INNOVATED FOR TOP BRAND MICROSCOPES
Create a Stunning Microscope Imaging System for You
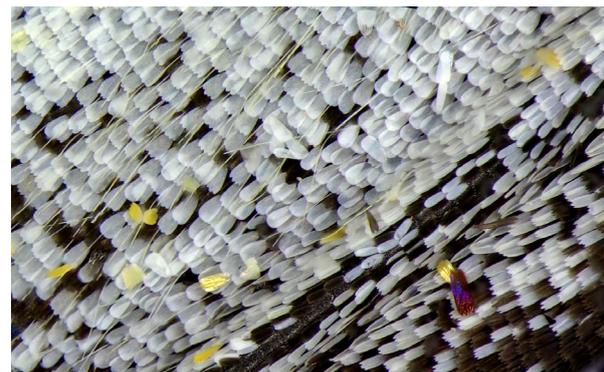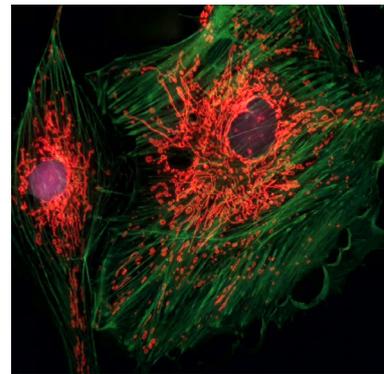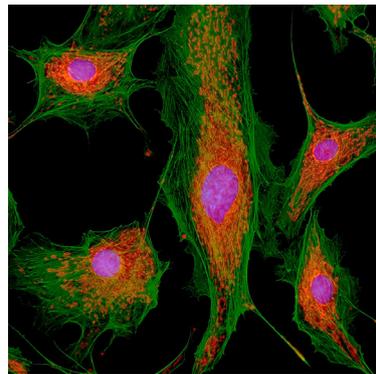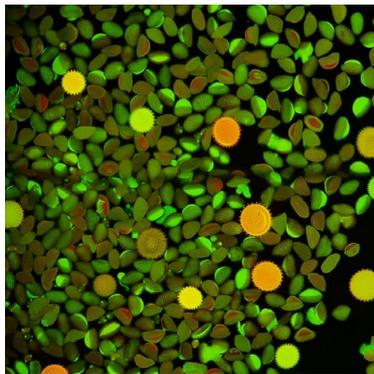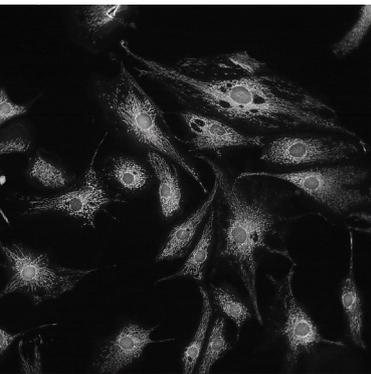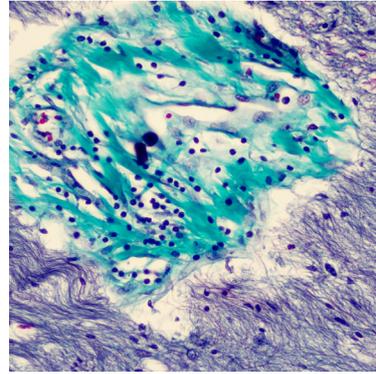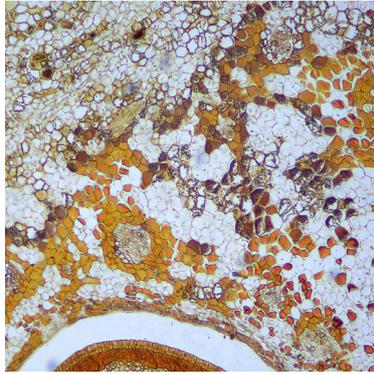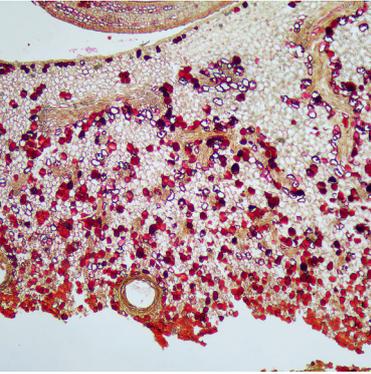
For Binocular Upright Microscopes

Applicable Models:
CX23,etc.

