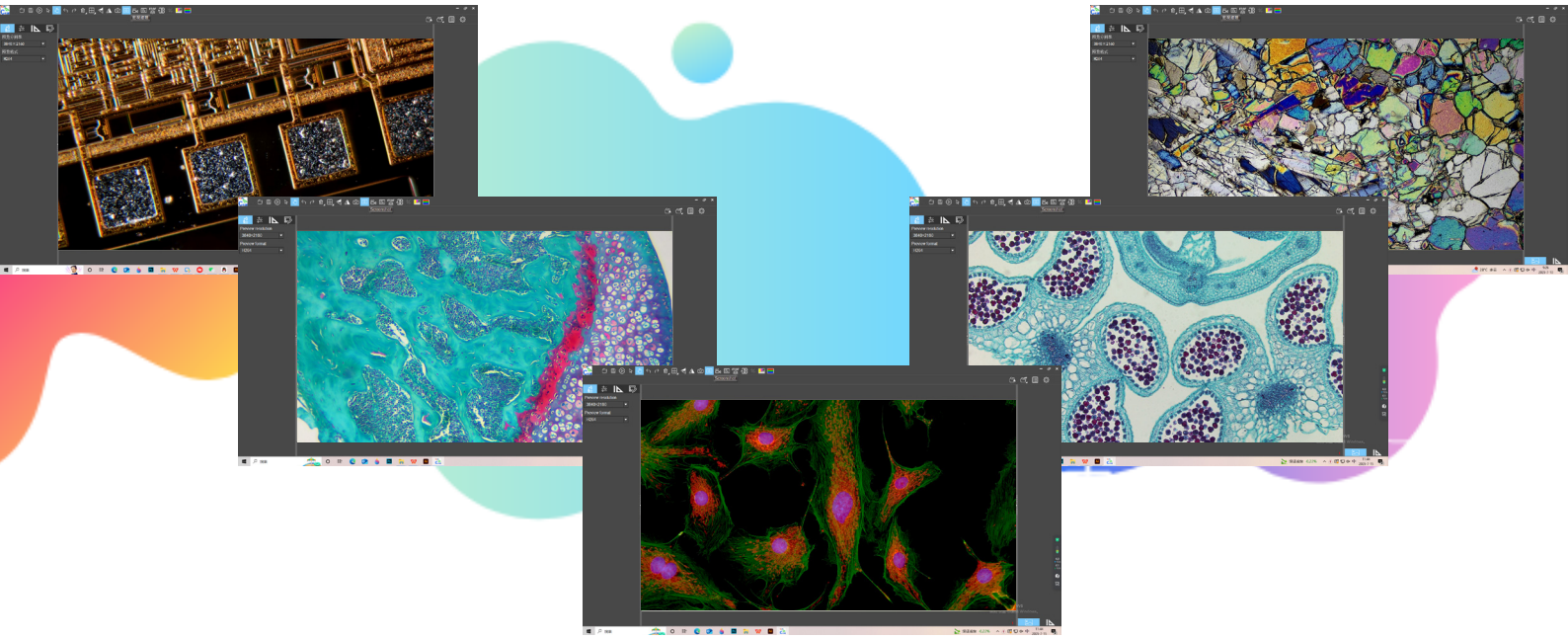
KoPa®



KoPa Capture Pro for Windows

Software Introduction

KoPa Capture Pro – Plug-and-Play Windows Software

KoPa Capture Pro is a ready-to-use Windows-compatible software that requires no additional drivers. It supports the full range of KoPa cameras from 8.3MP to 12.0MP, 20.0MP, and beyond, offering versatile connectivity options including USB, Wi-Fi, and Ethernet. Enjoy greater flexibility and convenience in image transfer with a seamless, multi-connection experience.

