Prime Life Science .corp

PrimeCam Intervision *for* TS2 With Screen

All-in-one Microscope Camera

Solution for Binocular Microscopes

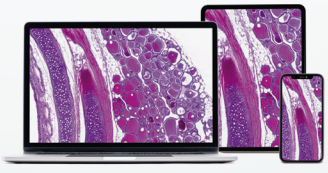
Nikon

App for IOS and Android

Available on the App Store

Get it on Google play

Multiple Devices



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

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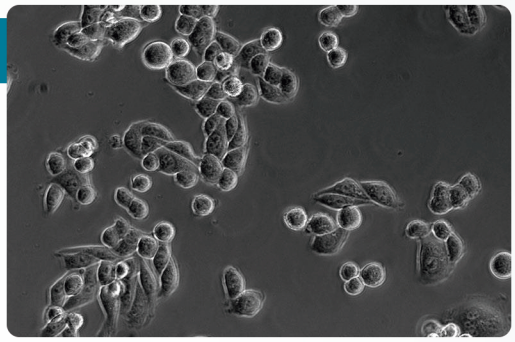
All-in-one Microscope Camera

Solution for Binocular Microscopes

Imaging Solution for Nikon Ts2 / Ts2 FL

Smart display camera
Buit-in 0.43X optical adapter
50:50 splitter prism

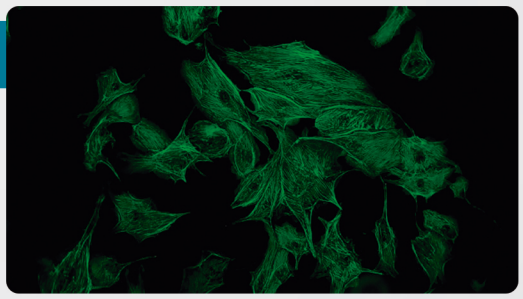
(For BF)



12 MP

Smart display camera
Buit-in 0.63X optical adapter
0:100 splitter prism

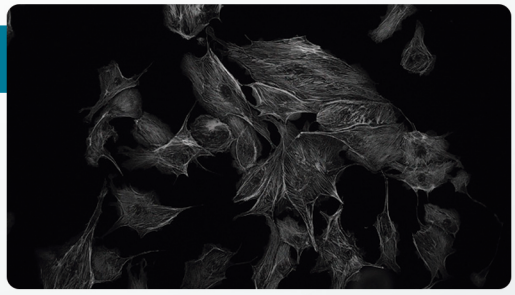
(For Color FL)



2 MP

Smart display camera
Buit-in 0.63X optical adapter
0:100 splitter prism

(For Mono FL)



2 MP

Digital Camera

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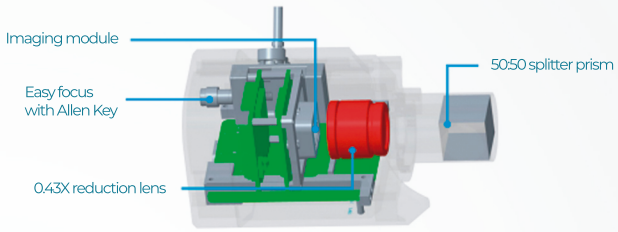
All-in-one Microscope Camera

Solution for Binocular Microscopes

Product Advantages

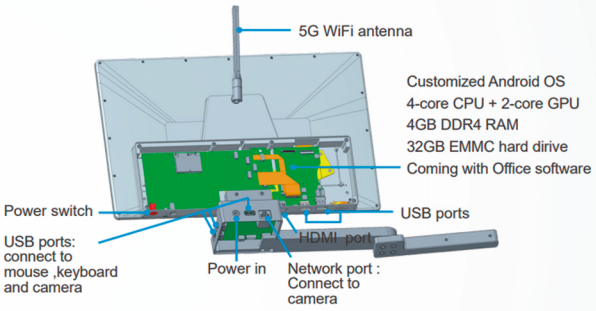
Integrated architecture, precise coupling beam splitting

50:50 splitter prism,0.43X aberration correcting tube lens,precision par-focal mechanism.



