



PrimeCam Intervision 12 PRO

All-in-one Microscope Camera

Solution for
Trinocular
Microscopes

4K
ULTRAND
High
Resolution

5G
Wireless
Wi-Fi Smart

LIVE
View
Real-Time

**USB
3.0**
USB
Speed



Multiple
Devices



App for iOS and Android
Available on the
App Store
Available on Google play

Available to:



High Resolution camera, Wi-Fi 5G smart for **multiple devices in real time**, HDMI, 12 MP. Upgrade your **microscope with camera without any adapter**, between the body and observation tube.

Camera
software



Windows 10

Digital Camera

PrimeCam Intervision 12 PRO

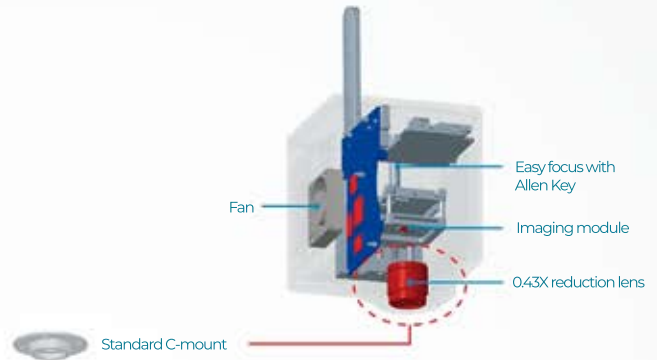
All-in-one Microscope Camera

Solution for
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Product Advantages

Integrated architecture, precise coupling beam splitting

0.43X aberration correcting tube lens, precision parfocal mechanism.



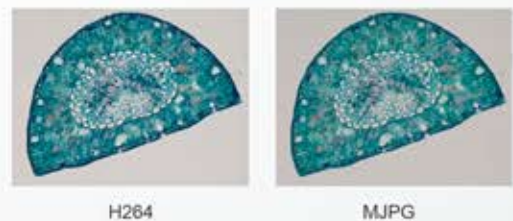
High capacity control board

With Standalone mode you don't need a computer, to use and manage your camera.



High frame rate at full resolution true color restoration

H264 image algorithm, dual stream real time output. Accurate color reproduction, under the mirror is the screen, a camera with multiple working modes.



