Prime Life Science .corp

PrimeCam Intervision With Screen

All-in-one Microscope Camera

Solution for Binocular Microscopes

4K ULTRAHD
High Resolution

5G
Wireless WI-FI Smart

LIVE
View Real-Time

Headphone Output

USB 3.0
USB Speed

Multiple Devices

App for IOS and Android

Google play

App Store

Available to:

Nikon ZEISS Leica OLYMPUS

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

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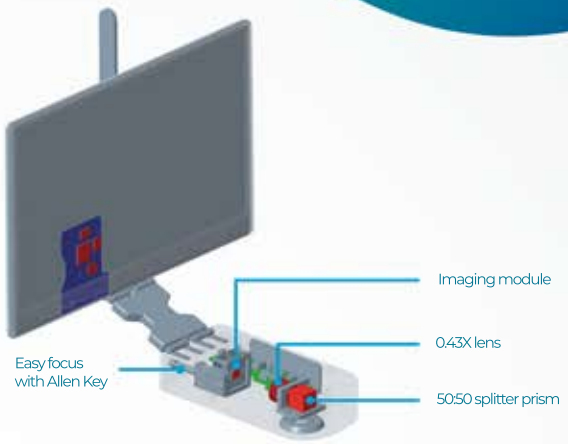
Product Advantages

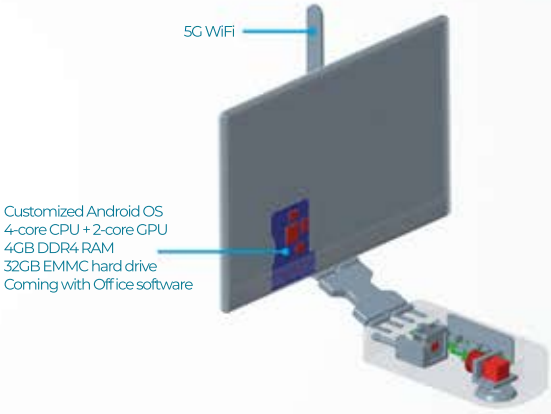
Integrated architecture, precise coupling beam splitting

50:50 splitter prism, 0.43X aberration correcting tube lens, precision parfocal mechanism.



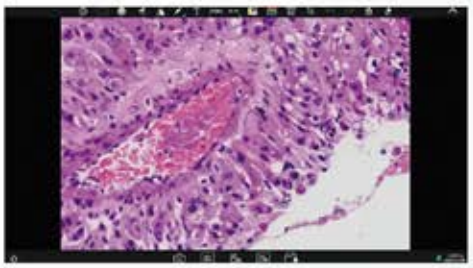
High capacity control board

With Standalone mode you don't need a computer, to use and manage your camera. Connect a keyboard and mouse to use all camera functions and storage your images.



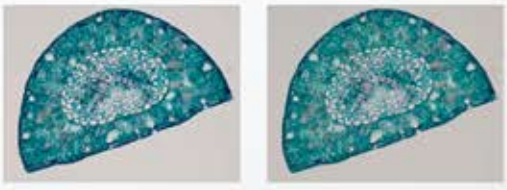
Customized built-in software

Compatible with mobile Microsoft Office and WPS office suite, can install third-party Android Apps. System resource calling, microscopic image processing, easy to operate.



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 equiped 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

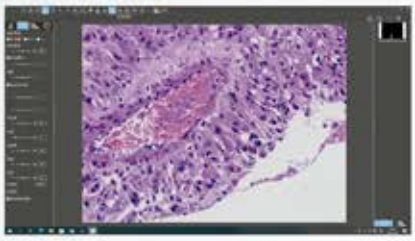
Power adapter and power cord

HDMI cable (2m)

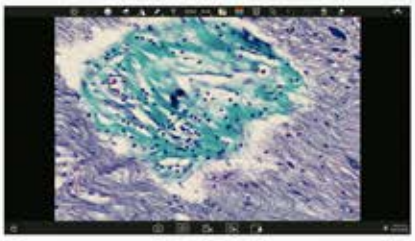
Allen Key (3mm)

Wired mouse and keyboard

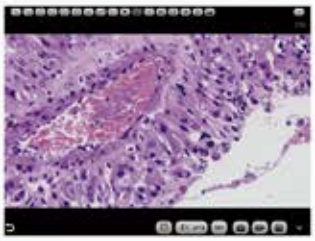
About Software and APP for Stand-alone Cameras



For Windows



Camera Screen
Bult-in Software



For IOS and Android

Windows Software: PrimeCam Pro

5G WiFi

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.