Recommended System Requirements

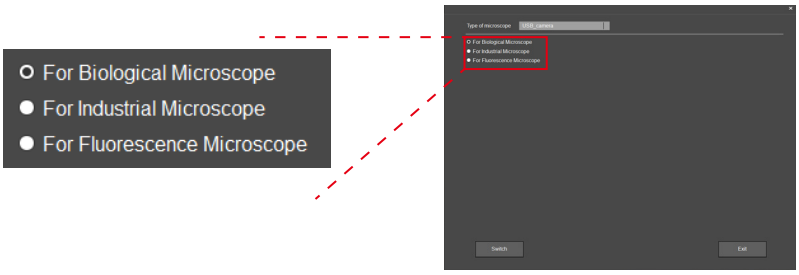
- Operating System: Microsoft Windows 10 (64-bit) or later
- CPU: Intel Core i7 (10th Gen) or higher
- Storage: 512GB SSD or larger
- RAM: 16GB or more
- Graphics: Integrated or dedicated GPU (Nvidia RTX 2060 or better recommended)
- Wired Network: 10/100/1000M Gigabit Ethernet
- Wireless Network: 5G Wi-Fi (IEEE 802.11ac supported)。

Windows PCs can connect to the camera via USB or 5G Wi-Fi for seamless high-definition image streaming.

Dedicated yet Versatile – Adapts seamlessly to diverse microscopy needs

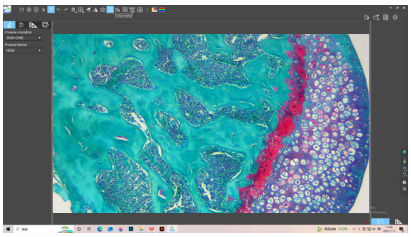
Multi-Mode Imaging Support:

- Biological Microscope Image Mode
- Industrial Microscope Image Mode
- Fluorescence Microscope Image Mode

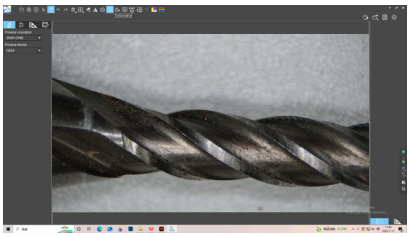


Auto-Matched Precision: Automatically selects the optimal imaging mode for your microscope, delivering sharp, accurate results.

Biological Microscope Image Mode



Industrial Microscope Image Mode



Fluorescence Microscope Image Mode

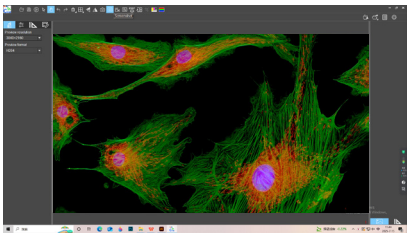
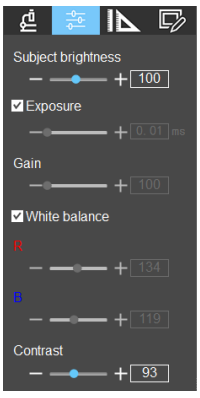
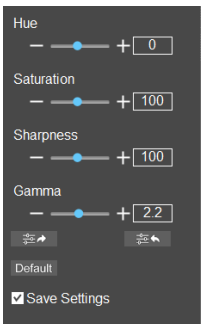


Image Property Adjustment

KoPa Capture Pro provides full control over image optimization with support for:
Brightness & Exposure,Gain & White Balance,R &B Parameters adjustment,Contrast, Chroma& Saturation,Sharpness & Gamma.



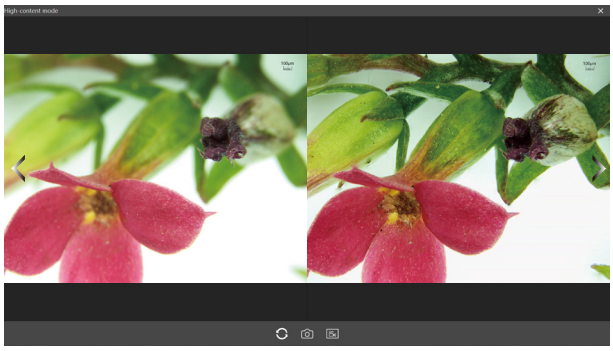


Quick & Smart Controls

One-Click Reset – Instantly restore all settings to default.
Individual Parameter Reset – Revert single settings without affecting others.
Custom Presets – Save your preferred configurations for quick access.
Import/Export Settings – Easily transfer image parameters across devices.

