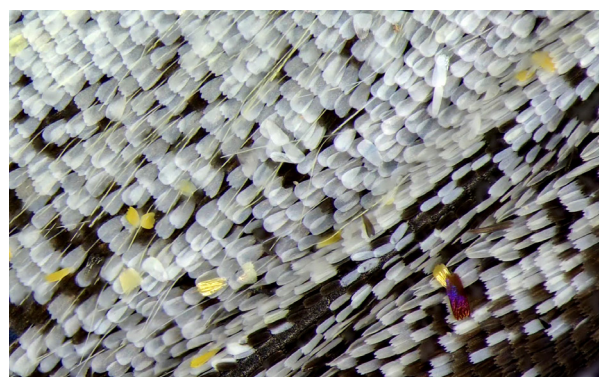
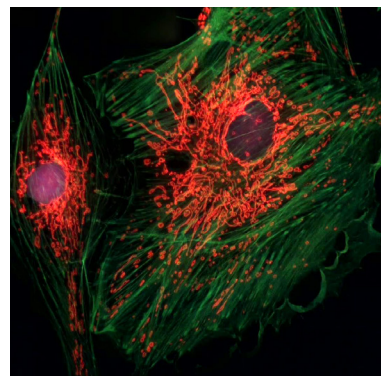
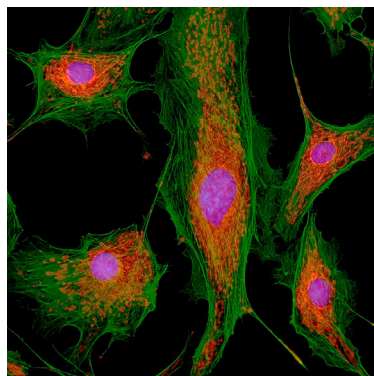
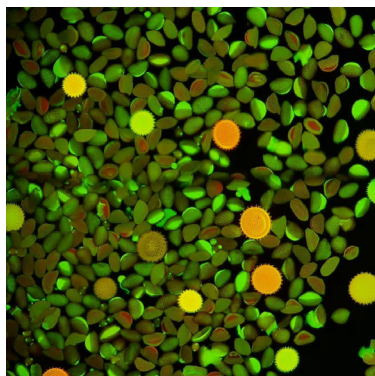
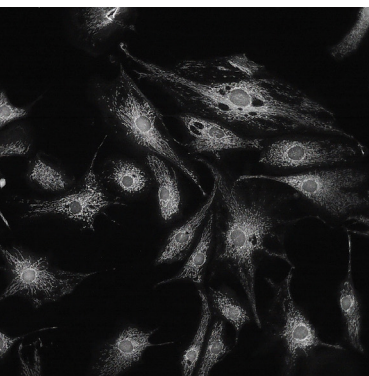
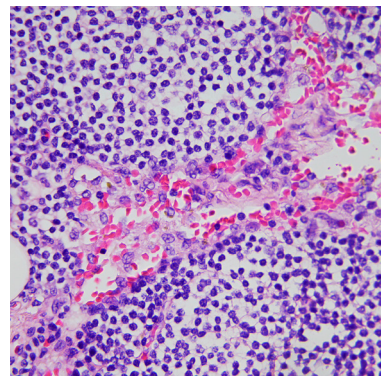
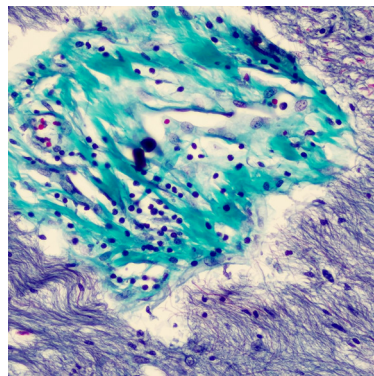
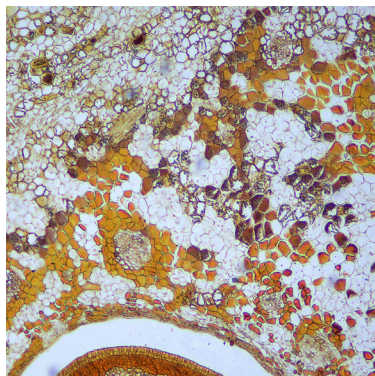
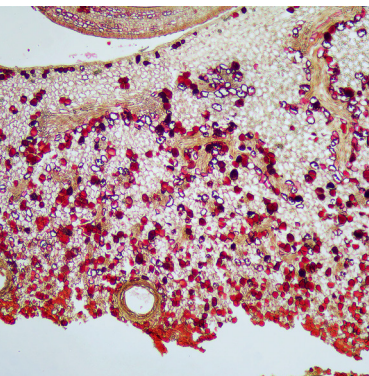


**INNOVATED FOR TOP BRAND MICROSCOPES**  
*Create a Stunning Microscope Imaging System for You*





# For Trinocular Upright Microscopes



Applicable Models:  
BX43,BX46,BX53,BX63, etc.