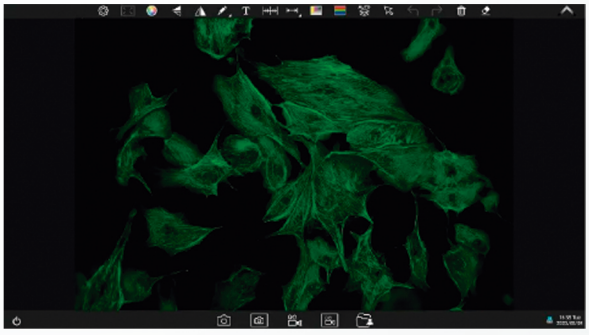
Stable, low power consumption operating system

The main control is PrimeCam, and the OS is customized Android.Instant to use with microscope imaging when power on, synchronous support HDMI output and 5G WiFi hotspot connection



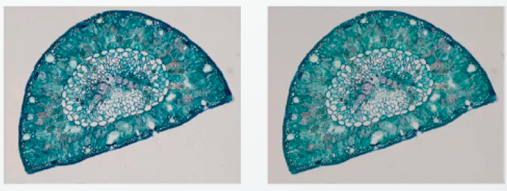
Customized built-in software

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.



H264 MJPG

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.

5G WiFi
Synchronous output

Display 15.6"

Number of pixels	1920(horizontal) x 1080 (vertical)
Pixels arrangement	RGB vertical stripe
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)

Accessories, product dimensions and weight

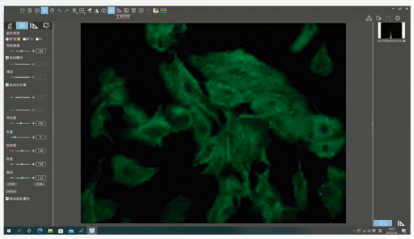
Power adapter and power cord

HDMI cable (2m)

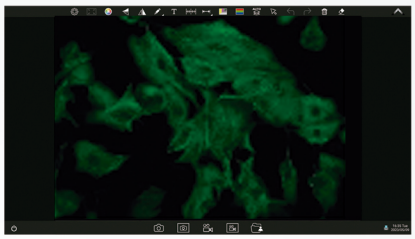
Allen Key (3mm)

Ethernet Cable

About Software and APP for Stand-alone Cameras



For Windows



Camera Bult-in Software

For IOS and Android

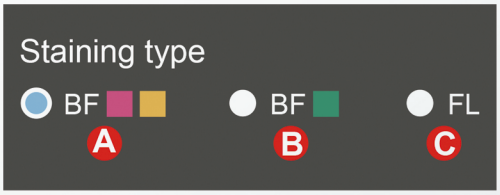
Windows Software: PrimeCam Pro

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

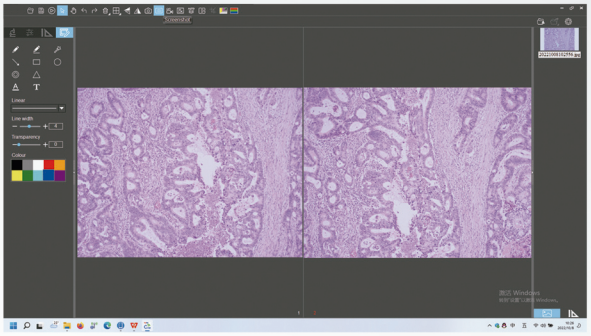
Users can choose different image modes according to the staining method of pathological sections to obtain more accurate image color.



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

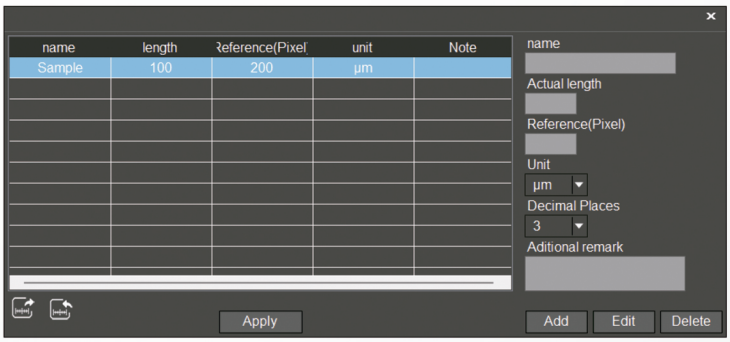
Parallel line spacing | Center distance of double parallel lines | Polyline | Polygon

