J-Scope 5G Wi-Fi Eyepiece (Digital Camera)-Overview

JC LAB INTERNATIONAL

The BIMC-A03A-W2 is known around the globe for their ease-of-use and adaptability to a number of applications. The JC Cam's unique "All In One Box" design, assures each user that this camera can fit almost any microscope whether it's for Educational, Industrial or Clinical use. The JC CAM allows you to convert your digital images into documentation files for professional printing. It is equipped with a USB 3.0 and Wi-Fi for data transfer, ensuring a good response time.
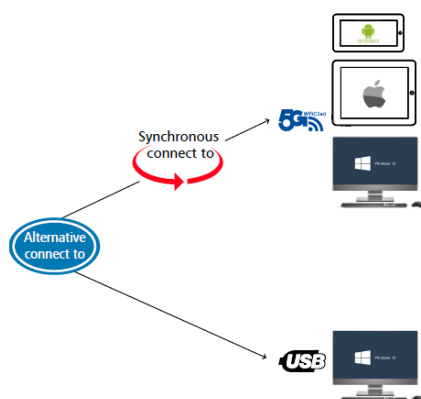
Live stream with multiple devices

Solution③ + WiFi/USB camera (C-mount and with battery) =

Synchronous connect to → 5G Wi-Fi

Alternative connect to → USB

Image Sensor:
OnSemi AR0521

Exposure Mode:
Roller shutter exposure

Maximum Resolution:
2592 x 1944 (5038848 pixels)

Sensor Optical Format:
1/2.5" [5.90mm x 4.5mm (H x V), Diagonal 7.0mm]

Pixel Size:
2.2μm x 2.2μm

Dynamic Range:
74.3dB

SNRmax:
40dB

Exposure:
3.9ms - 320ms, Automatic and Manual

White Balance:
Real-time auto, single auto, manual adjustment

Preview resolution (USB & 5G Wi-Fi):
30FPS@2592x1944, 1920x1080, 1024x768, 640x480

Spectral Characteristics:
380 - 650nm

Record Format:
Snapshot
Format: JPG, BMP, PNG, TIFF, PDF
Resolution: 2592 x 1944, 1920 x 1080, 1024 x 768, 640 x 480
Record
Format: MJPG format AVI file
Resolution: 30fps@ 1920 x 1080, 1024 x 768, 640 x 480

Supporting protocol:
5G Wi-Fi IEEE 802.11ac

Working frequency range:
5.180 - 5.825GHz

Support System:
Microsoft® Windows XP/7/8/8.1/10, IOS, Android

Computer Configuration:
CPU: equal or more than the second generation Intel core 2.8GHz, Memory: 2GB or more, USB port: USB 2.0 / 3.0 or more, Displayer: suggest 17" or larger
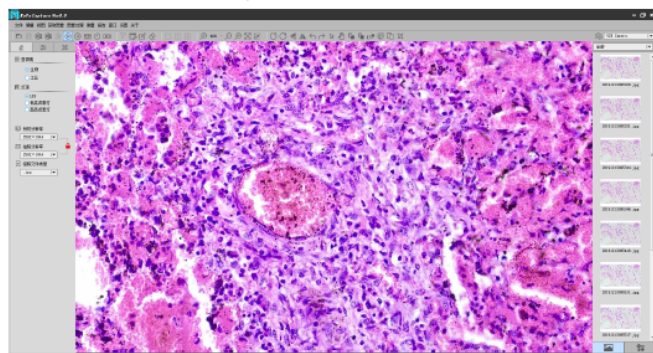
*All of our microscopes are covered by a 5 year warranty on mechanical components and 2 year warranty on electrical components

*Standard packing: Main Body + 0.5x Eyepiece + 30mm & 23.2mm Adapter + Software CD + Type-C USB

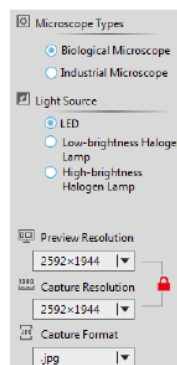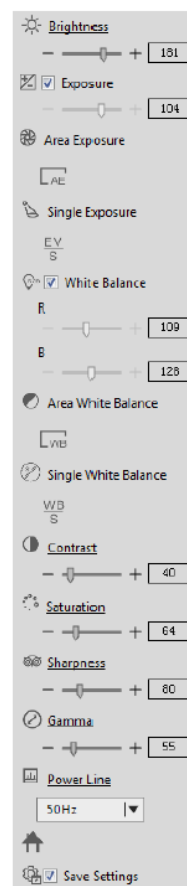# J-Scope 5G Wi-Fi Eyepiece (Digital Camera)-Overview