Solution ①
Smart Embedded Display Camera
With 0.43X tube lens
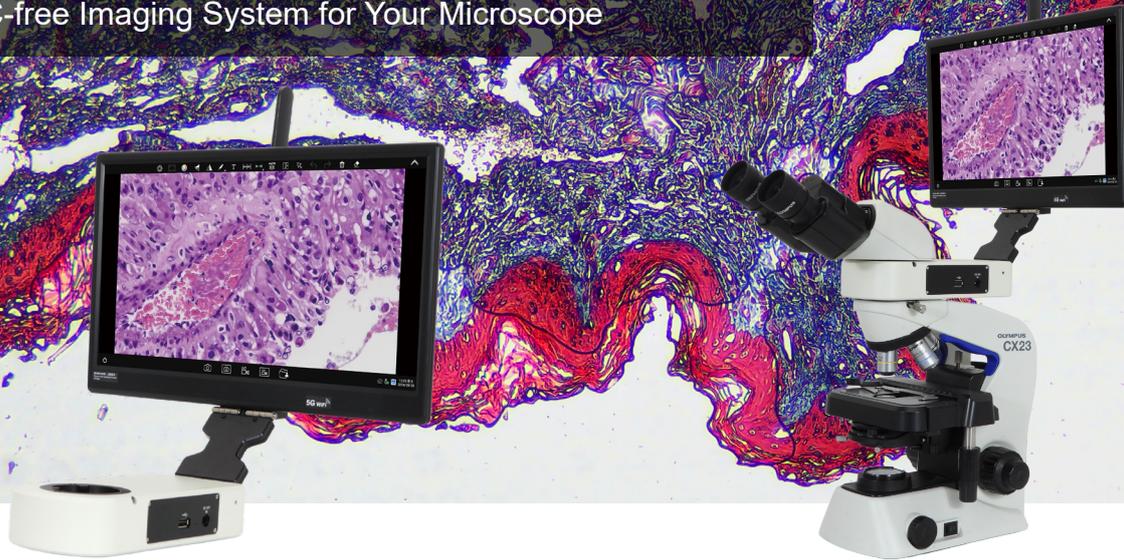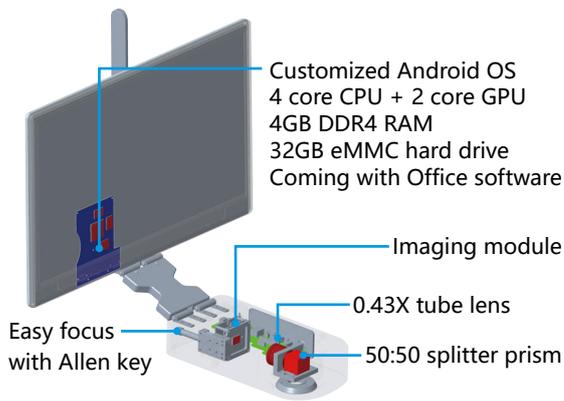
Solution ②
Smart Embedded Camera
With 0.43X tube lens

Solution ③
WiFi Embedded Camera
With 0.43X tube lens

Function Comparison

● Standard   ○ Optional   = N/A

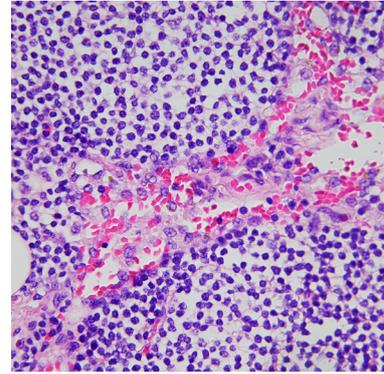|	Solution①	Solution②	Solution③
Built-in Android OS	●	●	−
Pre-installed Office suits	●	●	−
15.6''high color gamut monitor	●	−	−
Image output methods			
5G WiFi	●	●	●
USB	−	−	●
HDMI	●	●	●
Network	−	−	●

! Solution③ HDMI output method is unavailable for 20.0MP cameras.