**Solution ④**

5G WiFi Multiviewing Workstation  
With 0.43X tube lens



**Solution ⑤**

Dual Sensor Camera  
With 0.63X tube lens



**Function Comparison**

● Standard    ○ Optional    – N/A

	Solution④	Solution⑤
Built-in Android OS	—	—
Pre-installed Office suits	—	—
15.6"high color gamut monitor	—	—
Image output methods		
5G WiFi	●	●
USB	—	●
HDMI or DP	—	—
Network	●	●

## Solution⑤ Dual Sensor Camera



Bright field: SONY IMX147 20.0MP;  
Fluorescence: SONY IMX482 2.0MP, 5.8μm×5.8μm.

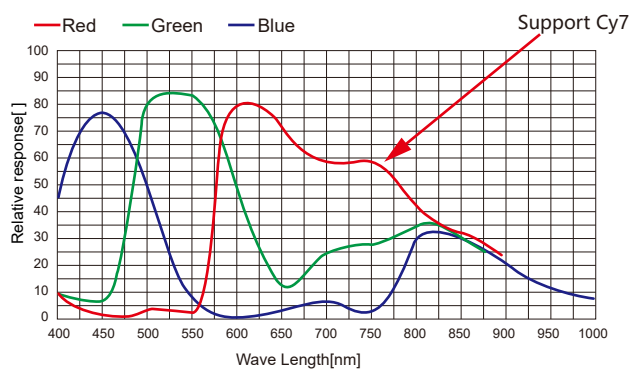


Bright field: SONY IMX147 20.0MP;  
Fluorescence: SONY IMX174 2.3MP, 5.86μm×5.86μm.

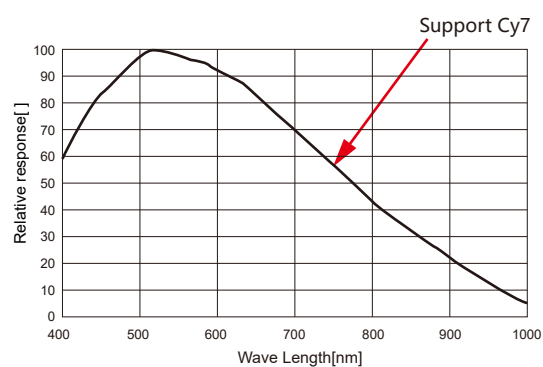
## Features & Benefits

### Excellent spectral response curve

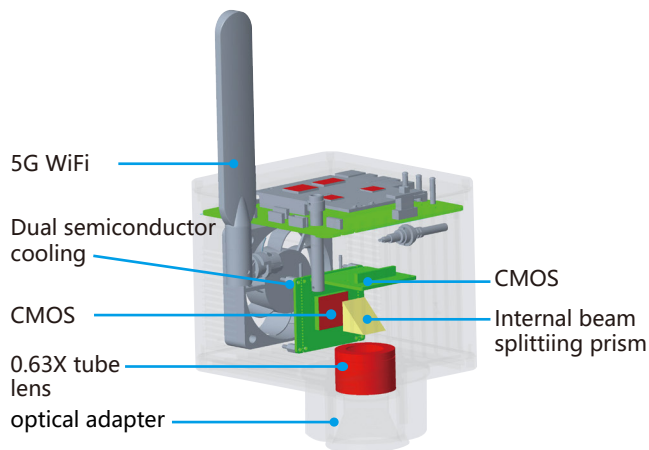
Color sensor IMX482



Monochrome sensor IMX174



Cy3	555nm-570nm
Cy3.5	591nm-604nm
Cy5	620nm-646nm
Cy5.5	673nm-707nm
Cy7	750nm-773nm
Cy7.5	788nm-808nm