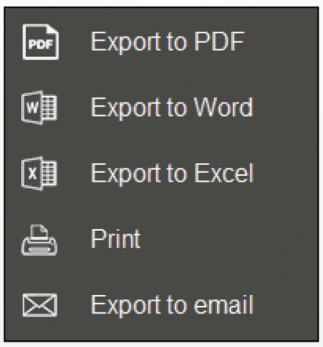
Arc | Three-point vertical line | Four-point angle | Ellipse

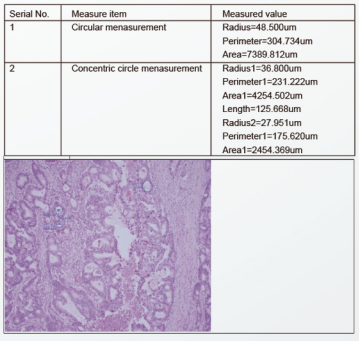
Circle radius | Three-point drawing circle | Concentric circle | Concentric radius circle center distance drawing circle

Ring | Manual count | Font | Scale mark

Scae bar | Calibration

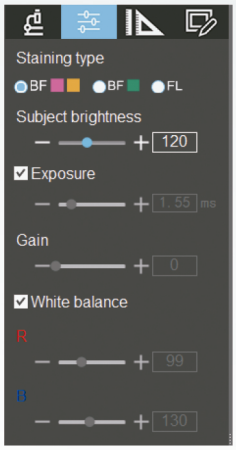


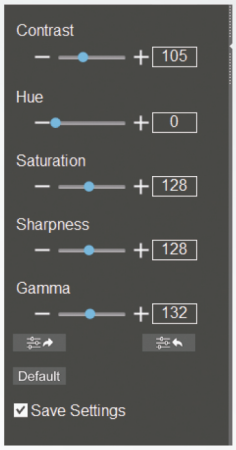




Camera properties settings

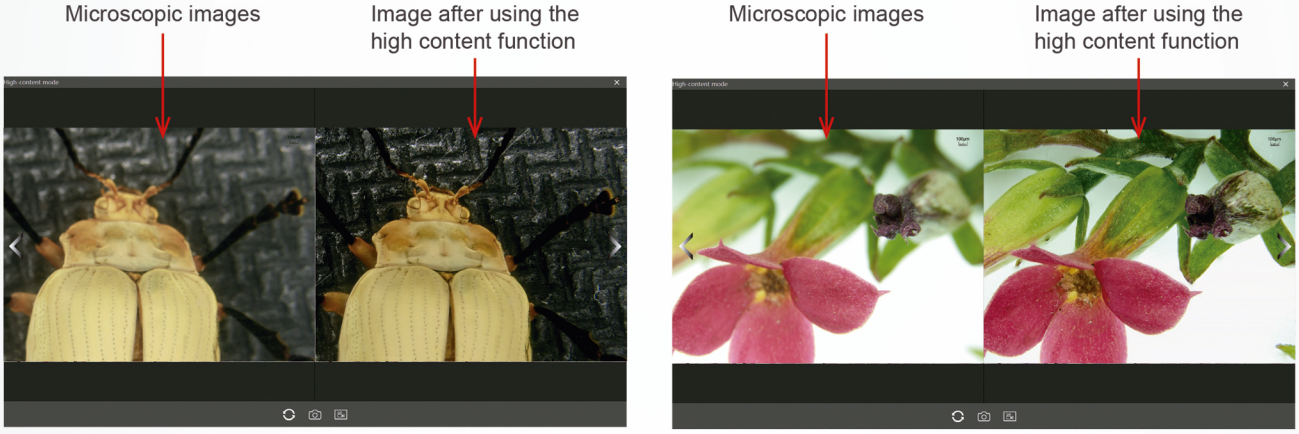
With image properties memory function, restarting the software will restore the image properties value before the software is closed. Support adjusting target brightness, exposure, gain, white balance, image RB parameters, contrast, chroma, saturation, sharpness, gamma, restore the default parameters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