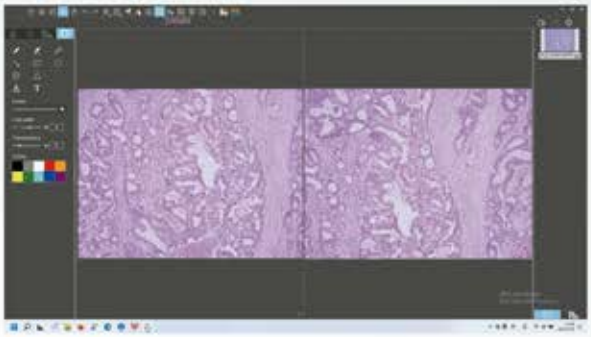
Staining type based on color calibration

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

Open Save Preview Select Move Undo Redo Delete Screen Flip Mirror Capture Screenshot

Record Screen Record High-content mode Crop to equal scale

Annotation Tools

Pencil Glow stick Straight line Arrow Rectangle Round Triangle Concentric circles Font Add text

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.

Linear distance Circular Rectangle Three-point angle

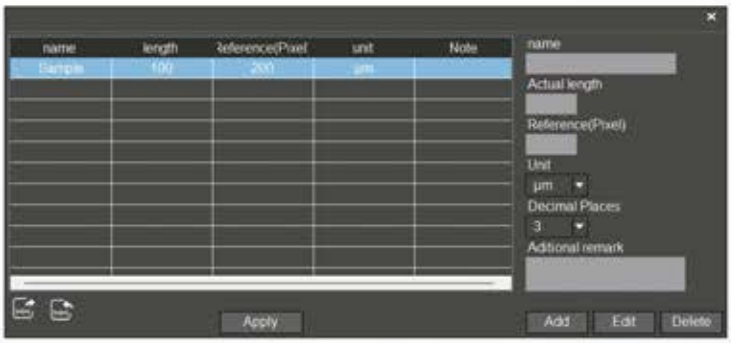
Parallel line spacing Center distance of double parallel lines Polyline Polygon

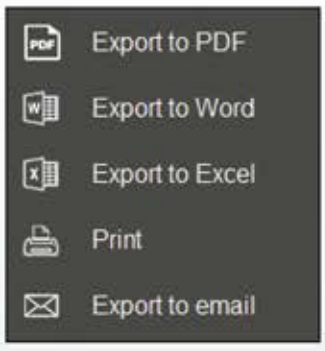
Arc Three-point vertical line Four-point angle Ellipse

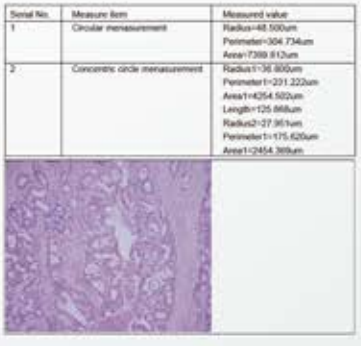
Circle radius Three-point drawing circle Concentric circle Concentric radius circle center distance drawing circle