PC software

JC CAM

Software operating environment requirements

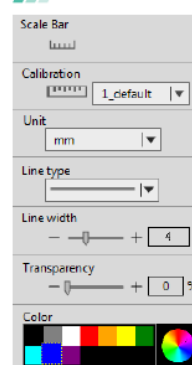| System	CPU	RAM	ROM	Graphics card	Network card
Microsoft® Windows® 7 (32 & 64 bit) Windows® 10(64 bit)	i7 8th-generation or later version	200GB or more	8GB or more	Discrete graphics (NVIDIA GeForce)	Wireless network card (Supports 5G WiFi IEEE 802.11ac)

Working mode setting

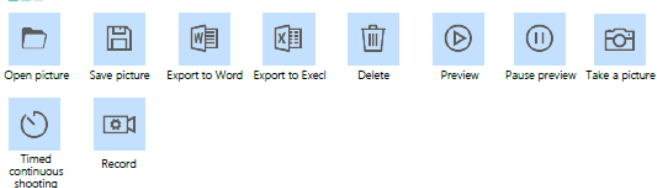**Microscope Types**
- ● Biological Microscope
- ○ Industrial Microscope

Light Source
- ● LED
- ○ Low-brightness Halogen Lamp
- ○ High-brightness Halogen Lamp

Preview Resolution
2592×1944 ▼

Capture Resolution
2592×1944 ▼

Capture Format
.jpg ▼

Image attribute adjustment

- Brightness — □ + 181
- ☑ Exposure — □ + 104
- Area Exposure
- Single Exposure — EV S
- ☑ White Balance
  - R — □ + 109
  - B — □ + 128
- Area White Balance — WB
- Single White Balance — WB S
- Contrast — □ + 40
- Saturation — □ + 64
- Sharpness — □ + 80
- Gamma — □ + 55
- Power Line — 50Hz ▼
- ☑ Save Settings

Calibration tools

Scale Bar

Calibration — 1_default ▼

Unit — mm ▼

Line type — ▼

Line width — □ + 4

Transparency — □ + 0 %

Color

Measurement module

18 measurement tools

Straight line | Parallel lines | Double parallel | Polyline | Rectangle | Polygon | Arc | Three-point vertical line | Four-point angle

Three-point angle | Oval | Ring | Center radius | Three-point circle | Circular measurement | Concentric radius circle | Three-point draw circle
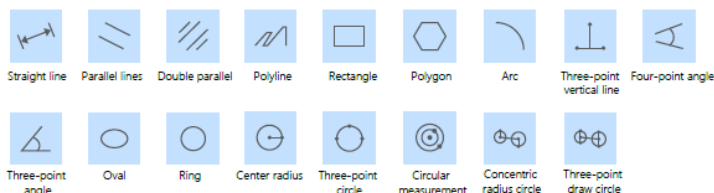
Rich auxiliary tools

10 common tools

Open picture | Save picture | Export to Word | Export to Execl | Delete | Preview | Pause preview | Take a picture

Timed continuous shooting | Record

14 editing tools

Rotate90° counterclockwise | Rotate 90° clockwise | Flip | Mirror | Undo | Redo | Select

Drag | Layer up | Layer down | Delete object | Copy | Paste | Cut

5 Window tools

Zoom in | Zoom out | 1:1 | Fit to screen | Full screen

3 Multiple screen tools

One screen | Two screens | Four screens

Drawing tools

Pencil | Pen | Straight line | Single arrow | Double arrow | Polyline

Single arrow polyline | Double arrow polyline | Curve single arrow | Curve | Rhombus | Rectangle

Rounded rectangle | Parallelogram | Octagon | Isosceles triangle | Right triangle | Ellipse

Cylindrical | Cube

Erase tools

Eraser | Rectangle erase | Erase any area | Erase object | Erase all objects

Special effects tools

Color reverse | Monochrome | Gray | Sharpen
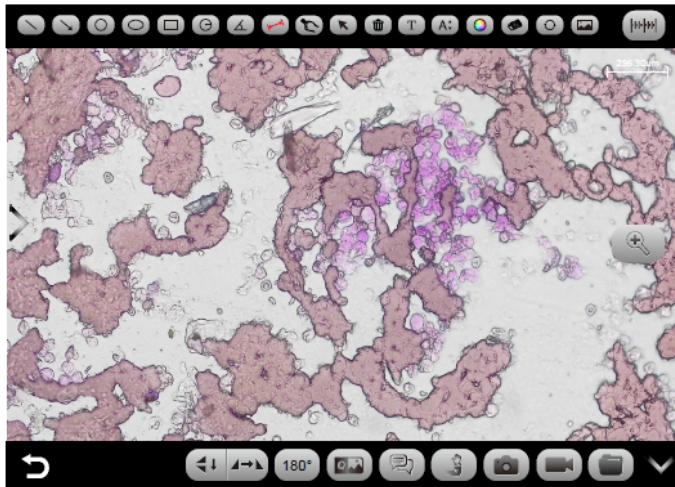
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APP software——for smart mobile devices