Features & Benefits

Customized Android OS
4 core CPU + 2 core GPU
4GB DDR4 RAM
32GB eMMC hard drive
Coming with Office software

Imaging module

0.43X tube lens

Easy focus
with Allen key

50:50 splitter prism

- Built-in operating system Android processor RK3399, office suit(Word,Excel, Powerpoint) are preinstalled, no need computer.
- Integrated with 15.6" high-definition ISP display.
- Comes with an imaging app that displays live images upon startup.
- Features a 50:50 light-splitting design that preserves the original optical system.
- Professional NPBS beam splitter to ensure true color reproduction.
- Includes a high-power 0.43X tude lens for a wide field of view.
- 32GB built-in eMMC with support for external U-disk storage for pictures and videos.
- USB interface allows for easy connection of keyboards and mouse.

5G WiFi and HDMI are simultaneous outputs

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. connects to PC via WiFi.

HDMI output

With HDMI output for display on monitors,Tvs and projectors.

Connecting to the Internet

The camera supports wireless Internet connection (only supports 5G WiFi router signal), by entering the password of any 5G WiFi network , you can directly open the browser to access the Internet.
This will allow you to take advantage of online features and functionalities directly from your camera.

①	Power switch	Switch on/off
②	Headphone and microphone ports	Connect with headset cable for audio output
③	USB 3.0 interface	Can be connected to a mouse, keyboard, USB flash drive (for copying videos and images).Or you can use the manufacturer's optional USB to DC 5V power cord to power the CX23
④	USB 2.0 interface	
⑤	HDMI output interface	Transmission via HDMI cable, connected to a display device
⑥	Easy focus with allen key	Simple and precise focus adjustment for synchronization between eyepiece and monitor
⑦	5G WiFi antenna	5G WiFi signal transmission to connect the camera to capture images or control the camera
⑧	USB 2.0 interface	Can be connected to mouse, keyboard, U disk
⑨	Power input	DC 12V 3A

15.6'' high color gamut display

Number of pixels	1920(horizontal) x 1080 (vertical)
Pixels arrangement	RGB vertical stripe
Colour gamut	100%（sRGB)
Display number of colors	16.7M(8Bit)
Surface treatment	Anti-glare
Surface hardness	3H
Viewing angel range	170 horizontal, 170 vertical
Contrast	800
Brightness	500cd/㎡ (average of 5 points)

Applicable to	Evident	Evident
Models	TC200	TC200
Category	ED-A-12	ED-A-20
Physical resolution	12.0MP	20.0MP
Image sensor	SONY IMX412 CMOS	SONY IMX147 CMOS
Exposure mode	Rolling Shutter	Rolling Shutter
Maximum resolution	4000×3000 (12,000,000Pixels)	5184×3888 (20,155,392 Pixels)
ISO sensitivity	Equivalent to 100-12800	Equivalent to 100-12800
Sensor size	1/2.3''	1/2.3''
Pixel size	1.55μm×1.55μm	1.2μm×1.2μm
Spectral response	380-650nm	380-650nm
Exposure capability	Real-time auto and manual adjustment	Real-time auto and manual adjustment
Exposure time	10μs-333ms	10μs-333ms
White balance	Real-time auto and manual RB adjustment	Real-time auto and manual RB adjustment
Preview resolution	4000×3000@30fps,3840×2160@30fps	5184×3888@10fps,3840×2160@15fps
Power supply	DC 12V 3A	DC 12V 3A
Wireless protocol	5G WiFi IEEE802.11ac	5G WiFi IEEE802.11ac
A/D convertsion bit depth	12bit	12bit
Software and App	Windows Software:KoPa Capture Pro,Embedded software:KoPa WiFi Lab AO,App:KoPa WiFi Lab	

