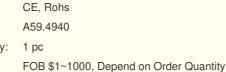
12.0M 1/1.7" Microscope Accessories OPTO-EDU A59.4940-12M 5G WIFI **Digital Microscope Camera**

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- · Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:



CNOEC, OPTO-EDU

- Carton Packing, For Export Transportation
- 5~20 Days

China

- T/T, West Union, Paypal
- 5000 pcs/ Month



Product Specification

- Resolution:
- 12.0M Maximum Resolution: 4000 X 3000 (2,073,600 Pixels) Sensor Optical Format: 1/1.7" (6.058mm(H) X 4.415mm(V)) • Pixel Size: 1.85µm X 1.85µm • Dynamic Range: >80dB ≥50dB • SNR(Signal Noise Ratio): • Spectral Characteristics: 380~650nm • Exposure Capability: Real-time Auto, Single Auto, Manual Adjustment • White Balance: Real-time Auto, Single Auto, Manual Adjust **RGB** Seperately Record Format: Resolution:4000x3000 • Highlight:
 - microscope accessory, parts of the microscope , compound microscope parts



More Images





Our Product Introduction

New Generation 5G Wifi(11ac) High Speed Resolution 2.0M/5.0M/8.0M/12.0M

12.0M 1/1.7" Microscope Accessories OPTO-EDU A59.4940-12M 5G WIFI Digital Microscope Camera

Our Product Introduction

Independent Camera Desinged For Rapid Upgrades In The Future

Support Four Major Systems: Windows, Mac, Ios, And Android Self-built LAN, High-speed And Stable Date Transmission

Smartphones, tablets, and laptops are the carriers of modern networked knowledge. A59.4940 5G WiFi (11ac) Interactive Microscope Classroom System gives us a great sharing platform that liberates you from device or location and give you unlimited access and function to knowledge -making learning fun and engaging us in the 21ist technolo-gy. Let's face it, everybody that has a smartphone /tablet are walking computers with access to data on moments notice via text or verbal commands. The future is here. It only takes a microscope, a WiFi camera and an App to let student / teacher collaboration meet anywhere. Where the students take this technology from here is the most exciting part.We have successfully integrated every microscope in the classroom with this new technology.

Product Description

Student Camera	2.0M	5.0M	8.0M	12.0M	
Teacher Camera	2.0W	5.0W	8.0W	12.0W	
Resolution	2.0MP	5.0MP	8.0MP	12.0MP	
Image Sensor	SONY IMX291 CMOS	SONY IMX178 COMS	SONY IMX274 COMS	SONY IMX226 COMS	
Exposure Mode	Rolling Exposure	Rolling Exposure	Rolling Exposure	Rolling Exposure	
Maximum Resolution	1920 x 1080 (2,073,600 Resolution)	2592 x 1944 (5,038,848 Resolution)	3840 x 2160 (8,294,400 Resolution)	4000x 3000 (12,000,000 Resolution)	
Sensor Size	1/2.8"	1/1.8"	1/2.5"	1/1.7"	
Pixel Size	2.9µm x 2.9µm	2.4µm x 2.4µm	1.62µm x 1.62µm	1.85µm x 1.85µm	
Dynamic Range	128dB	>80dB	>80dB	>80dB	
Signal-to-noise Ratio	30dB	≥50dB	≥50dB	≥50dB	
Spectral Response	380-650nm				
Exposure Capability	Real-time Automatic, Single-time Automatic, Manual Adjustment				
White Balance	Real-time Automatic, Single-time Automatic, Manual R B Separately Adjusted				
Record Format	Photo Picture Format:JPG Resolution:1920x1080 Video Video Format:MOV Resolution: 1920X1080@50FPS(50H z), 1920X1080@60FPS(60H z), 1280x720@50FPS(50Hz),	2592X1944@30 FPS, 2560X1920@30 FPS, 2048x1536@30 FPS,	Photo Picture Format:JPG Resolution:3840x2160 Video Format:MOV Resolution: 3840X2160@25 FPS, 2592X1944@25 FPS, 2048x1536@25 FPS	Photo Picture Format:JPG Resolution:4000x3000 Video Video Format:MOV Resolution: 4000X3000@15 FPS, 4096X2160@25 FPS, 3840x2160@25 FPS, 2592x1944@25 FPS	

OPTO-EDU

5G Wifi Interactive Education System



- New Generation 5G Wifi(11ac) High Speed
- ດີ Resolution 2.0M/5.0M/8.0M/12.0M
- (•) Support Four Major Systems: Windows, Mac, Ios, And Android
- X- Self-built LAN, High-speed And Stable Date Transmission
- K Independent Camera Desinged For Rapid Upgrades In The Future





