



Microscope Camera Solutions

For Nikon Healthcare

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



<https://www.ostec.com.cn/>

For Binocular Upright Microscopes



Applicable Models:
ECLIPSE Si binocular, Ei binocular, etc.

Solution ①

Smart Embedded Display Camera
With 0.43X tube lens



Solution ②

Smart Embedded Camera
With 0.43X tube lens



Solution ③

USB 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			
WiFi	●	●	–
USB	–	–	●
DP	●	●	–
Network	–	–	–

Solution① Smart Embedded Display Camera

Build a PC-free Imaging System for Your Microscope

Features & Benefits

- Built-in operating system Android processor RK3588-S, office suit(Word,Excel, Powerpoint) are preinstalled, no need computer.
- Integrated with 15.6" high brightness, wide color gamut and blue light filtered 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 (polarized).
- Includes a high-power 0.43X tube lens for a wide field of view.
- 64GB built-in eMMC with support for external U-disk storage for pictures and videos.
- USB interface allows for easy connection of keyboards and mouse.



WiFi and DP are simultaneous outputs



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. WiFi operating bands: 5G (5.180–5.825 GHz); 6G (5.925–6.425 GHz, 6.425–7.125 GHz), manually switchable, select one of two.



DP output

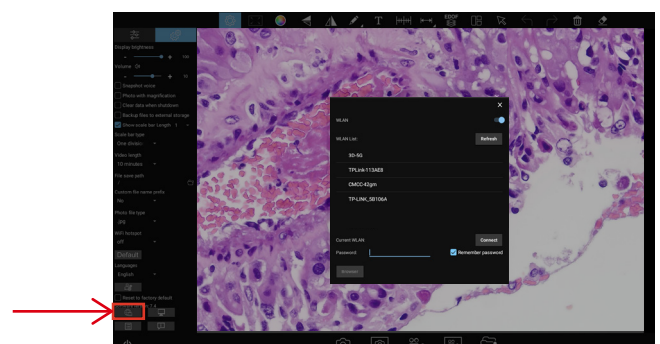
With DP output for display on monitors, TVs and projectors.

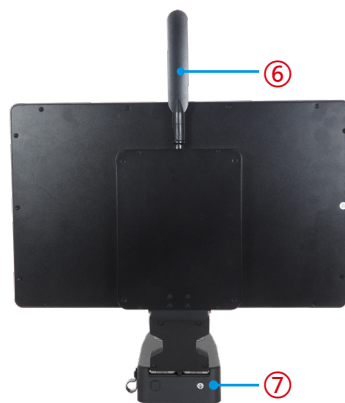


Connecting to the Internet

The camera supports wireless Internet connection (supports WiFi router signal), by entering the password of any 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	USB 2.0 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 DC5V power cord to power the Ei and Si
②	USB 3.0 interface	
③	Power switch	Switch on/off
④	DP output interface	Transmission via DP cable, connected to a display device
⑤	Power input	DC 12V 3A
⑥	WiFi antenna	WiFi signal transmission to connect the camera to capture images or control the camera
⑦	Easy focus with allen key	Simple and precise focus adjustment for synchronization between eyepiece and monitor

Specifications

15.6" high brightness, wide color gamut and blue light filtered ISP display.

Number of pixels	3840(horizontal) x 2160 (vertical)
Pixels arrangement	RGB vertical stripe
Colour gamut	100% Adobe RGB (135% sRGB)
Display number of colors	16.7M(8Bit)
Surface treatment	Anti-glare
Surface hardness	3H
Viewing angel range	170 horizontal, 170 vertical
Contrast	1500 : 1
Brightness	1000cd/m ² (average of 5 points)

Models	TC200
Category	ED6E-N-48
Physical resolution	48.0MP
Image sensor	SONY IMX586 CMOS
Exposure mode	Rolling Shutter
Maximum resolution	8000×6000 (48,000,000Pixels)
ISO sensitivity	Equivalent to 100-6400
Sensor size	1/2"
Pixel size	0.8μm×0.8μm
Spectral response	380-650nm
Exposure capability	Real-time auto and manual adjustment
Exposure time	100us-333ms
White balance	Real-time auto and manual RB adjustment
Preview resolution	8000×6000@14fps,4000×3000@50fps
Photo resolution	8000×6000, 4000×3000
Power supply	DC 12V 3A
Wireless version	WiFi 6E (IEEE802.11ax)
A/D conversion bit depth	10bit
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.)

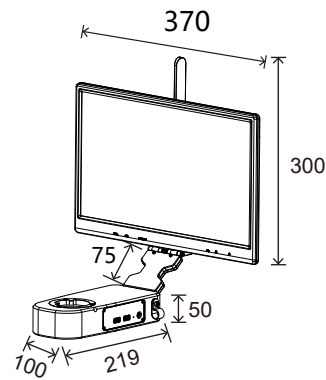


USB mouse
and keyboard



Dimensions(Unit:mm)

Net weight ≈2.6kg



Solution② Smart Embedded Camera

Build a PC-free Imaging System for Your Microscope

Features & Benefits

- Built-in operating system Android processor RK3588-S, 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 (polarized).
- Includes a high-power 0.43X tube lens for a wide field of view.
- 64GB built-in eMMC with support for external U-disk storage for pictures and videos.
- USB interface allows for easy connection of keyboards and mouse.



WiFi and DP are simultaneous outputs



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.
WiFi operating bands: 5G (5.180–5.825 GHz); 6G (5.925–6.425 GHz, 6.425–7.125 GHz), manually switchable, select one of two.