Accessories

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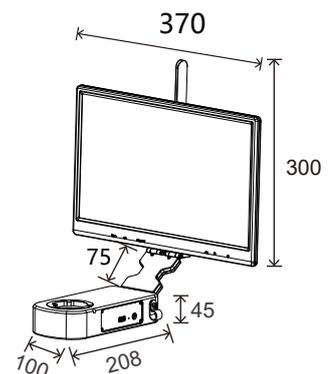(Optional Chinese, American, European,
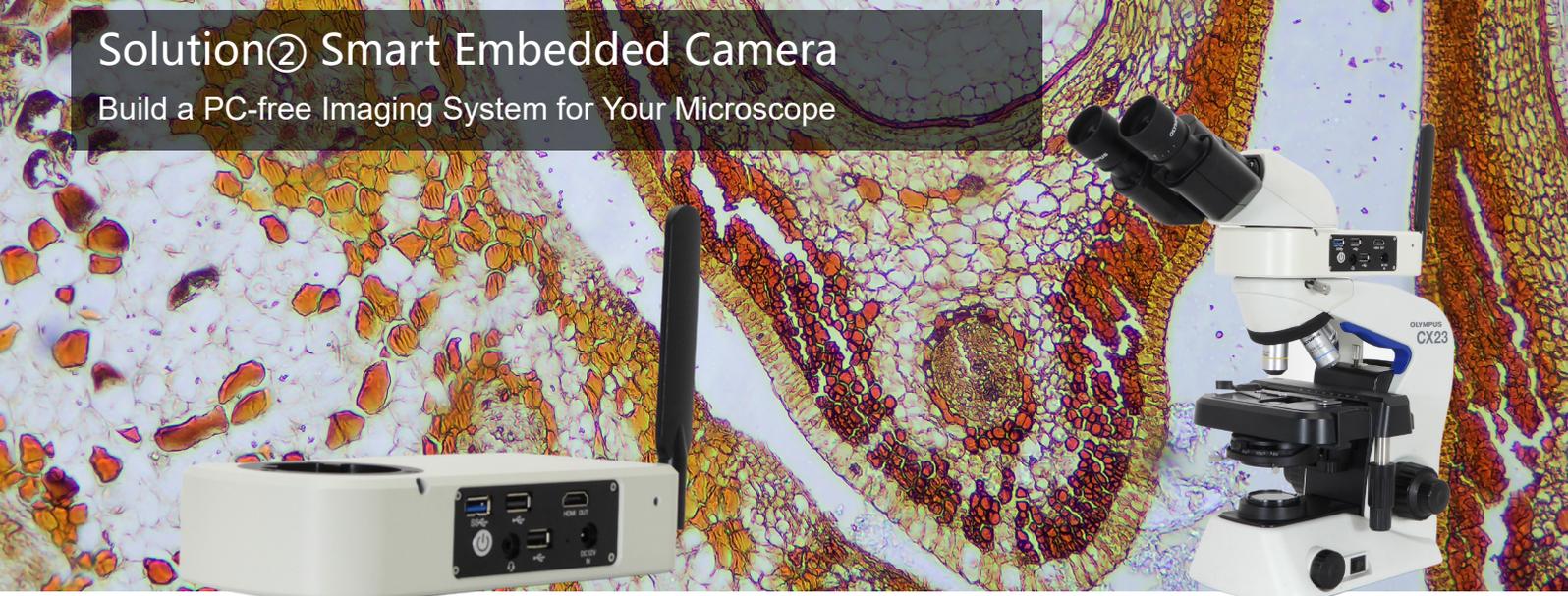Australian, Korean, British standard etc.)

