

KoPa WiFi Lab AO

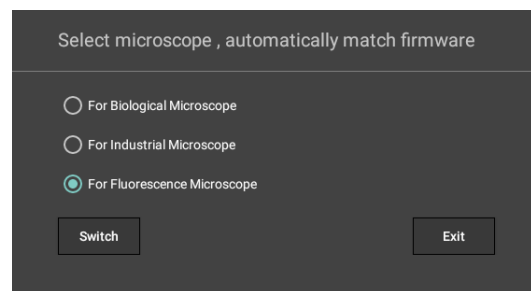
Embedded Software Introduction

KoPa WiFi LAB AO is an Android-based APP that comes pre-installed in KoPa smart display cameras or smart cameras before leaving the factory, eliminating the need for users to install it manually. Upon hardware startup, it automatically enters the main operation interface. The app can be updated and upgraded via a USB drive.

Dedicated yet Versatile – Adapts seamlessly to diverse microscopy needs

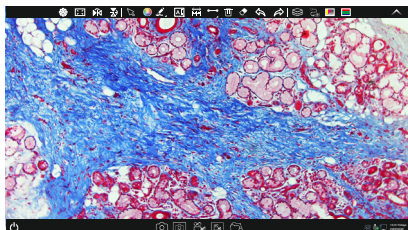
Multi-Mode Imaging Support:

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

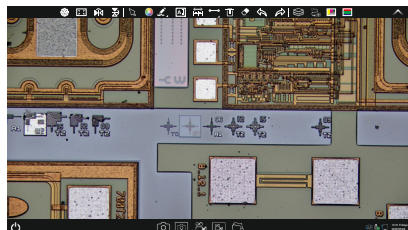


Auto-Matched Precision: Automatically selects the optimal imaging mode for your microscope, delivering sharp, accurate results.

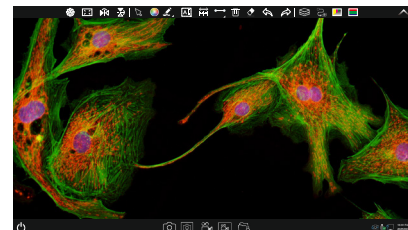
Biological Microscope Image Mode



Industrial Microscope Image Mode



Fluorescence Microscope Image Mode



Multi-Functionality Meets Ease of Use

- Image Adjustment
- Preferences
- Measurement & Annotation Tools
- Multi-Focus Image Fusion
- Combined Channels
- Combined Color Channels
- System Desktop
- Folder Management

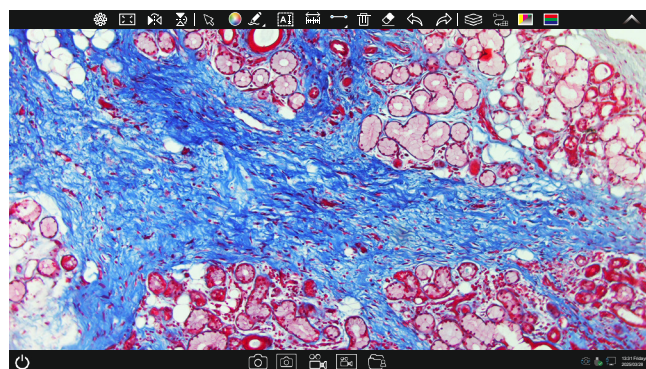


Image Adjustment

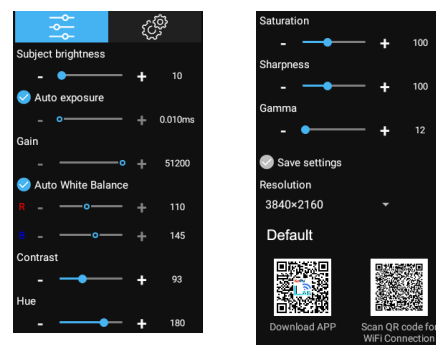
Features: Image Property Memory – Automatically restores previous image settings (before software shutdown) upon reopening.

Comprehensive Image Adjustment – Supports modification of: Target luminance, exposure, gain, white balance, RB parameters, contrast, hue, saturation, Sharpness, gamma, and other settings.