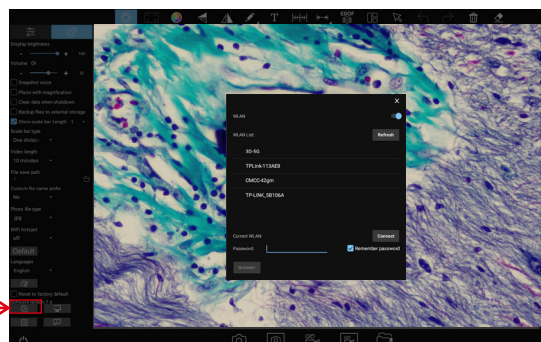
DP output

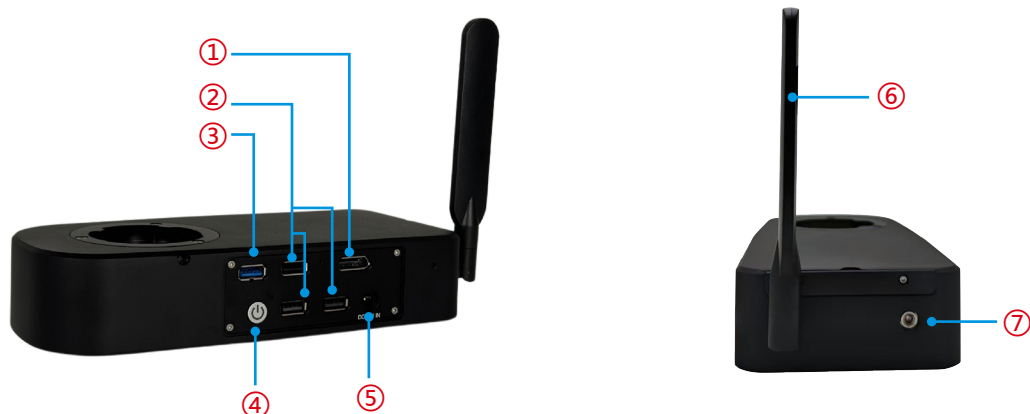
With DP output for display on monitors, TVs and projectors.



Connecting to the Internet

The camera supports wireless Internet connection (supports WiFi router signal), by entering the password of any 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	DP output interface	Transmission via DP cable, connected to a display device
②	USB 2.0 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 DC5V power cord to power the Ei and Si
③	USB 3.0 interface	
④	Power switch	Switch on/off
⑤	Power input	DC 12V 3A
⑥	WiFi antenna	WiFi signal transmission to connect the camera to capture images or control the camera
⑦	Easy focus with allen key	Simple and precise focus adjustment for synchronization between eyepiece and monitor

Specifications

Models	HW200
Category	EC6E-N-48
Physical resolution	48.0MP
Image sensor	SONY IMX586 CMOS
Exposure mode	Rolling Shutter
Maximum resolution	8000×6000 (48,000,000Pixels)
ISO sensitivity	Equivalent to 100-6400
Sensor size	1/2"
Pixel size	0.8μm×0.8μm
Spectral response	380-650nm
Exposure capability	Real-time auto and manual adjustment
Exposure time	100us-333ms
White balance	Real-time auto and manual RB adjustment
Preview resolution	8000×6000@14fps,4000×3000@50fps
Photo resolution	8000×6000, 4000×3000
Power supply	DC 12V 3A
Wireless version	WiFi 6E (IEEE802.11ax)
A/D conversion bit depth	10bit
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.)



DP cable



USB mouse
and keyboard



Desktop Monitor (without operating
system, optional accessory)



15.6" high brightness, wide color gamut and
blue light filtered ISP display

Number of pixels: 3840 x 2160 P60

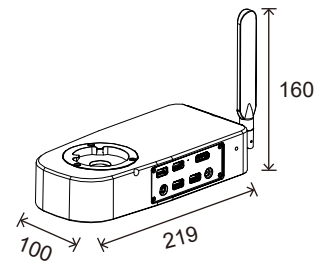
Colour gamut: 100% Adobe RGB(135% sRGB)

Contrast: 1500: 1

Brightness: $\geq 1000\text{cd/m}^2$ (average of 5 points)

Dimensions(Unit:mm)

Net weight $\approx 1.3\text{kg}$



Solution③ USB Embedded Camera



USB output

Connect to a computer via USB cable and use the software “KoPa Capture Pro”.

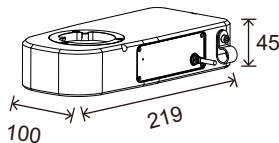


Specifications

Models	CA2000
Category	EA-N-A20
Physical resolution	20.0MP
Image sensor	Onsemi AR2020 CMOS
Exposure mode	Rolling Shutter
Maximum resolution	5120×3840 (19,960,800Pixels)
ISO sensitivity	Equivalent to 100-12800
Sensor size	1/1.8"
Pixel size	1.4μm×1.4μm
Spectral response	380-650nm
Exposure capability	Real-time auto and manual adjustment
Exposure time	10μs-333ms
White balance	Real-time auto and manual RB adjustment
Preview resolution	5120×3840@27.5fps, 3840×2160@30fps
Power supply	DC 5V 2A
A/D conversion bit depth	10bit
Software and App	Windows Software:KoPa Capture Pro

Dimensions(Unit:mm)

Net weight ≈0.7kg



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

The content of this leaflet has been reviewed by our company at the time of its release. Due to technological development, the actual product is subject to change without notice.

The names of other companies, product names, and trademarks **OLYMPUS** **Nikon** **Leica** **ZEISS**    **HarmonyOS** **WQ**  recorded on this leaflet are owned by their companies