**USB mouse
and keyboard**
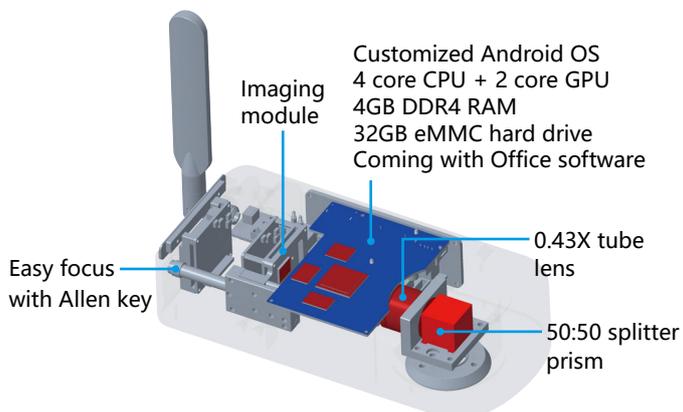
Dimensions(Unit:mm)

Net weight ≈2.6kg

370
300
75
45
100
208

Solution② Smart Embedded Camera
Build a PC-free Imaging System for Your Microscope

Features & Benefits

Imaging module

Customized Android OS
4 core CPU + 2 core GPU
4GB DDR4 RAM
32GB eMMC hard drive
Coming with Office software

0.43X tube lens

Easy focus with Allen key

50:50 splitter prism

- Built-in operating system Android processor RK3399, office suit(Word,Excel, Powerpoint) are preinstalled, no need computer.
- Comes with an imaging app that displays live images upon startup.
- Features a 50:50 light-splitting design that preserves the original optical system.
- Professional NPBS beam splitter prism to ensure true color reproduction.
- Includes a high-power 0.43X tube lens for a wide field of view.
- 32GB built-in eMMC with support for external U-disk storage for pictures and videos.
- USB interface allows for easy connection of keyboards and mouse.

5G WiFi and HDMI are simultaneous outputs

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. connects to PC via WiFi.
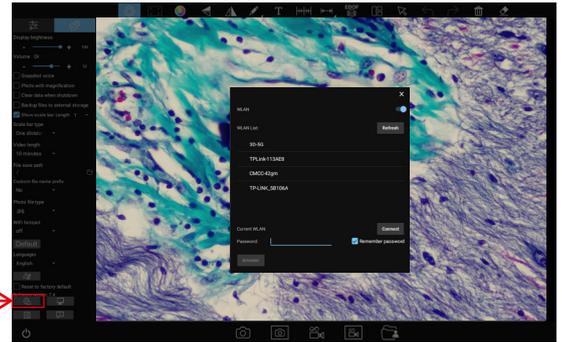
HDMI output

With HDMI output for display on monitors,Tvs and projectors.

Connecting to the Internet

The camera supports wireless Internet connection (only supports 5G WiFi router signal), by entering the password of any 5G WiFi network , you can directly open the browser to access the Internet.
This will allow you to take advantage of online features and functionalities directly from your camera.

①	HDMI output interface	Transmission via HDMI cable, connected to a display device
②	USB2.0 interface	Can be connected to a mouse, keyboard, USB flash drive (for copying videos and images).Or you can use the manufacturer's optional USB to DC 5V power cord to power the CX23
③	USB3.0 interface	
④	Power switch	Switch on/off
⑤	Headphone and microphone ports	Connect with headset cable for audio output
⑥	Power input	DC 12V 3A
⑦	5G WiFi antenna	5G WiFi signal transmission to connect the camera to capture images or control the camera
⑧	Easy focus with allen key	Simple and precise focus adjustment for synchronization between eyepiece and monitor