Ring Manual count Font Scale mark

Scae bar Calibration





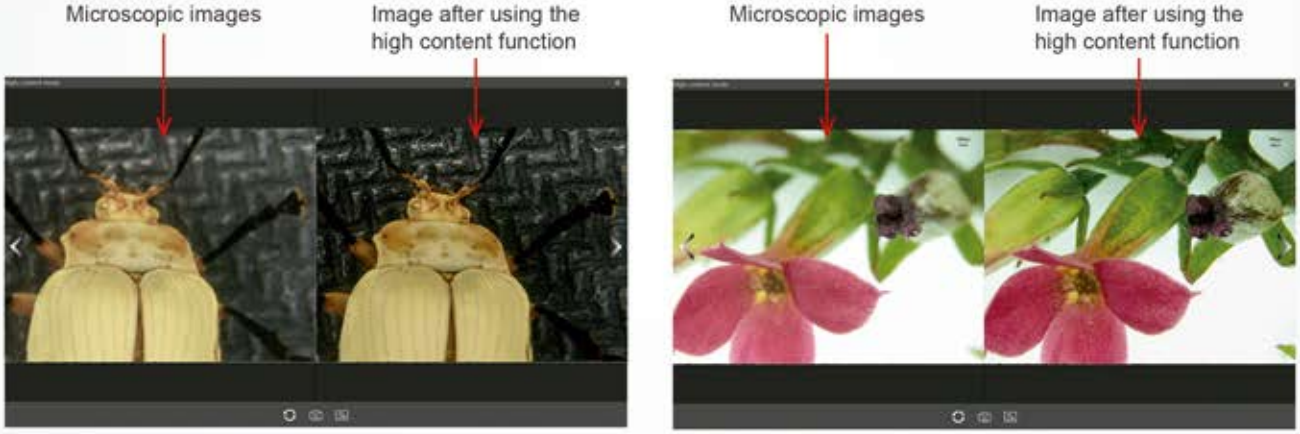


Camera properties settings

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.



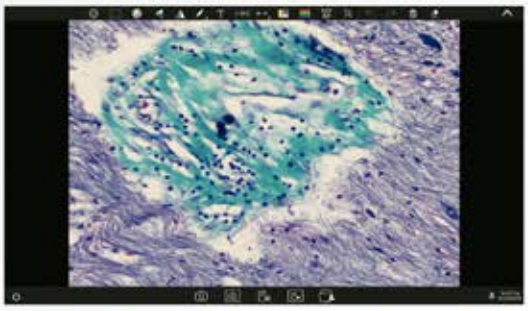
Manual counting function

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

Statistical reports

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.

Application built-in stand-alone Cameras

Camera properties settings

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Preference Settings

Users can set preferences such as language, brightness, sound, video duration, scale bar, back up files to a USB drive,restore factory settings, etc.

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Provide two QR codes for cell phone/tablet to download APP and scan to live stream image.

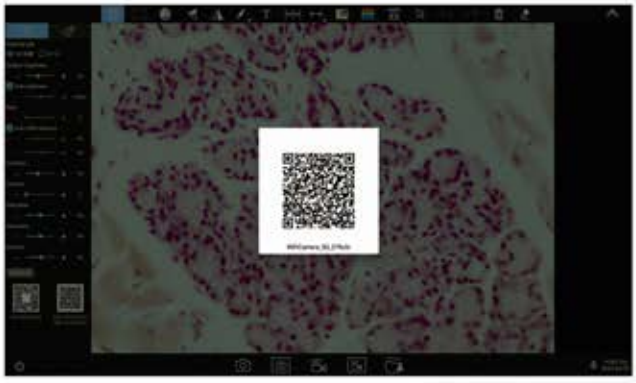
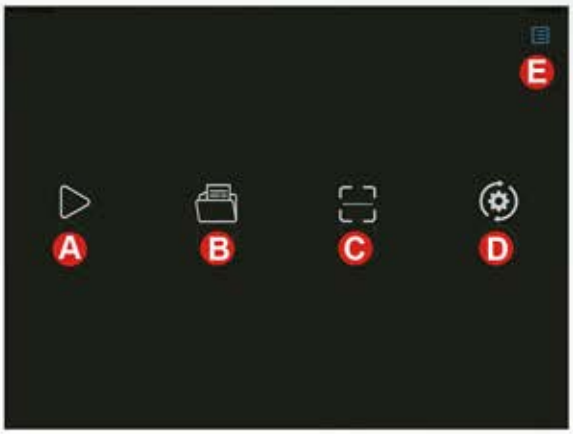


Image and docs management

Image and video gallery:
Files can be viewed, renamed, copied to a USB drive, etc.

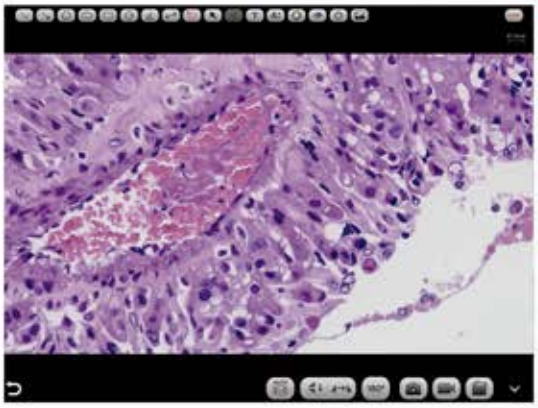
App for smart devices: PrimeCam Pro 5G WiFi

- **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.