Nondestructive coupling of the original optical path of the microscope

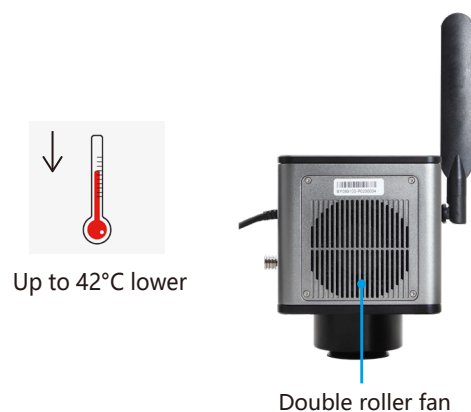
High power dual semiconductor cooling, smart and constant working at low temperature.

At an operating temperature of 0~40°C, CMOS operating temperature constant in the 0±2°C range;

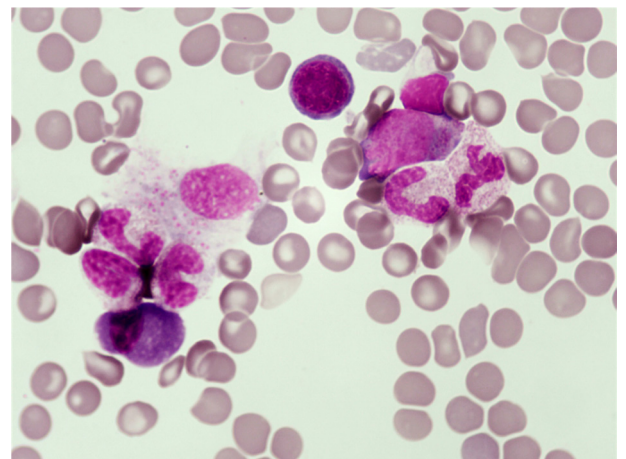
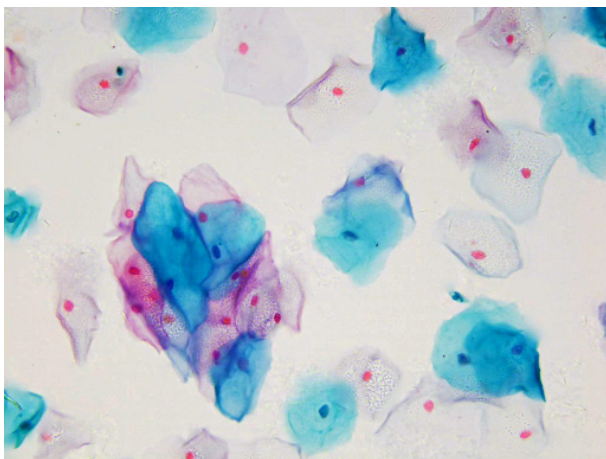
Superior circuit design + "freezing technology" ensures extremely low readout noise and no dark current for long exposure times;

Heat dissipation duct is completely isolated from the optical path: no dust, long life and low noise.

(Noise ≤ 40dB (A), fan noise audible to the human ear when observing the microscope with the naked eye).



## • Bright field



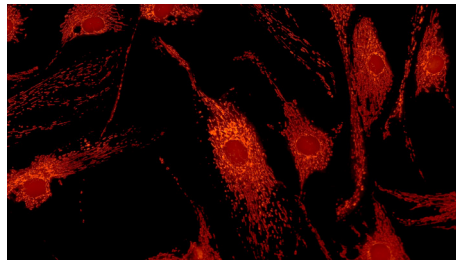
(Camera : 20.0MP, 1/2.3", 1.2um X 1.2um, objective:40X,100X)

- Fluorescence



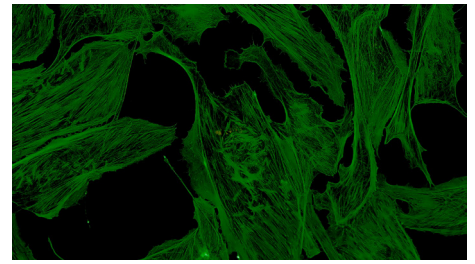
Actin filaments

Red channel



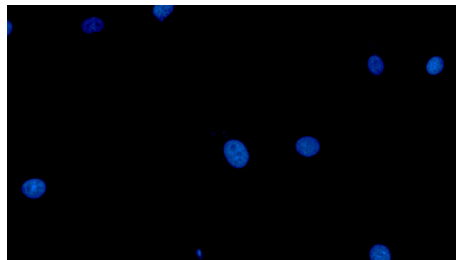
Exposure time: 900ms  
Gain: 6 (ISO 1200 equivalent)