Specifications

Applicable to	Evident	Evident
Models	HW200	HW200
Category	EC-A-12	EC-A-20
Physical resolution	12.0MP	20.0MP
Image sensor	SONY IMX412 CMOS	SONY IMX147 CMOS
Exposure mode	Rolling Shutter	Rolling Shutter
Maximum resolution	4000×3000 (12,000,000Pixels)	5184×3888 (20,155,392 Pixels)
ISO sensitivity	Equivalent to 100-12800	Equivalent to 100-12800
Sensor size	1/2.3''	1/2.3''
Pixel size	1.55µm×1.55µm	1.2µm×1.2µm
Spectral response	380-650nm	380-650nm
Exposure capability	Real-time auto and manual adjustment	Real-time auto and manual adjustment
Exposure time	10µs-333ms	10µs-333ms
White balance	Real-time auto and manual RB adjustment	Real-time auto and manual RB adjustment
Preview resolution	4000×3000@30fps,3840×2160@30fps	5184×3888@10fps,3840×2160@15fps
Power supply	DC 12V 3A	DC 12V 3A
Wireless protocol	5G WiFi IEEE802.11ac	5G WiFi IEEE802.11ac
A/D convertsion bit depth	12bit	12bit
Software and App	Windows Software:KoPa Capture Pro,Embedded software:KoPa WiFi Lab AO,App:KoPa WiFi Lab	

Accessories

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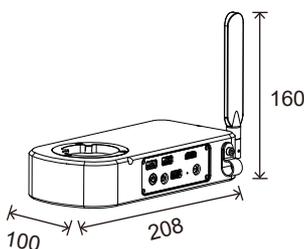Australian, Korean, British standard etc.)
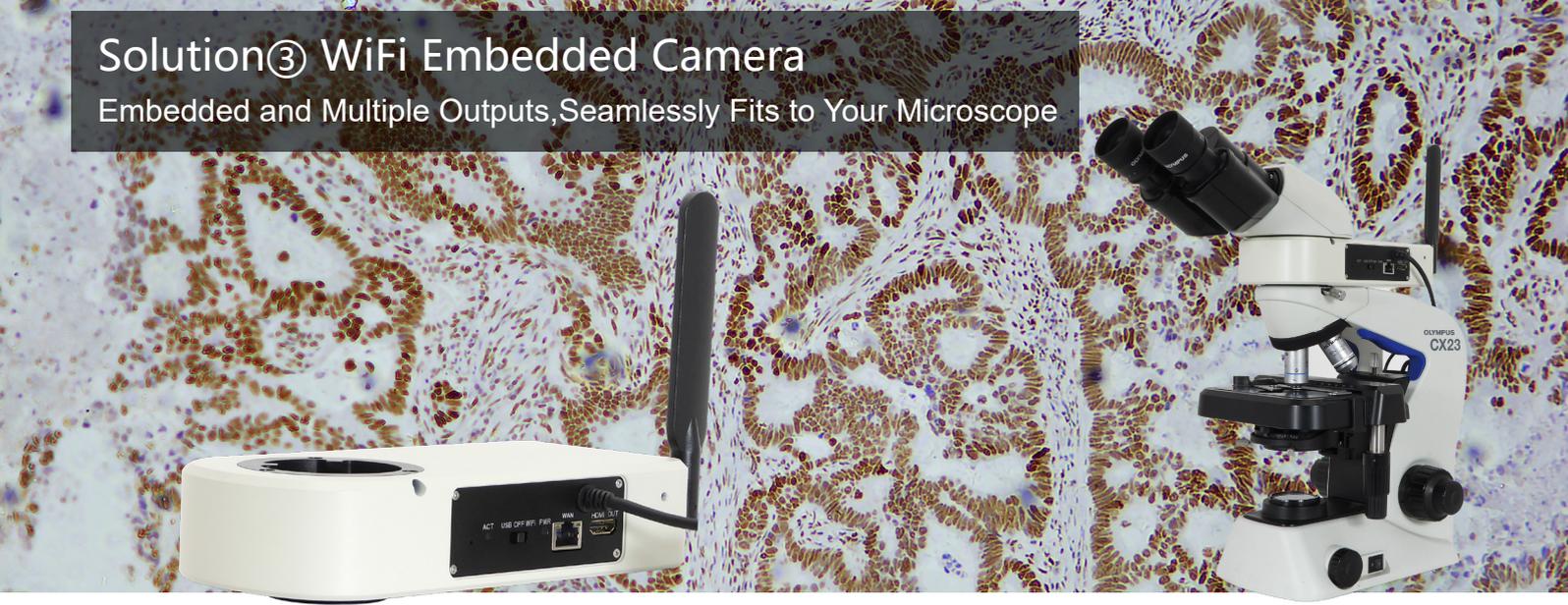
HDMI cable

