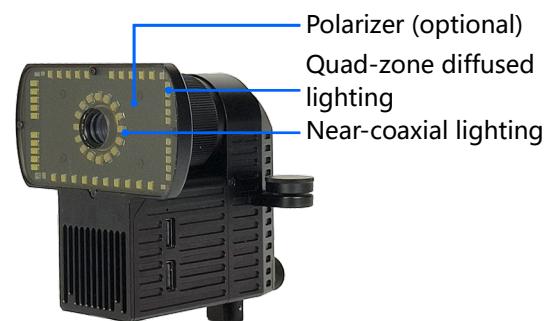
Featuring a precision stepper motor that runs quietly and smoothly without compromise, enabling you to tackle high-frequency tasks efficiently and consistently.

**07**

Standard 1/4"-20 mount for maximum flexibility



Feature a standard 1/4"-20 mount that supports DIY brackets, custom manipulators, specialized tooling, and automated systems



● Optical Specifications

Optical Magnification	Working Distance (WD)	Camera Field of View (L × W)
0.3-1.8X	120mm	26.5×14.9mm (at 0.3X)
		4.2×2.4mm (at 1.8X)

*Total system magnification (on 27" 4K display): 23–140X (optical + display pixel array, i.e., displayed length / actual object length)

● Camera Specifications

Physical Resolution	8.3MP
Sensor Model	SONY IMX678 CMOS
Exposure Mode	Rolling shutter
Max. Resolution	3840×2160 (8,294,400 pixels)
ISO Sensitivity	Equivalent to 100–12800
Sensor Size	1/1.8"
Pixel Size	2μm×2μm
Spectral Response	380-650nm
Exposure Control	Real-time auto / manual
Exposure Time	10us~10s
White Balance	Real-time auto / manual (R/B adjust)
Preview Resolution	3840×2160 60fps
Power Input	DC 5V 3A
A/D Bit Depth	12bit
OSD and Software	OSD: <i>KoPa View</i> Software for Windows systems: <i>KoPa Capture Pro</i>

● Image Output Formats & Resolutions

	4K display (HDMI)	1080p display (HDMI)	Computer (USB)
Live view	3840x2160 P60	1920x1080 P60	At H264 format: 3840x2160@60, 2880x2160@60, 2592x1944@60, 1920x1080@60, 1600x1200@60, 1024x768@60 At MJPG format: 3840x2160@30, 2880x2160@45, 2592x1936@50, 1920x1088@60, 1600x1200@60, 1024x768@60
Photo capture	Resolution: 3840x2160 Format: JPG	Resolution: 1920x1080 Format: JPG	Resolution (H264 or MJPG) : 3840x2160, 2880x2160, 2592x1944, 1920x1080, 1600x1200, 1024x768 Format: PG/BMP/PNG/TIFF
Video recording	Resolution: 3480x2160 Frame rate: 30fps File format: MP4 Video format: H264	Resolution: 1920x1080 Frame rate: 30fps File format: MP4 Video format: H264	Video recording resolution (at H264 or MJPEG) : 1920x1080(16:9) /1600x1200(4:3) /1024x768(4:3) Video frame rate: Approx.30fps Video format: MP4 or AVI

● Standard Accessories

①USB wired mouse



②HDMI cable (2 meters)



③Power adapter (DC 5V/4A, with dual-USB head for flexible connectivity)



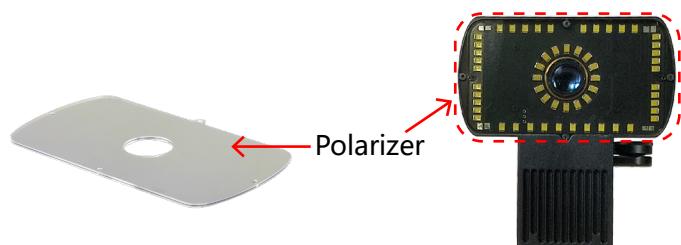
④Extension columns
x2 (120 mm each)



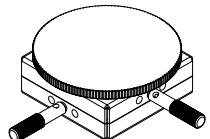
● Optional Accessories

①Precision Polarization Module

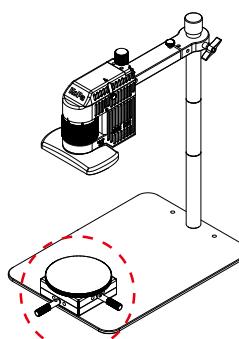
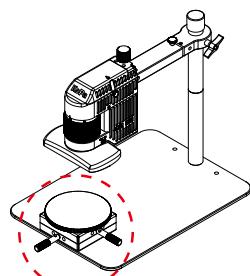
A compact unit featuring a 1000:1 extinction ratio with adjustable polarization angle.