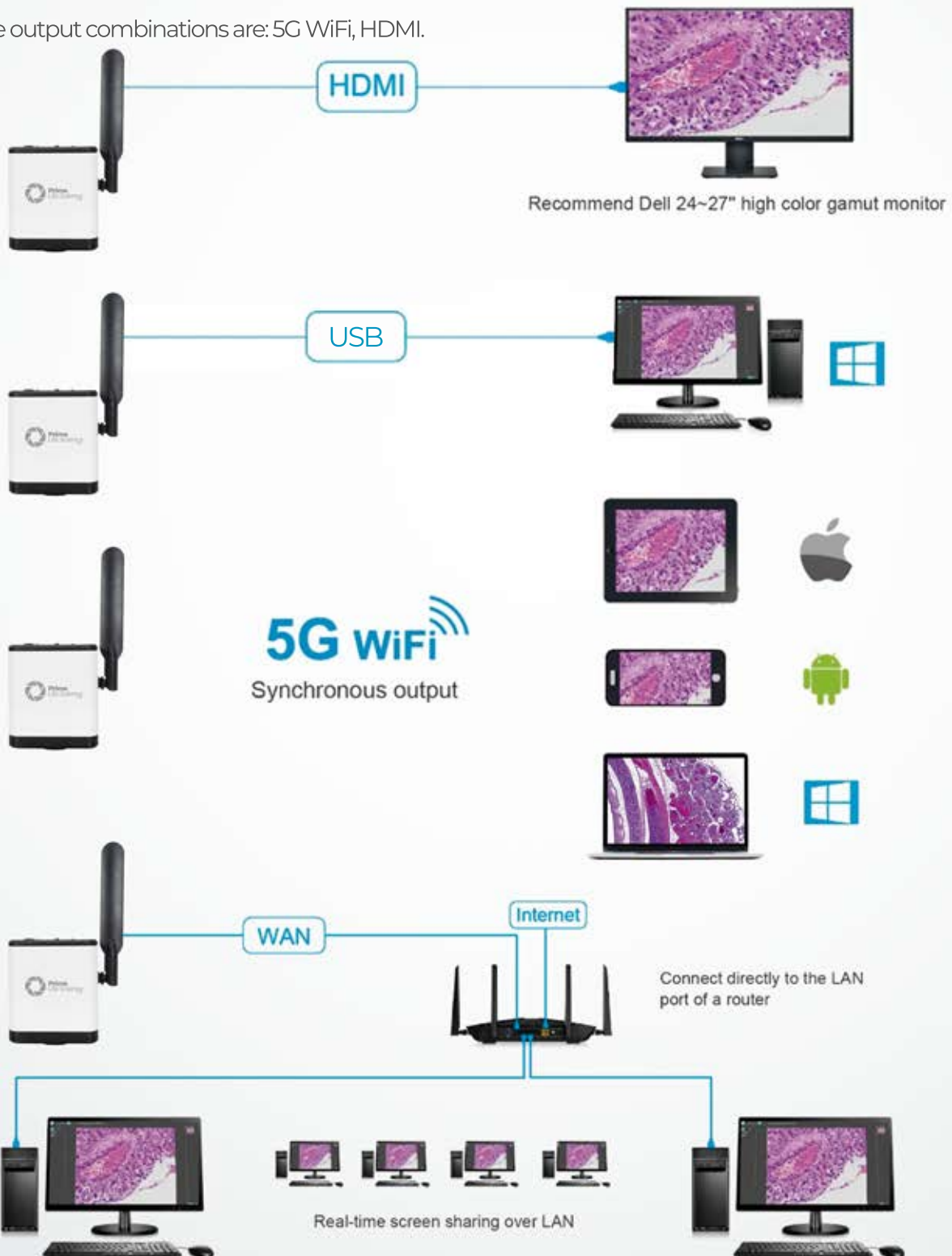
Scalable linkage APP and PC Software

Mobile terminals or PCs equipped with the company's dedicated software (or APP) can control the camera synchronously through 5G WiFi hotspot in the main board.



Multiple image output methods

The output combinations are: 5G WiFi, HDMI.



Accessories, product dimensions and weight

Power adapter and power cord



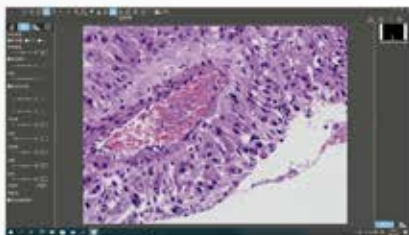
HDMI cable (2m)



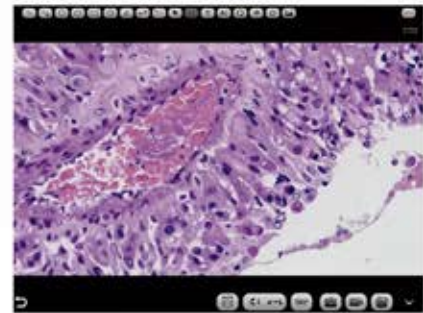
Allen Key (3mm)



About Software and APP for Stand-alone Cameras



For Windows



For IOS and Android

Windows Software: PrimeCam Pro

5G WiFi + USB

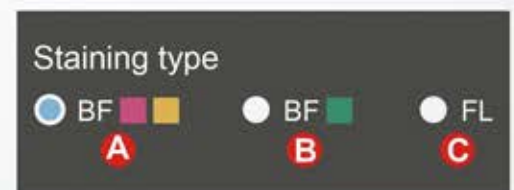
PrimeCam Pro is a ready-to-use Windows version software that requires no additional driver installation. It works with the full range of PrimeCam 12.0MP, and higher resolution cameras and supports WiFi 5G connections, providing users with more versatile and convenient ways to transfer images.



Staining type based on color calibration

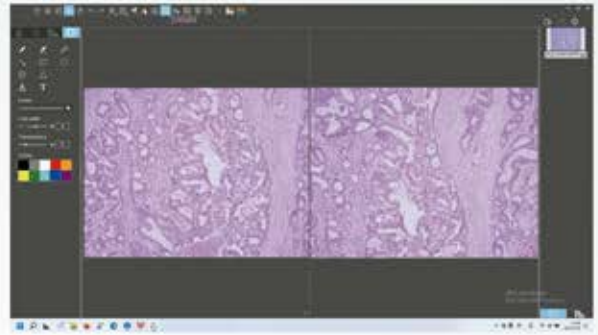
Users can choose different image modes according to the staining method of pathological sections to obtain more accurate image color.