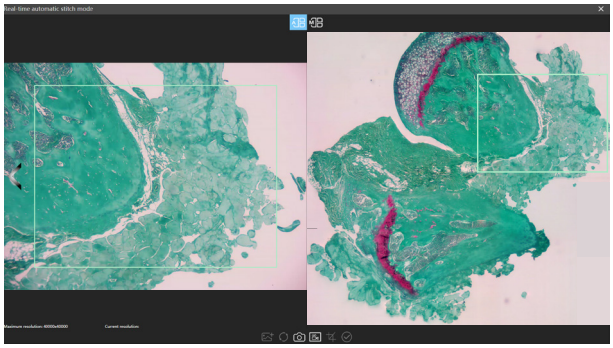
Multi-Focus Image Fusion

Overcoming the physical constraints of conventional microscopy, our solution:
Intelligently captures in-focus details across multiple focal planes with simple focus adjustment
Seamlessly merges images to produce single-frame, all-in-focus HD results
Features dual-output storage: preserves both original data and fused images in one acquisition



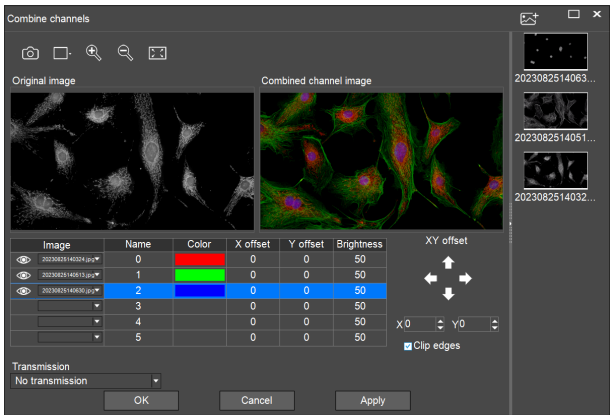
Auto-Stitching Functionality

Leveraging advanced stage displacement detection and real-time imaging algorithms, our solution:
• Automatically captures and seamlessly stitches consecutive images during XY-axis movement
• Generates high-resolution panoramas of complete specimens with precision
• Eliminates static image stitching - Enables effortless, efficient large-area observation



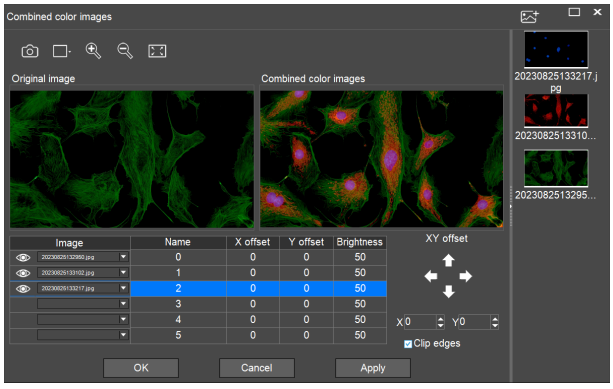
Fluorescence Channel Configuration

One-click channel selection,real-time multi-channel overlay.



Multi-Channel Fluorescence Image Fusion

Automatically combines multiple fluorescent channels into a single composite image,true-color representation of all markers.



Practical Measurement & Annotation Tools

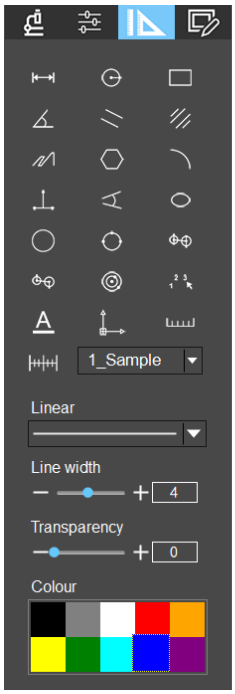
- **Comprehensive Measurement Suite:**
  Linear: Distance, angle, parallel spacing
  Circular: Radius, diameter, concentric circles
  Polygonal: 3-point perpendicular, 4-point angle
  Curvilinear: Arcs, elliptical measurements

- **Calibration Management:**
  Flexible Calibration: Add/edit/delete calibration standards
  Import/Export: Share calibration profiles

- **Scale Bars:** Customizable units (m/mm/cm) and lengths

- **Scale bar display:** can be superimposed onto the image and automatically saved when taking a picture.