SYSTEM COMPOSITION



Smartphones, tablets, and laptops are the carriers of modern networked knowledge. A59.4940 5G WiFi (11ac) Interactive Microscope Classroom System gives us a great sharing platform that liberates you from device or location and give you unlimited access and function to knowledge -making learning fun and engaging us in the 21ist technolo-gy. Let's face it, everybody that has a smartphone /tablet are walking computers with access to data on moments notice via text or verbal commands. The future is here. It only takes a microscope, a WiFi camera and an App to let student / teacher collaboration meet anywhere. Where the students take this technology from here is the most exciting part.We have successfully integrated every microscope in the classroom with this new technology.



rate can reach 2600Mbps @ 5G Hz.

Master 5G WiFi (11ac) ViMatrix Model	Teacher Side Master 5G WiFi (11ac) ViMatrix	
Interface	4 x 10/100/1000BASE-T Ethernet RJ45 Interface 1 x 10/100/1000BASE-T Ethernet RJ45 Interface	
Button	Power On/Off	
Lights	Power Light, Status Light	
Antenna	9 High-gain Single-band Antennas	
External Power Supply	AC100~240V/1.5A (Max)	
Wireless Parameters		
Protocol Supported	5G WiFi IEE802.11ac	
Frequency	5.180-5.825GHz	
Signal Rate	2600Mbps	
Transport Security	WPA/WPA2, WPA-PSK/WPA-PSK2 Encryption	
WAN Type	Dynamic IP	
Protocol	Supports IPV4 And IPV6	

05 Student Side Vimatrix Mini

One high gain single frequency external antenna.

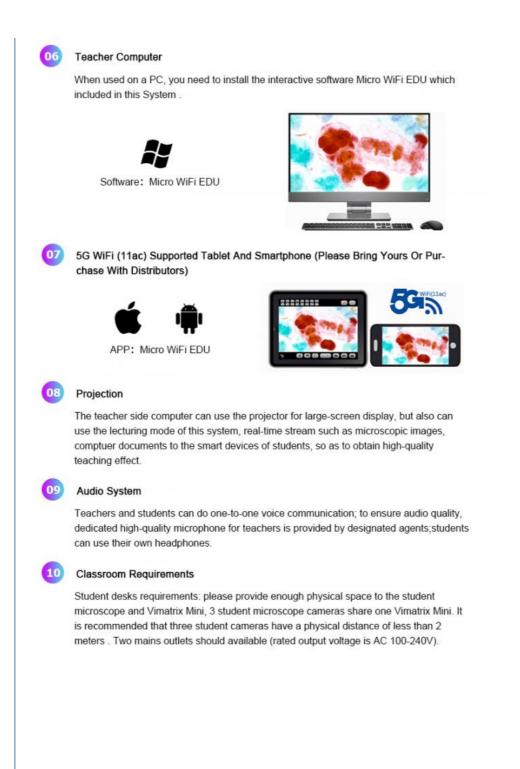
	Friendly-designed three 5V 2A USB charging interface, availble for students to charge their smart devices in the classroom.
\frown	

(up))

Three power ports for microscope camera.

Three cameras share one ViMatrix Mini.

Student - side 5G WiFi (11ac)ViMatrix Mir Model	ⁱⁱ Student Side Vimatrix Mini	
Interface	3 x 10/100BASE -T Ethernet RJ45 Interface	
Button	Power On/Off	
Lights	Power Light, Status Light	
Antenna	1 High-gain Single-band Antennas	
External Power Supply	DC12V 5A	
Wireless Parameters	·	
Protocol Supported	5G WiFi IEE802.11ac	
Frequency	5.180-5.825GHz	
Signal Rate	450Mbps	
Transport Security	WPA/WPA2, WPA-PSK/WPA-PSK2 Encryption	
Protocol	Supports IPV4 And IPV6	



THREE INTERACTIVE SYSTEM SOLUTIONS



One microscope vs. 1 - 8 smart devices. Suitable for small laboratory / class / workshop, etc.