One-Click Reset – Quickly restore all parameters to default values.

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



Preference Settings

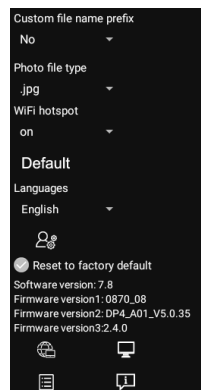
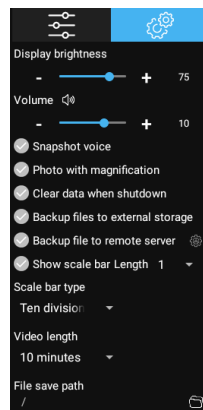
Users can customize the following settings:

System Preferences: Language selection, display brightness, audio volume.

Recording Settings: Video duration, measurement scale calibration.

Data Operations: USB backup functionality, factory reset.

System Navigation: Direct internet access or desktop interface.



Practical Measurement & Annotation Tools

Comprehensive measurement functions including:

Linear/Circular/Rectangular measurements;

Angle/Parallel distance/Arc calculations;

Specialized tools: 3-point verticality, 4-point angularity;

Oval/Concentric circle measurement capabilities;

Calibration

Auto-Save Calibration Data: All calibration settings are automatically preserved upon shutdown.

Measurement Assist Tools

Scale bar reference

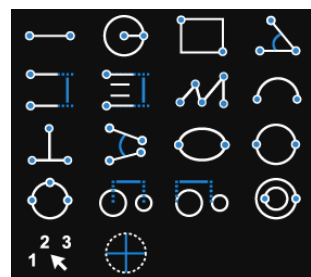
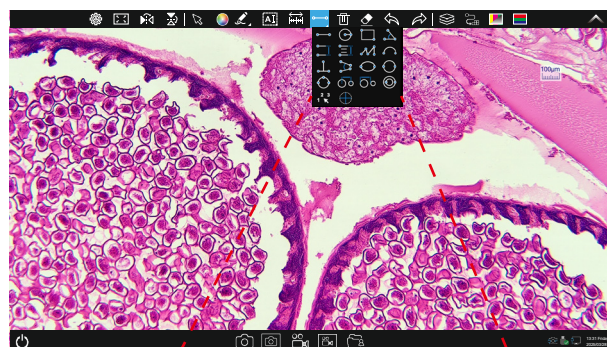
Crosshair overlay

Grid line display

Manual Cell Counting

Precise nuclei quantification with visual verification;

One-click export of standardized analysis reports.

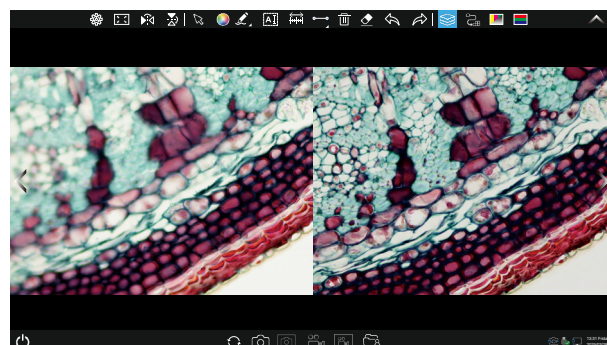


Real-Time Image Annotation & Editing

Dynamic Markup Tools: Draw/type directly on live images

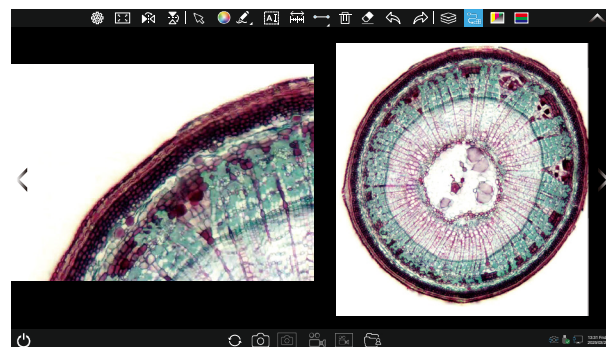
Depth of Field Fusion

This feature overcomes the limited depth of field inherent in high-magnification objectives. By intelligently combining multiple focal planes, it achieves an extended depth of field during focus adjustment, producing significantly clearer images compared to conventional single-frame capture.