②XY stage

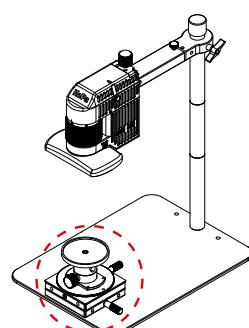
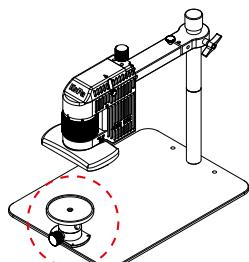


Effective Travel Range:
X=25mm
Y=25mm



Installation schematic

③Gimbal mount



Installation schematic

*Note: XY Mobile Platform with Universal Adjustment Base TBD.

►► OSD: KoPa View

01

True-to-Life Color with Advanced Image Controls

This core imaging system works in unison with the sensor and processing chip, translating complex capabilities into intuitive, adjustable settings for precise image optimization.



Quick Controls:

- Restore all factory defaults
- Reset individual parameters
- Save custom image profiles



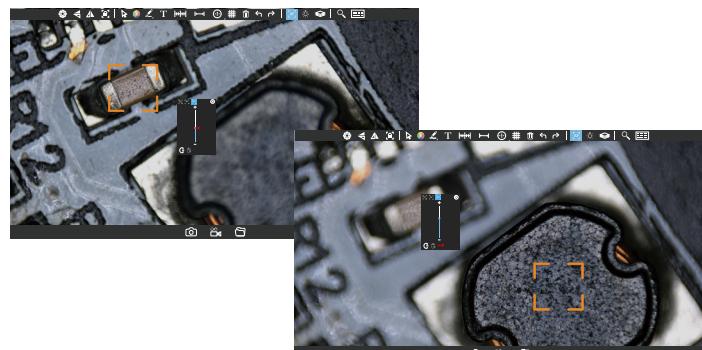
02

Smart focus, precision assured

MF Manual focus

Scroll the mouse wheel to focus effortlessly on complex surfaces—uneven, reflective, or multi-layered (e.g., solder joints, coatings, fine cracks).

Mouse sensitivity is 6 level adjustable to suit different needs.

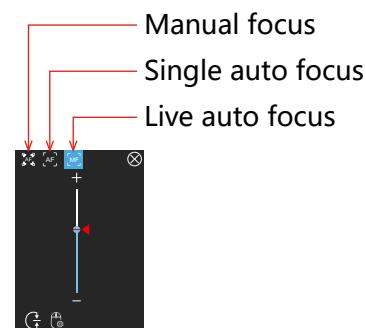


AF Single auto focus

Click the area you want to observe. The motor automatically searches until the sharpest focus is achieved at that location.

AF Live auto focus

Similar to Single Auto-Focus, click the target area and the motor begins searching. If the image changes, it instantly retriggers a focus cycle quickly locking onto clear imaging and significantly reducing inspection time.



03

Soft-Touch lighting control, detail perfected

Software-controlled illumination

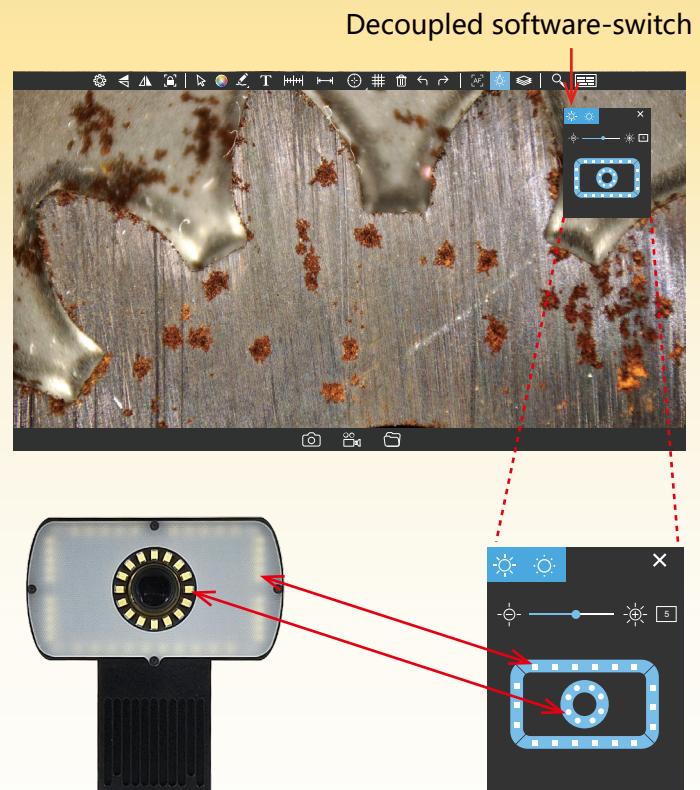
The CE210T series features a quad-zone lighting system, with all light sources (near-coaxial and diffused) fully adjustable via the *KoPa View*.