Solution:

1.5G WiFi (11ac) camera (choose from the following models) :

12.0M, 8.0M, 5.0M, 2.0M(please refer to the specifications of corresponding models)

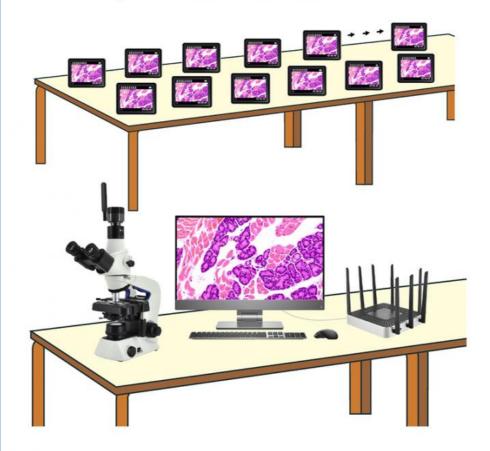
2.Windows PC software: Micro WiFi Lab

3.Smart devices applications: Micro WiFi Lab

4.Smart devices (purchased with a distributor or provide for oneself) : support iOS, Android and Windows systems;

5.Hardware requires 5G WiFi(11ac) while laptop or desktop without 5G WiFi(11ac) requires an external network card.

One microscope vs. 11-50 smart devices. Suitable for large and medium-sized laboratories / classrooms /seminars and so on.



Solution:

- 1.5G WiFi (11ac) camera (choose from the following models) :
- 12.0M, 8.0M, 5.0M, 2.0M(please refer to the specifications of corresponding models)
- 2.Master ViMatrix Teacher Side
- 3.Windows PC software: Micro WiFi EDU
- 4.Smart devices applications: Micro WiFi EDU

5.Smart terminal (purchased with the agent or provide for oneself) : support iOS, Android and Windows systems;

6.Hardware requires 5G WiFi(11ac) while laptop or desktop without 5G WiFi(11ac) requires an external network card.

12-60 microscope vs. 12-60 smart devices.

It is suitable for the microscope education activities of 12-60 people in universities, research institutes, hospitals and so on.

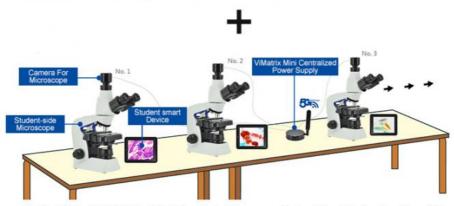


5G WIFI INTERACTIVE EDUCATION SYSTEM LAYOUT

Real Time Images Under Student Microscope Will be Transmitted By 5G WiFi To Teacher Side Computer, Shown All In One Screen. Student Can View His Micro Image On Any Smart Device Like Mobile Phone, iPad, iPhone.



Teacher Side: Master 5G WIFI ViMatrix + Teacher WIFI Camera + Teacher Interactive Software Micro WiFi EDU + Microscope



Student Side: 5G WIFI Vimatrix Mini + Student Camera + Student Smart Device App Micro Wifi EDU + Microscope

TEACHER INTERACTIVE SOFTWARE MICRO WIFI EDU

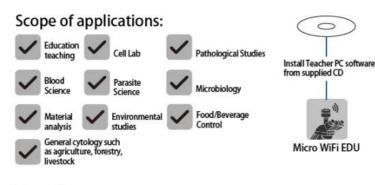
Six main interactive teaching methods allows arbitrary composition of use



· User-friendly interface with icons, easy to identify and quickly use.

Each function has been designed to be very accessible and helpful to education and research.

Unique black background, eliminate miscellaneous light interference, improve microscope image recognition.



Lecturing mode



The teacher PC screen or the selected student smart device screen is streamed to all student smart devices synchro-nously.



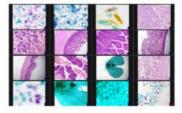
Lecture materials such as PPT/ WORD/ EXCEL are displayed on the smart device of students in real time to enrich the teaching content.



The operation process of the teacher PC or the selected student smart device is displayed to all student smart devices synchronously.

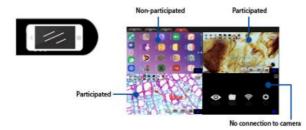
Monitor live-image under microscope camera





Teachers can easily capture all camera live-image, confirming that all cameras are connected successfully.

Monitor smart devices screen



Real-time monitoring of all student smart devices screen to ensure that all students participate in learning. The students' annotations, measurements, and other operations in the APP are displayed on teacher's PC. The progress of the study can be checked at any time. The teacher can show the selected student smart devices screen to all students.

Demonstrate student works



Live-demo the selected camera video to the entire student smart devices.

Annotate student works



Annotate and edit selected images and documents, and send the operation process to all student smart devices in real time.