Green channel



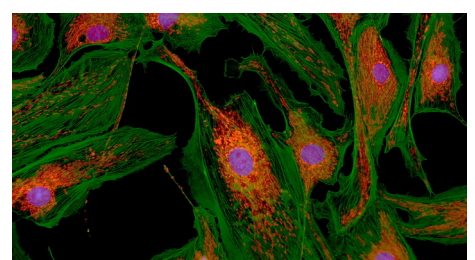
Exposure time: 1500ms  
Gain: 7 (ISO 1600 equivalent)

Blue channel



Exposure time: 800ms  
Gain: 5 (ISO 800 equivalent)

Combined channel images overlay



The above four comparison photos are all taken by the same tester under the same research level microscope and the same slide position.

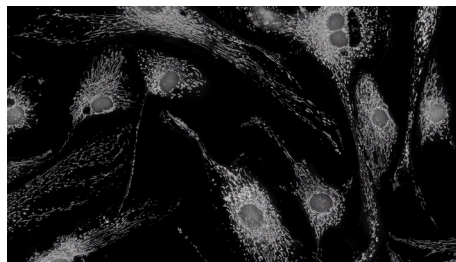
(Camera : 2.0MP, 1/1.2", 5.8umx 5.8um, objective:40X)

- Fluorescent monochrome



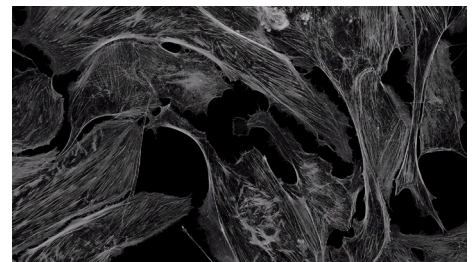
Actin filaments

Red channel



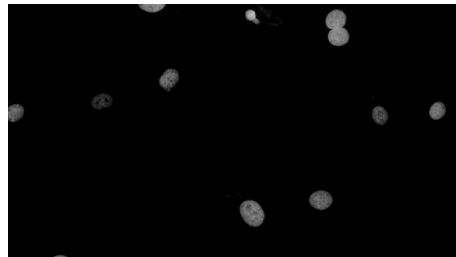
Exposure time: 1600ms  
Gain: 3 (ISO 400 equivalent)

Green channel



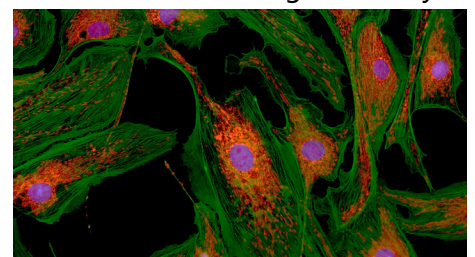
Exposure time: 1300ms  
Gain: 4 (ISO 600 equivalent)

Blue channel



Exposure time: 773ms  
Gain: 4 (ISO 600 equivalent)

Combined color images overlay



The above four comparison photos are all taken by the same tester under the same research level microscope and the same slide position.

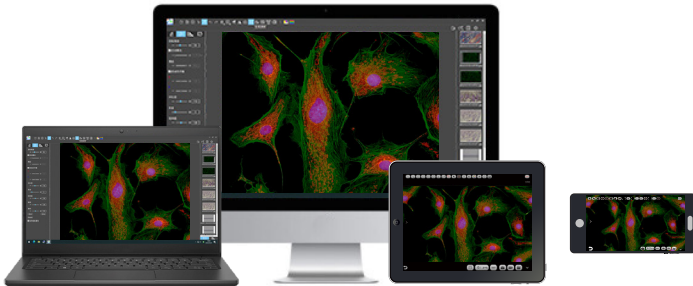
(Camera : 2.3MP, 1/1.2", 5.86umx 5.86um, objective:40X)





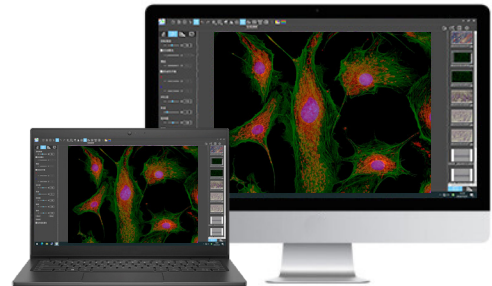
### 5G WiFi output

Compatible with various devices and operating systems, including Windows, iOS, and Android. Mobile devices can access the system by scanning a QR code.