Flexible zoning

Each of the four zones can be independently adjusted. Mix and match brightness across different areas to reveal multilayer details of your sample.

30 step brightness adjustment

Whether dealing with highly reflective or low reflectance materials, optimize imaging with soft-switch dimming across 30 precise brightness levels.



04

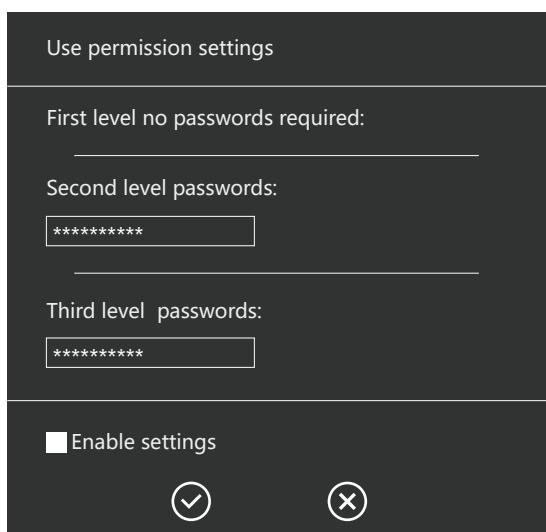
Smart Interaction, Efficient & Reliable

Intelligent Presets

Preoptimized image parameters for common scenarios—minimal adjustment needed for ideal results.

Intuitive Icon based UI

Functions are clear at a glance, making operation straightforward and easy to learn.

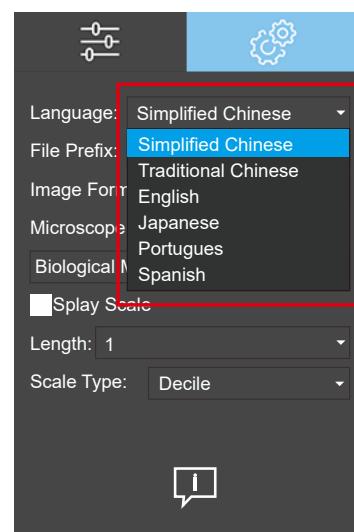


Three Level Access Control

Prevents unintended changes (default password for Level 2: Set123).

Multi Language Support

Switch instantly among Chinese, English, Japanese, Portuguese, Spanish, Russian, and more.



05

Focus Stacking (EDOF)

Manual Focus Stacking

Scroll the mouse wheel to define the scanning range, capturing and merging multiple focus planes across your area of interest.

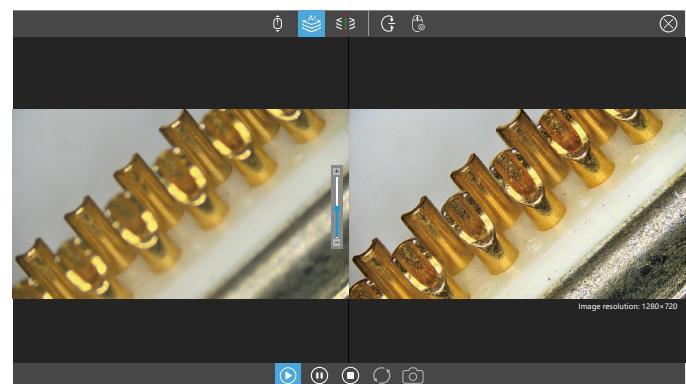
Auto Focus Stacking

Automatically identifies the sharpest areas in each frame and performs scanning and fusion.

Custom-Range Focus Stacking

Set the upper and lower limits of the motor travel, then scan and merge within this defined zone.