- A** - Used in bright field for slides mainly in pink or gold.
- B** - Used in bright field for slides mainly in cyan.
- C** - Used in fluorescence mainly.



Comparison Mode

The PrimeCam Pro can display any two or four images for comparison, supporting static image comparison, dynamic image comparison, static and dynamic mixed comparison.



Common tools



Annotation Tools



Measuring tools

PrimeCam Pro provides the commonly-used measurement tools & scale bar, and supports the generation of reports in PDF, Word or Excel format according to measurements.



name	length	reference(Pixel)	unit	Note
Sample	100	200	µm	

name

Actual length

Reference(Pixel)

Unit

µm

Decimal Places

3

Additional remark

Apply Add Edit Delete

- Export to PDF
- Export to Word
- Export to Excel
- Print
- Export to email

Serial No.	Measure Item	Measured value
1	Circular measurement	Radius=48.500µm Perimeter=304.734µm Area=7389.612µm
2	Concentric circle measurement	Radius1=76.800µm Perimeter1=231.222µm Area1=4254.502µm Length=125.680µm Radius2=17.361µm Perimeter2=115.620µm Area2=2454.300µm

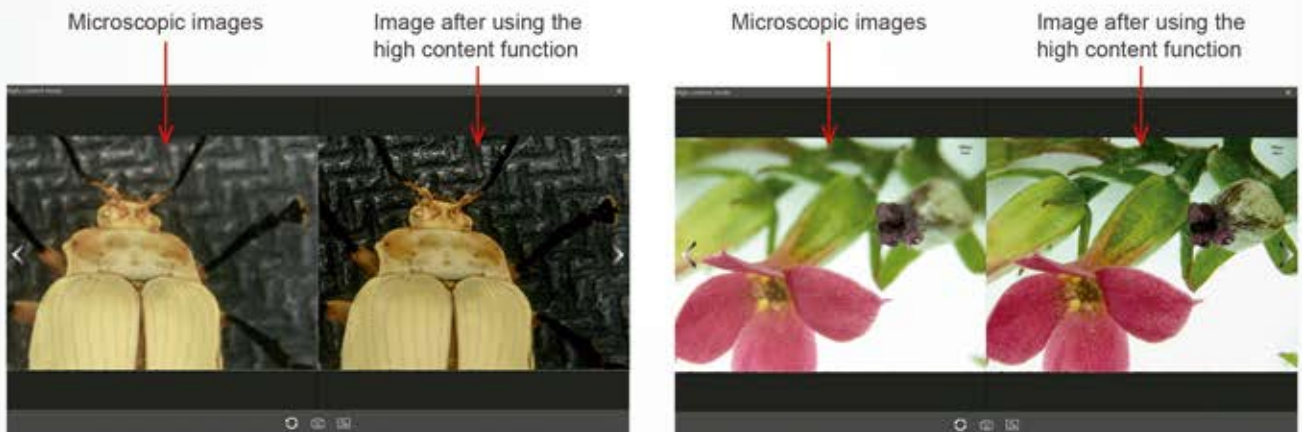
Camera properties settings

With image properties memory function, restarting the software will restore the image properties value before the software is closed. Support adjusting target brightness, exposure, gain, white balance, image RB parameters, contrast, chroma, saturation, sharpness, gamma, restore the default parameters (Default) and etc.



Automatic depth-of-field fusion function for high content images

The automatic depth-of-field fusion function for high content images uses cutting-edge image processing algorithms and real-time fusion technology, aiming to break through the limitation of insufficient depth-of-field in high magnification objective lenses, and to adjust the focal length can obtain a greater depth of field, thus obtaining a sharper image than a real-time single-frame image. Support PrimeCam PRO and higher resolution cameras, take one picture, two archives.



Manual counting function

Convenient to count the number of cell nuclei and export statistical reports with one click