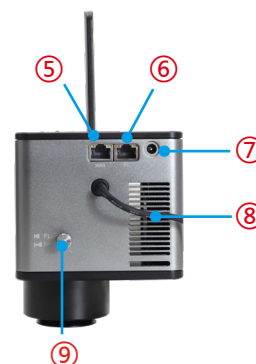
### USB output

Supports connection to a computer via USB 2.0. You can utilize the KoPa Capture Pro software or any standard UVC 2.0 protocol software to access the camera's real-time images without the need for driver installation.



### Network output

Connect the camera to the router or switch through the network cable, up to 13 units computers, mobile phones and tablets in the LAN can access and control the images as long as they have installed the software and APP.



①	5G WiFi antenna	5G WiFi signal transmission to connect the camera to capture images or control the camera
②	Easy focus with allen key	Simple and precise focus adjustment for synchronization between eyepiece and monitor.
③	Indicator light	Indicates cooling system operation, WiFi operation status, and power status.
④	USB/OFF/WiFi working mode switching	Two working modes switching
⑤	WAN network output interface	Supports to connect to Internet by a network cable.
⑥	PC network output interface	It is connected to a computer through a network cable, and the computer side can capture images through software.
⑦	Power input	DC 12V 5A
⑧	USB output	Switch to USB working mode.
⑨	FL or BF imaging module switch lever	Push in: FL imaging module is effective Pull-out: BF imaging module is effective

## Specifications

### Color+Color

Applicable to	Evident	
Model	YF22	
Category	T-A-02	
Physical resolution	20.0MP(Color)	2.0MP(Color)
Image sensor	SONY IMX147 CMOS	SONY IMX482 CMOS
Exposure mode	Rolling Shutter	Rolling Shutter
Maximum resolution	5184×3888 (20,155,392 Pixels)	1920×1080 (2,073,600 Pixels)
ISO sensitivity	Equivalent to 100-12800	Equivalent to 100-12800
Sensor size	1/2.3"	1/1.2"
Pixel size	1.2μm×1.2μm	5.8μm×5.8μm
Spectral response	380-650nm	400-800nm
Exposure capability	Real-time auto and manual adjustment	Real-time auto and manual adjustment
Exposure time	10μs-333ms	10μs-9500ms
Read out the noise	N/A	1.5-12.9e
QE peak	N/A	85%
Full well charge	N/A	51.5ke
White balance	Real-time auto and manual RB adjustment	Real-time auto and manual RB adjustment
Preview resolution	5184×3888@10fps, 3840×2160@15fps	1920×1080@60fps
Power supply	DC 12V 5A	DC 12V 5A
Wireless protocol	5G WiFi IEEE802.11ac	5G WiFi IEEE802.11ac
A/D conversion bit depth	12bit	10bit
Software and App	Windows Software:KoPa Capture Pro, App:KoPa WiFi Lab	

## Color+Monochrome

Applicable to	Evident	
Dovetail models	YF22	
Category	T-A-2.3	
Physical resolution	20.0MP(Color)	2.3MP(Monochrome)
Image sensor	SONY IMX147 CMOS	SONY IMX174 CMOS
Exposure mode	Rolling Shutter	Global Shutter
Maximum resolution	5184×3888 (20,155,392 Pixels)	1920×1200 (2,304,000Pixels)
ISO sensitivity	Equivalent to 100-12800	Equivalent to 100-12800
Sensor size	1/2.3"	1/1.2"
Pixel size	1.2μm×1.2μm	5.86μm×5.86μm
Spectral response	380-650nm	400-800nm
Exposure capability	Real-time auto and manual adjustment	Real-time auto and manual adjustment
Exposure time	10μs-333ms	10μs-333ms(60fps),10μs-7000ms(30fps)
Read out the noise	N/A	3.5e-6e
QE peak	N/A	100%
Full well charge	N/A	32ke
White balance	Real-time auto and manual RB adjustment	N/A
Preview resolution	5184×3888@10fps, 3840×2160@15fps	1920×1200@60fps,1920×1080@30fps(default)
Power supply	DC 12V 5A	DC 12V 5A
Wireless protocol	5G WiFi IEEE802.11ac	5G WiFi IEEE802.11ac
A/D conversion bit depth	12bit	12bit
Software and App	Windows Software: KoPa Capture Pro; App for mobiles: KoPa WiFi Lab	

## Accessories

Power adapter and power cord  
(Optional Chinese, American, European,  
Australian, Korean, British standard etc.)