Return to preset par-focal position



06

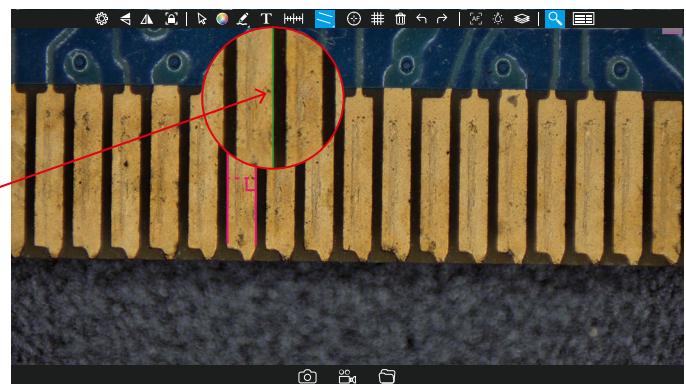
Auxiliary Tools

Auto Edge Detection

Quickly identifies and locates the edges of the object under inspection.

Magnifier

Locally zooms in to enhance visual detail. When using Auto Edge Detection, the magnifier helps users place measurement anchor points more accurately.

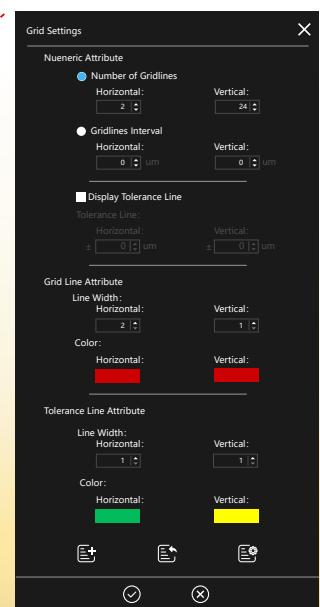
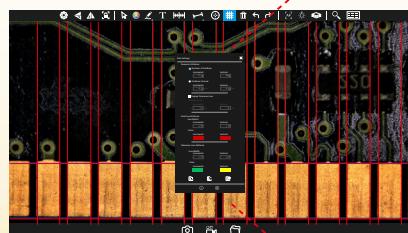


Grid Overlay & Measurement Tools

Grid Overlay & Measurement Tools

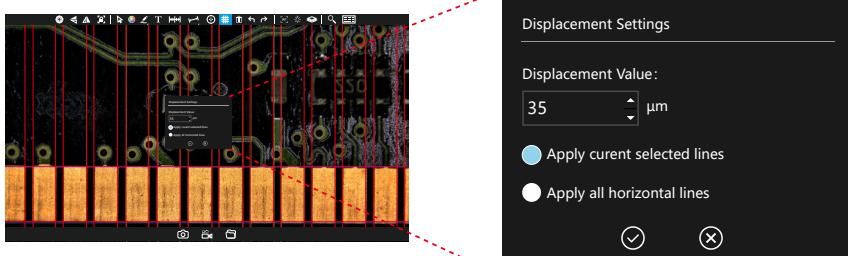
Customizable Grids

- Freely set the number of lines and spacing
- Customize line width and color
- Show or hide tolerance lines



Manage & Save Presets

- Add, import, and manage saved parameter sets
- Create custom styles: adjust spacing, color, width, and endpoint lengths



Smart Drawing & Controls

- Tap the toolbar to expand options; right-click to hide partial results
- Draw infinite vertical lines (double-click to end)

07

Precision Measurement & Annotation

Professional measurement tools paired with intelligent aids deliver reliable data for industrial inspection and scientific analysis.

Comprehensive Measurement Toolkit

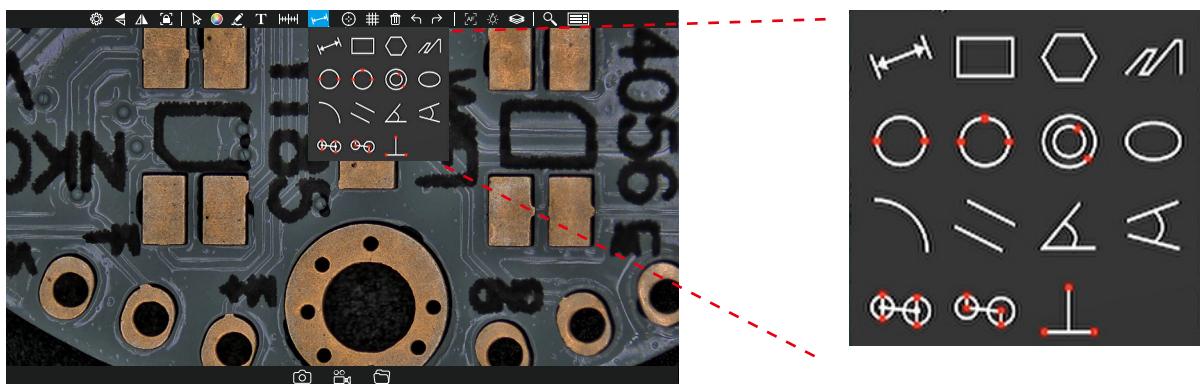
Includes: line, circle, rectangle, angle, parallel distance, arc, 3-point perpendicular, 4 point angle, ellipse, concentric circle, and more—covering everyday checks to complex analytical needs.