USB mouse
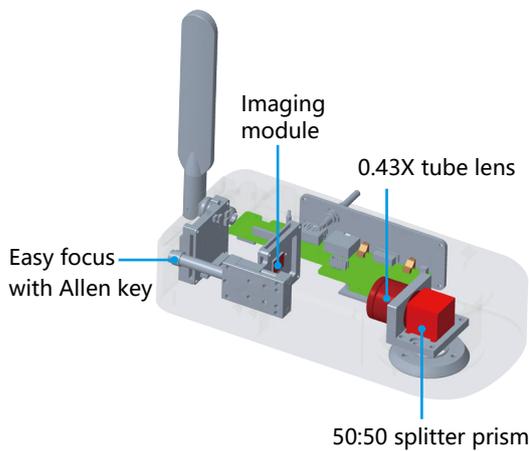and keyboard

Dimensions(Unit:mm)

Net weight ≈1.3kg

160

100   208

Solution③ WiFi Embedded Camera
Embedded and Multiple Outputs,Seamlessly Fits to Your Microscope

Features & Benefits

Imaging module

0.43X tube lens

Easy focus with Allen key

50:50 splitter prism

- Features a 50:50 light-splitting design that preserves the original optical system.
- Professional NPBS beam splitter prism to ensure true color reproduction.
- Includes a high-power 0.43X tube lens for a wide field of view.

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. Allows to connect to PC via WiFi.

HDMI output
Connects to PC via WiFi, with HDMI output for display on monitors,Tvs and projectors.

No software, only live images are available, at which point the camera image properties can be controlled via WiFi or USB.

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	USB/OFF/WiFi working mode switching	Two working modes switching
②	5G WiFi antenna	5G WiFi signal transmission to connect the camera to capture images or control the camera
③	Network output interface	When in WiFi working mode,: connect to a router or switch to access a LAN so that Windows computers, smartphones, and tablets on the LAN can share the microscopic screen; or connect to the Internet directly
④	USB output/ power supply	Two in one: data transmission and power supply
⑤	HDMI output interface (only 12.0MP camera)	The display device is connected and the image can be displayed, but the image cannot be controlled
⑥	Easy focus with allen key	Simple and precise focus adjustment for synchronization between eyepiece and monitor

Specifications

Applicable to	Evident	Evident
Models	FF48	FF48
Category	EB-A-12	EB-A-20
Physical resolution	12.0MP	20.0MP
Image sensor	SONY IMX412 CMOS	SONY IMX147 CMOS
Exposure mode	Rolling Shutter	Rolling Shutter
Maximum resolution	4000×3000 (12,000,000Pixels)	5184×3888 (20,155,392 Pixels)
ISO sensitivity	Equivalent to 100-12800	Equivalent to 100-12800
Sensor size	1/2.3''	1/2.3''
Pixel size	1.55μm×1.55μm	1.2μm×1.2μm
Spectral response	380-650nm	380-650nm
Exposure capability	Real-time auto and manual adjustment	Real-time auto and manual adjustment
Exposure time	10μs-333ms	10μs-333ms
White balance	Real-time auto and manual RB adjustment	Real-time auto and manual RB adjustment
Preview resolution	4000×3000@30fps,3840×2160@30fps	5184×3888@10fps,3840×2160@15fps
Power supply	DC 5V 3A	DC 5V 3A
Wireless protocol	5G WiFi IEEE802.11ac	5G WiFi IEEE802.11ac
A/D convertsion bit depth	12bit	12bit
Software and App	Windows Software:KoPa Capture Pro, App:KoPa WiFi Lab	

Accessories

HDMI cable(optional, only for 12.0MP camera)

Gigabit ethernet cable (optional)

Dimensions(Unit:mm)

Net weight ≈1.2kg

160

208

100