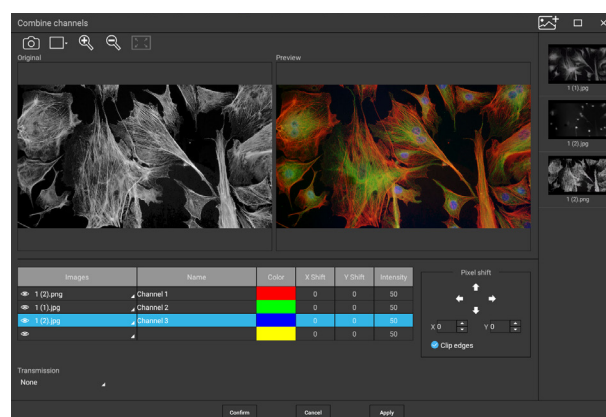
Auto-Stitching Functionality

Through precise stage displacement, the system automatically captures and stitches consecutive images along XY axes to rapidly generate high-resolution panoramic views of complete specimens.



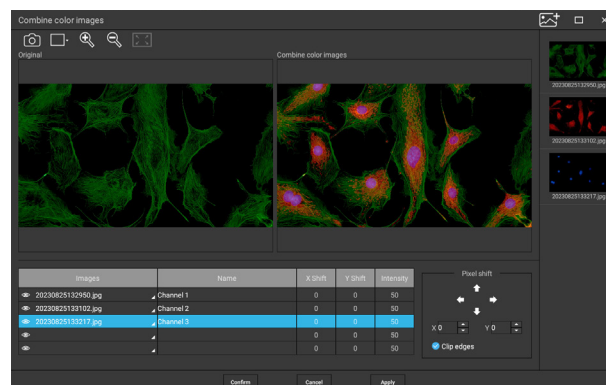
Fluorescence Channel Configuration

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



Multi-Channel Fluorescence Image Fusion

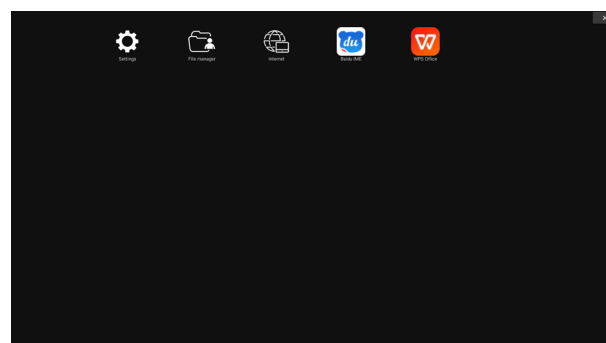
Automatically combines multiple fluorescent channels into a single composite image, true-color representation of all markers.



System desktop

System Desktop pre-installed Genuine Microsoft Office/WPS (activation required).

Open Platform Features with Unlimited third-party application installation.



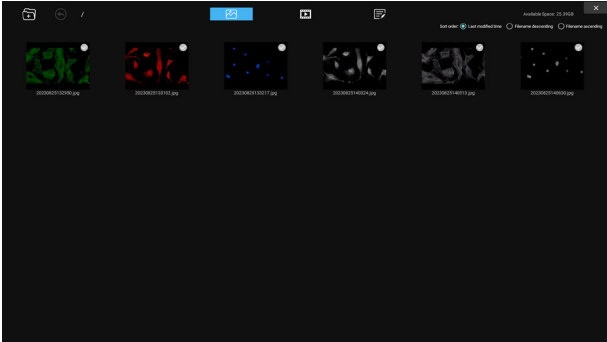
File Management System

Image & Video Library

File Browser: Intuitive thumbnail list views;

Batch Operations: Multi-select rename/copy/delete;

Export Tools: One-click transfer to USB drive
(FAT32/NTFS).



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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