Calibration & Data Management

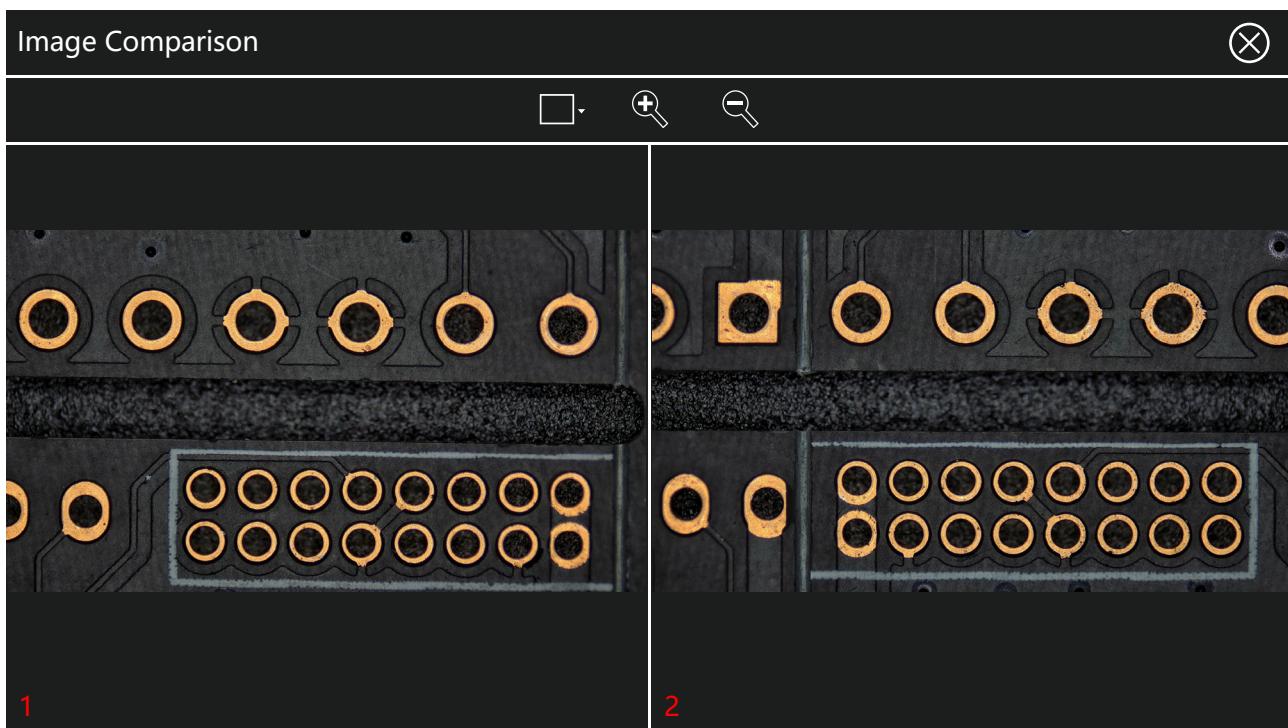
Calibrate once—ready anytime. The system saves calibration data automatically, even after power off. Restart without re-calibration, ensuring consistency and saving time. Quickly enable scale bars, crosshairs and other visual aids to support positioning and measurement.

Efficient Annotation & Markup

Annotate measurements directly onto the live image for instant clarity. All notes and marks are editable and savable, streamlining report generation and data traceability.



Ⓐ Ⓑ This feature displays the live inspection image alongside a captured reference image, enabling quick and precise identification of even the subtlest differences between test and standard samples.



KoPa® GuangZhou Ostec Electronic Technology Co.,Limited

Manufacturer: No.8 West Lane, Jiangcheng Road, Bangjiang East Village, Dalong street, Panyu District, Guangzhou, China. | <https://www.ostec.com.cn/>



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ISO9001 Verification No:00223Q26818R3S

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