Own design App for IOS & Android System

Software operating environment requirements

System	system version	CPU	RAM	ROM	Protocol
Android	5.0 or later version	Dual-core 1.7GHz or later version	at least 3GB	at least 32GB	5G WiFi IEEE 802.11(ac)
iOS	11.0 or later version	Dual-core 1.8GHz or later version	at least 2GB	at least 32GB	

Capture and record tools

Take photo   Record

Scan to connect

Scan "QR code" with the APP

Annotation and Measuring tools

17 tools

Select   Move   Add text   Add a picture   Hand-draw   Eraser   Rotate   Delete   Line

Single-arrow   Round   Oval   Rectangular   Rounded radius   Protractor   Linear measurement   Calibration

Image attribute adjustment

Exposure ☑	Saturation:128
White Balance ☑	Sharpness:128
R	
B	Gamma:128
Brighteess:128	Improve halation:128
	Black and white ☐
Contrast:128	Enhance image quality ☐
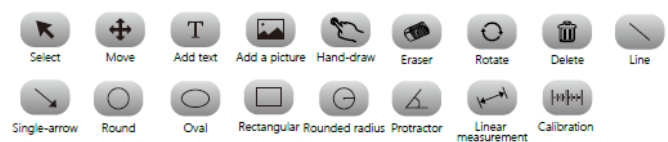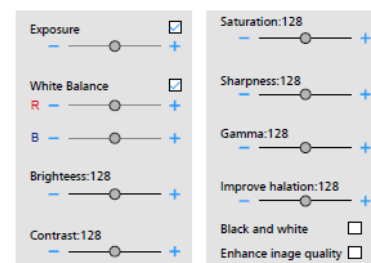
System Image samples

HE slices
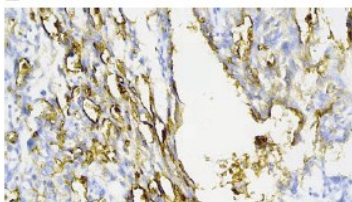
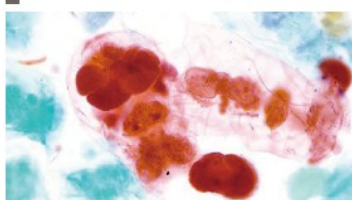Ovarian cancer membranes 40X
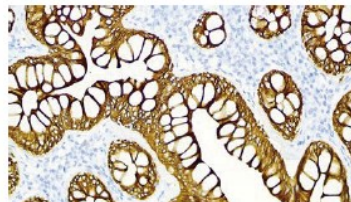
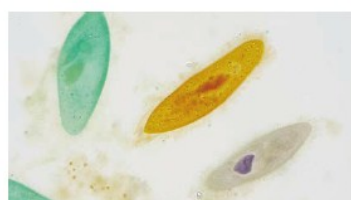Colon pulp 40X
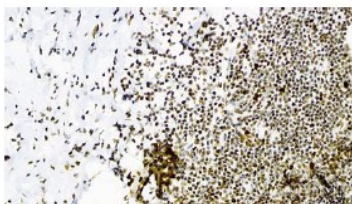
Appendix nucleus 40X
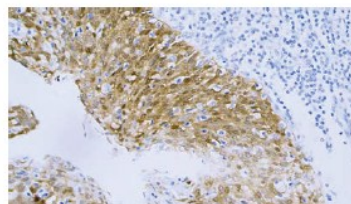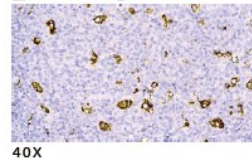

Cervical cancer nuclear slurry 40X
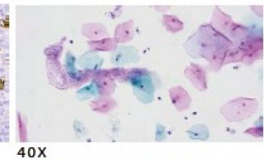
Insect slices
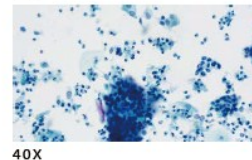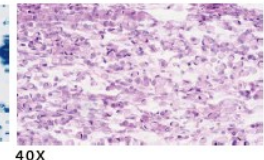

Wheel-worm 40X

Paramecium stons 40X
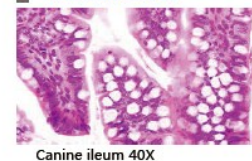
Pathological slices
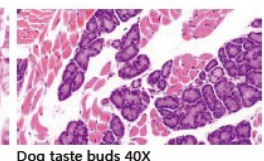

40X

40X

40X

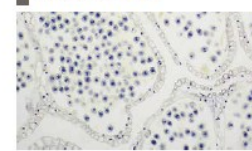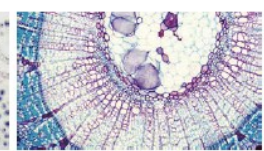40X

Animals slices

Canine ileum 40X

Dog taste buds 40X

Plant slices

Pine young male cone longitudinal 10X

Lime tree stem cross 10X