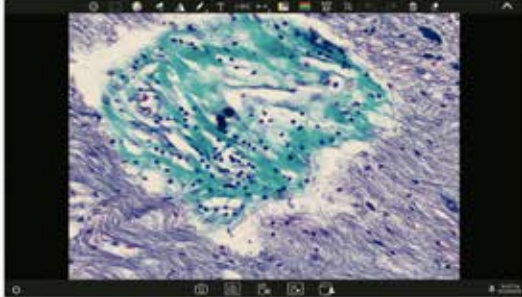


Statistical reports

Channel	Count	Area	Perimeter
20			
Statistics			
Min	1	124	50
Max	888	401	53
Avg	302	801	93
Stdev	274	1254	70
Sum	271	1092	51
Min	107	236	108
Max	638	277	51
Avg	191	384	13
Stdev	655	1228	85
Sum	1877	149	88
Min	1788	1381	99
Max	1344	1595	117
Avg	1253	1358	56
Stdev	1002	2028	52
Sum	1365	2578	71
Min	2365	2851	103
Max	2628	2275	75
Avg	2884	1574	47
Stdev	2874	1524	71
Sum	2445	149	82
Statistics			
Min	1	124	13
Max	2804	2528	117
Avg	373	3254	135
Stdev	2685	3374	140
Sum	1474	1578	23
Variance	1049157	888724	6.262
Std Dev	1024	941	5728
Count	20		

Manual counting function

PrimeCam Pro is an Android version APP, which is pre-installed into the PrimeCam cameras or smart cameras at the factory and does not need to be installed by the user. After the camera hardware starts, it will automatically enter the PrimeCam main interface. This APP can not be uninstalled by the user, but it can be updated and upgraded through a USB flash drive.



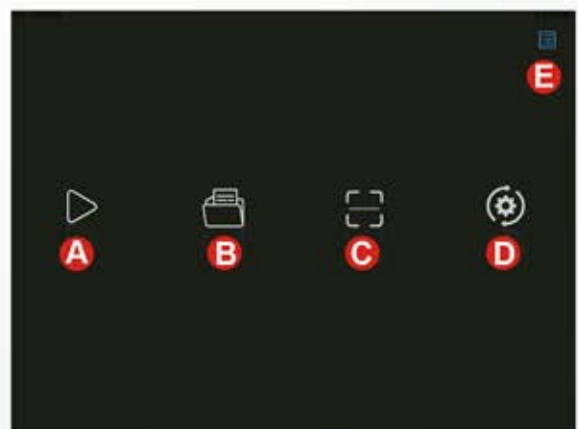
Calibration and Measurement

Built-in calibration for 4X, 10X, 40X, 100X of microscopes CX23, Ei, E100, students do not need to calibrate themselves; support creating calibration for other microscope models.



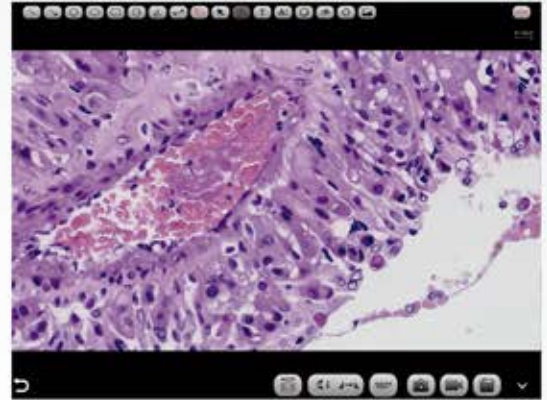
App for smart devices: PrimeCam Pro 5G WiFi

- A Preview:** Image preview window.
- B Folder manage:** photos and videos management.
- C Scan:** scan the camera's serial number QR code to obtain images (to ensure preview speed, it is recommended that no more than 10 smart terminals are connected to the same camera at the same time).
- D Settings:** App settings.
- E Operation guide:** show/hide.



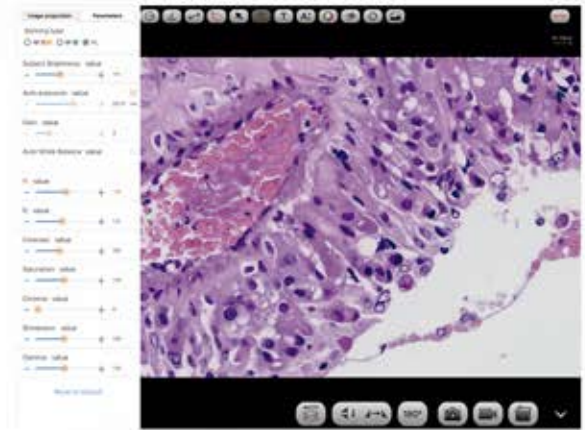
Navigation interface

Commonly used tools: annotations, measurements, image capture



Camera settings

Almost adjustment-free, open manual adjustment, support adjusting target brightness, auto/manual exposure, gain, auto/manual white balance (RB channels are adjusted separately), contrast, chromatic, saturation, sharpness, gamma, restore default



Staining type based on color calibration

Users can choose different image modes according to the staining method of pathological sections to obtain more accurate image color.