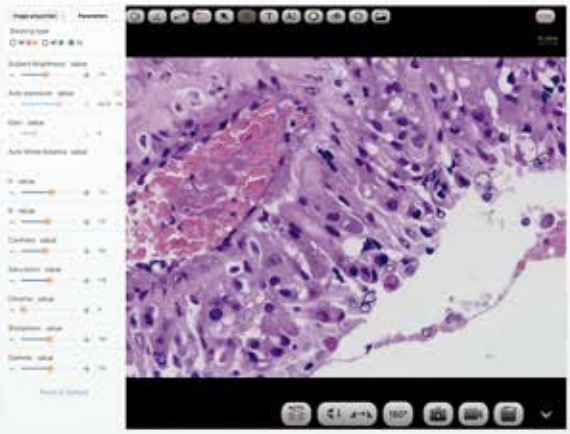
Navigation interface

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



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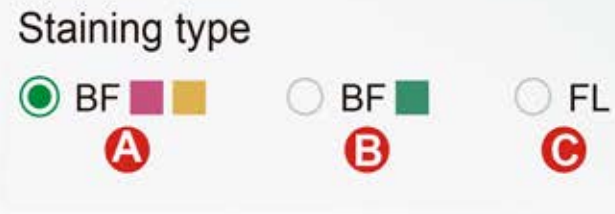

Preset mode

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

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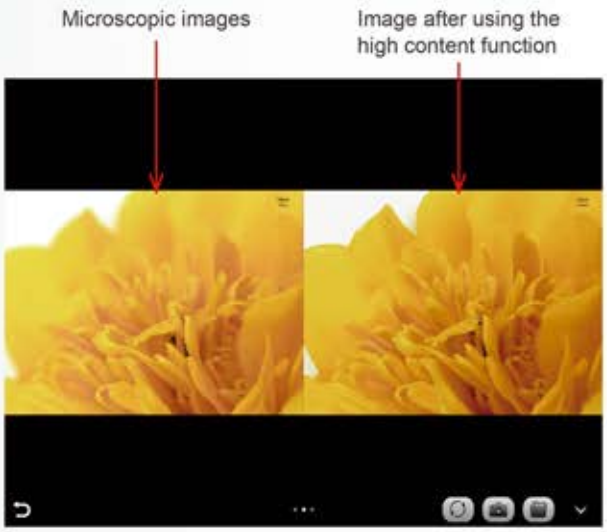

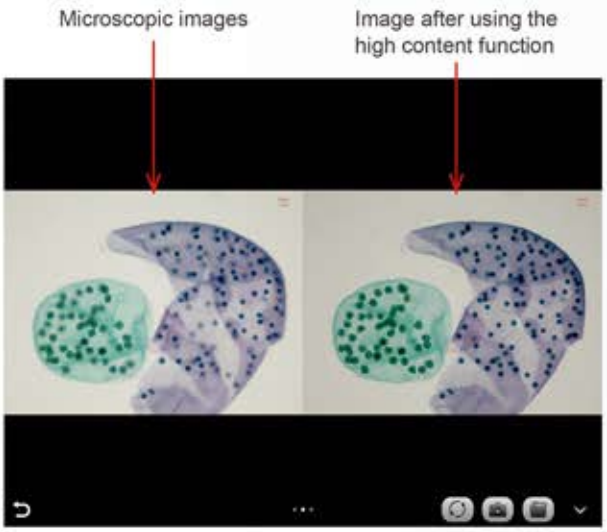

Folder Management

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

Camera intervision series available:

Connection Camera

Download PrimeCam APP

Available on the App Store

Get it on Google play

Scan QRCode camera and get the image in yor in device

Specifications

Applicable to	Nikon	Olympus	Leica	Zeiss
Models	N12 Plus	O12 Plus	L12 Plus	Z12 Plus
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			
Convertion Bit Depth	12bit			
Software and App	PrimeCam			

Certifications

1. Comply with FCC certification of The US Federal Communication Comission.
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 (Eletric 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 legistation.

GOT QUESTIONS ? CALL US 24/7!
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