Annotation tools:



Concentric circle



Rectangular

-
- Static picture comparison

Select font

- Dynamic Video comparison
- · Static vs. dynamic mixing comparison
- · Support for cross-window annotating
- · Support teacher-to-peer comparison with 06 selected students

Elliptic

Interactive shortcuts

- Multi-page camera monitoring window, capturing the teacher-side image and all student-side real-time image simultaneously.
- Take picture, record, screen-capture, screen-record for single or multiple student-side images.
- Smart settings for camera : restore all camera default parameters; Restore all camera default names;
- Disable parameters adjustment on all smart devices.
- Modify the camera name; restore the current camera default name.
- . The teacher receives students ' voice and answers one-on-one questions.
- Delete all documents with one click and reset the system with one click (convenient for next class teachers and students).
- Smart devices black and white list management: delete all white list and blacklist; allow Smart devices authorization message popup; The smart device is authorized to join into the system in order. Check all authorized samart devices list.

23 measurement tools to meet basic teaching requirements.





Teacher-side mobile Mini PC (optional)



The mobile Mini PC has the same control and functions as the teach-er-side PC, enabling easy mobile teaching in the classroom.

STUDENT SMART DEVICE APP MICRO WIFI EDU



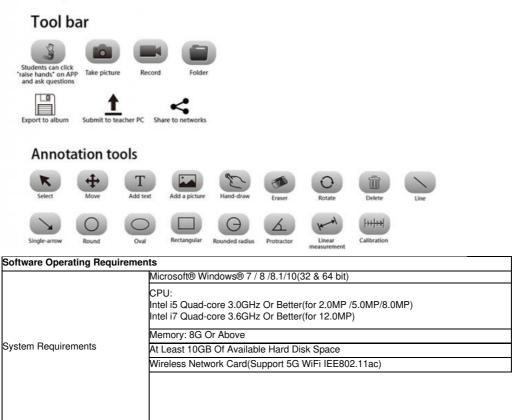
· Scan supplied "student seat QR code" to access micro image directly.

Take photos / videos and record important content in real time.

· Annotate, measure, doodle, add pictures, improve learning efficiency.

The student smart devices and the teacher-side PC can send each other voice realizes individual counseling.

Generates learning / research reports within student APP easily and can sent to teacher's email immediately.



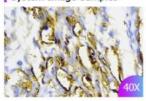
iOS Requirements	iPhone X/ 8/ 8 Plus/7/ 7 Plus/6s/6s Plus/ 6/6 Plus iPad Pro(12.9 Inches,2nd Generation)/(12.9 Inches,1st Generation)/(10.5 Inches)/(9.7 Inches) iPad Air 2/iPad Mini 4 And Other New Devices That Support The 5G WiFi (11ac) Protocol	
	iOS11.0 And Later System	
	Android 5.0 And Later System	
	CPU: Dual Core 1.7GHz And Later	
Android Requirements	Memory RAM:2G Or More	
	Storage ROM: 8G Or More Recommended	

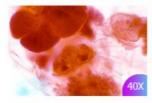
APPLICATION AND CASE

Example 5G Wifi Interactive Education System



System Image Samples

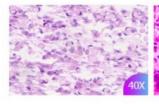


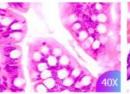




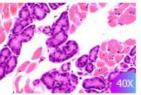






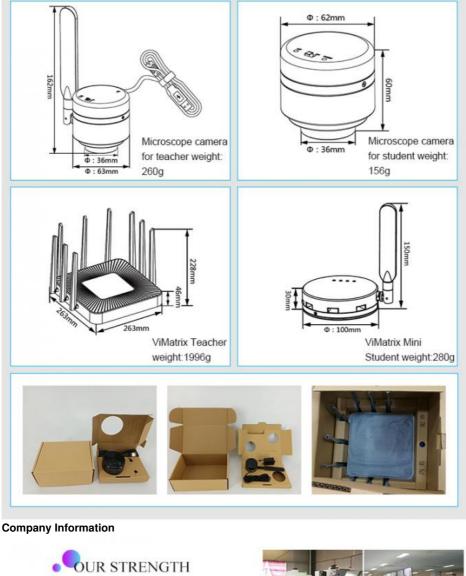


10)



PACKING AND SHIPPING

Packing : Polyfoam Protection And Strong Carton Shipping Time : 5~20 Days After Receive The Deposit



- 25+ Yeas Professional Experience Know Microscopes Best
- 150+ Microscope & Accessory Manufacturers From China
- 200+ Hot Sale & Newest Update Microscope Model Every Month
- 720+ Customers From All Over World Keep Rising
- 1200+ Microscope Models To Creat One-Stop Purchase Platform
- OPTO-EDU As Famous Brand For Microscope In China & USA
- Top Seller For Microscope on Alibaba Recommand To 99% User
- Most Professional Sale Team Supply Best Microscope Solution





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