Preset mode

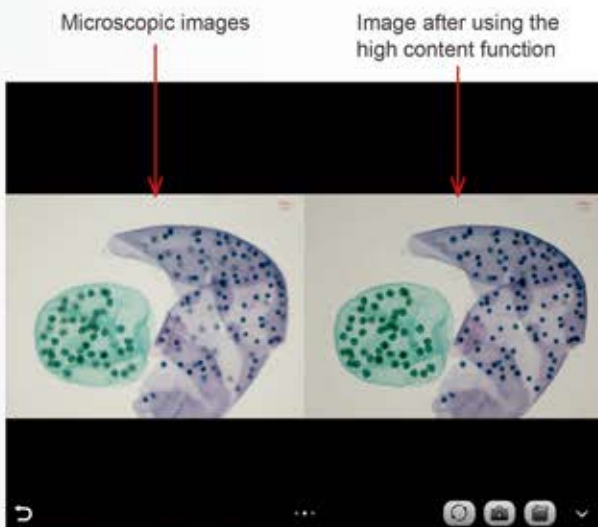
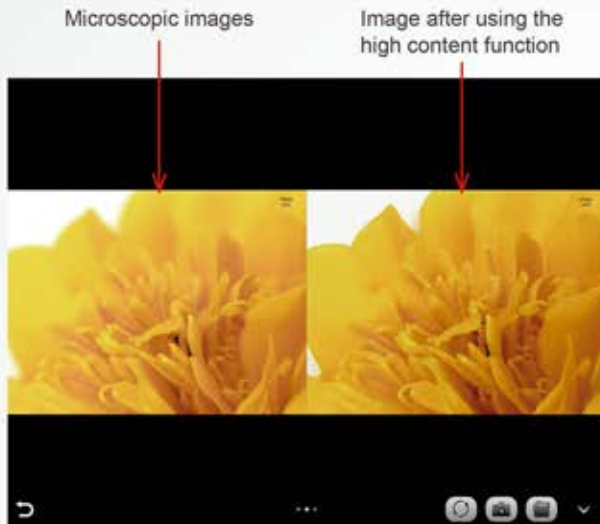
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Staining type



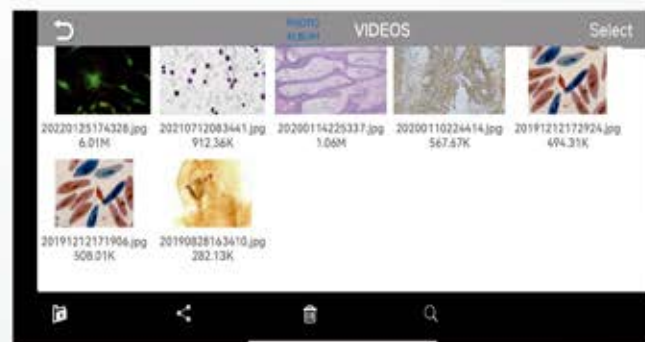
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Folder Management

Supports viewing pictures and videos, renaming, exporting to local albums, sharing to social networks, deleting, and searching by file name.





Camera intervention series available:



Connection Camera

Download PrimeCam APP



Scan QRCode camera and get the image in yor in device



Specifications

Applicable to	Nikon	Olympus	Leica	Zeiss
Models	NI2PRO	OI2PRO	LI2PRO	ZI2PRO
Physical Resolution	12.0 MP			
Image Sensor	SONY IMX412 CMOS			
Exposure Mode	Rolling Shutter			
Maximum Resolution	4000x3000 (12000Pixels)			
ISO sensitivity	Equivalent to 100-12800			
Sensor Size	1/2.3"			
Pixel Size	1.55µmx1.55µm			
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	4000x3000@30fps - 3840x2160@30fps			
Power Suplly	DC 12V 5A			
WiFi Protocol	5G WiFi IEEE802.11ac			
Conversion Bit Depth	12bit			
Software and App	PrimeCam			

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 Japaneses telecommunications law directive.
5. Comply with the "Directive on the Restrictive of the Use of Certain Hazardous Substances in Eletrical and Eletronic Equipment" (RoHS) Directives in accordance with EU legislation.



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+ 1 (786) 305-8327
 e-mail: sales@primelifescience.com



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