- **Annotation tools:** pencil (free drawing), highlighter (highlight annotation), straight line, rectangle, ellipse, isosceles triangle, concentric circles, single-arrow straight line (supports angle adjustment).



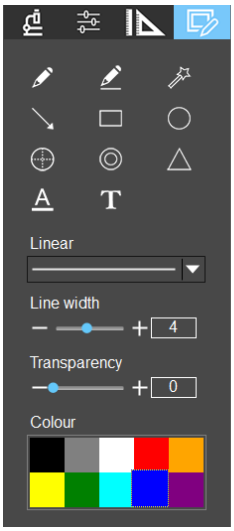
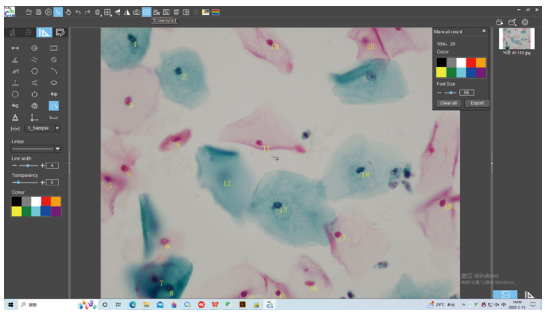
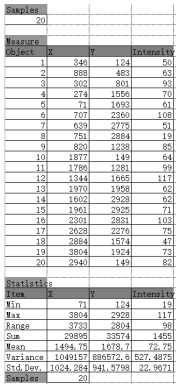


Image Processing and General Settings

Image Processing

- **File Management:** Open/Save;
- **Real-time Transform:** Horizontal/Vertical Flip + Mirror Mode;
- **Image Editing:** Select/Drag/Erase Tools;
- **Operation History:** Undo/Redo;
- **Multi-screen Comparison:** Supports 1/2/4-screen simultaneous viewing modes (Dynamic and Static Pictures);
- **Cell Counting:** Manually label nuclei to generate a quantity report;
- **Multimedia Capture:** Take pictures , screenshot, video recording, screen recording.

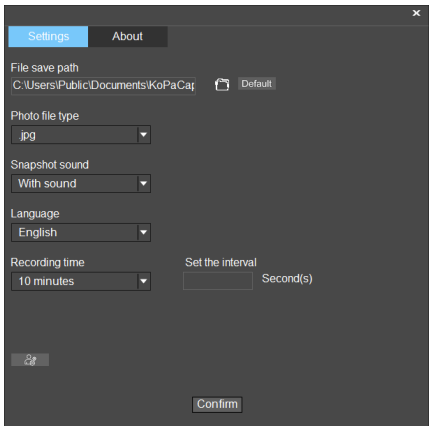




Samples			
20			
Measure			
Object	X	Y	Intensity
1	346	124	50
2	888	483	63
3	302	801	93
4	274	1556	70
5	71	1693	61
6	707	2360	108
7	639	2775	51
8	751	2884	19
9	820	1238	85
10	1877	149	64
11	1786	1281	99
12	1344	1665	117
13	1970	1958	62
14	1602	2928	62
15	1961	2925	71
16	2301	2831	103
17	2628	2276	75
18	2884	1574	47
19	3804	1924	73
20	2940	149	82
Statistics			
Item	X	Y	Intensity
Min	71	124	19
Max	3804	2928	117
Range	3733	2804	98
Sum	29895	33574	1455
Mean	1494.75	1678.7	72.75
Variance	1049157	886572.6	527.4875
Std. Dev.	1024.284	941.5798	22.9671
Samples	20		

General Settings

- **File Save Path:** optional file save path;
- **Multi-format Output:** .jpg / .bmp / .tiff / .png;
- **Language Switching:** Simplified Chinese, English, Traditional Chinese, Japanese , Русский， Portuguese, Spanish
- **Photo Mode:** audible/silent shutter ;
- **Recording Duration:** 10/30/60minutes (customizable);
- **Intelligent Snapshot:** setable interval time (1s~10min);



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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