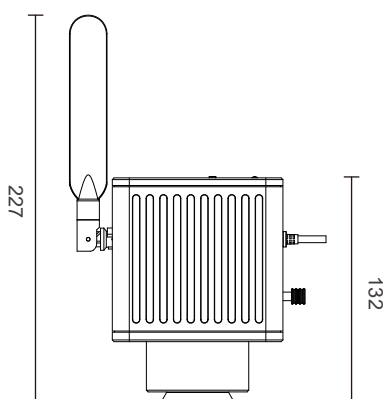
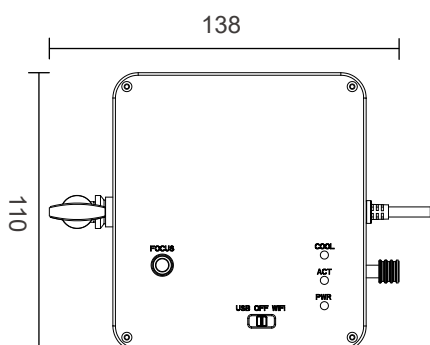


Gigabit Ethernet  
cable



## Dimensions(Unit:mm)

Net weight ≈1.6kg





# Certifications

1. Comply with FCC certification of The US Federal Communication Commission.
2. Comply with European (standard) safety CE certification.
3. Comply with the MIC certification issued by the Ministry of Internal Affairs and Communications of Japan (Electric Wave Method and Electro-Optical Communication Business Law).
4. Comply with JATE certification of Japanese telecommunications law directive.
5. Comply with the “Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment” (RoHS) Directives in accordance with EU legislation.

Evaluation object	Certification	Certificate File Name & Report	Certificate number & corresponding report number
WF01A(5G WiFi 11ac)module Certification	US FCC Report	SZEM180100024801-5G wifi RPT-WF01A FCC Report	SZEM180100024801
		SZEM180100024802-RT-WF01A FCC Report	SZEM180100024802
		Appendix A-Photographs of EUT Constructional Details for SZEM1801000248CR-FCC	SZEM1801000248CR
	US FCC ID Certification	2AFO3WF01A_NII-WF01A FCC ID	2AFO3WF01A
	EU CE report	SZEM180100024901 EN301489 RPT-WF01A CE Report	SZEM180100024901
		SZEM180100024902 WIFI5G RPT-WF01A CE Report	SZEM180100024902
	Japanese MIC Certification	CSRT180084-WF01A Japanese MIC Certification	CSRT180084
	Japanese JATE Certification	CSTT180018-WF01A Japanese JATE Certification	CSTT180018

## Patented

Patent category	Patent name	Patent number
Design patent	Electronic eyepiece	ZL 2015 3 0193227.8
	Wireless electronic eyepiece	ZL 2015 3 0193223.X
	Electronic eyepiece with spectroscopic system	ZL 2019 3 0331144.9
	Microscope (with splitting prism camera)	ZL 2019 3 0717439.X
	Microscope with camera	ZL 2019 3 0717442.1
Utility model patents	WiFi microscope eyepiece	ZL 2015 2 0296469.4
	Electronic eyepiece	ZL 2015 2 0426409.X
	Wireless electronic eyepiece	ZL 2015 2 0426313.3
	Microscope with displayer	ZL 2019 2 0928962.1
	Electronic eyepiece with splitting prism system	ZL 2019 2 1022863.3

## Software copyright

Category	Name of software	Platform	License number
Computer software copyright registration certificate	KoPa Capture Pro	Windows	2021SR1287730
	KoPa WiFi Lab AO	Android	2021SR1304520
	KoPa WiFi Lab	Android	2019SR0117768
		iOS	2019SR0028558
	KoPa View	Linux	2024SR1617066

**KoPa®**

GuangZhou Ostec Electronic Technology Co.,Limited

Manufacturer: No.8 West Lane, Jiangcheng Road, Bangjiang East Village,Dalong street, Panyu District, Guangzhou, China.



High-Tech Enterprise certificate number:  
GR202344009665



ISO9001 Verification No:00223Q26818R3S

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