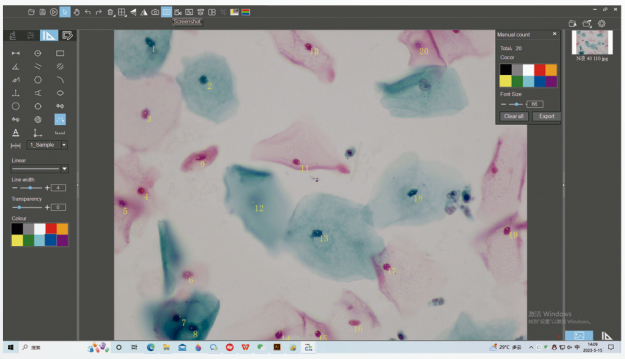
Automatic depth-of-field fusion function for high content images

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

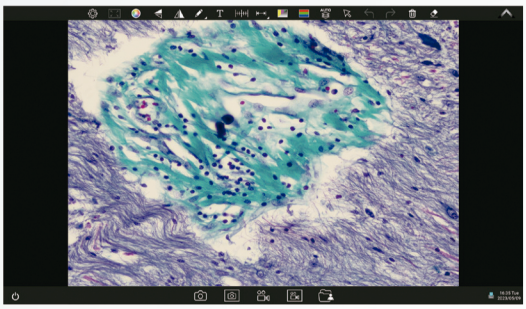


Statistical reports

Samples			
20			
Measure			
Object	X	Y	Intensity
1	346	124	50
2	888	483	63
3	302	801	93
4	274	1556	70
5	71	1693	61
6	707	2360	108
7	639	2775	51
8	751	2884	19
9	820	1238	85
10	1877	149	64
11	1786	1281	99
12	1344	1665	117
13	1970	1958	62
14	1602	2928	62
15	1961	2925	71
16	2301	2831	103
17	2628	2276	75
18	2884	1574	47
19	3804	1924	73
20	2940	149	82
Statistics			
Item	X	Y	Intensity
Min	71	124	19
Max	3804	2928	117
Range	3733	2804	98
Sum	29895	33574	1455
Mean	1494.75	1678.7	72.75
Variance	1049157	886572.6	527.4875
Std.Dev.	1024.284	941.5798	22.9671
Samples	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.

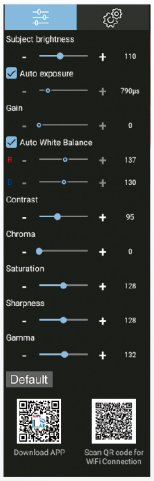
Calibrate | Measure a straight line | Measure a circle | Measure a rectangle | Measure an angle

Application built-in stand-alone Cameras

HDMI

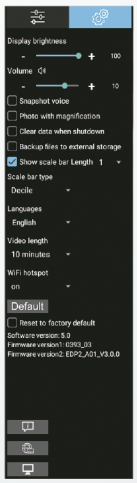
Camera properties settings

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.



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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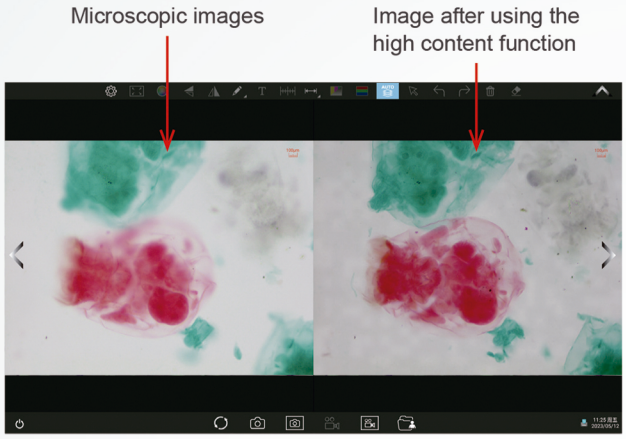
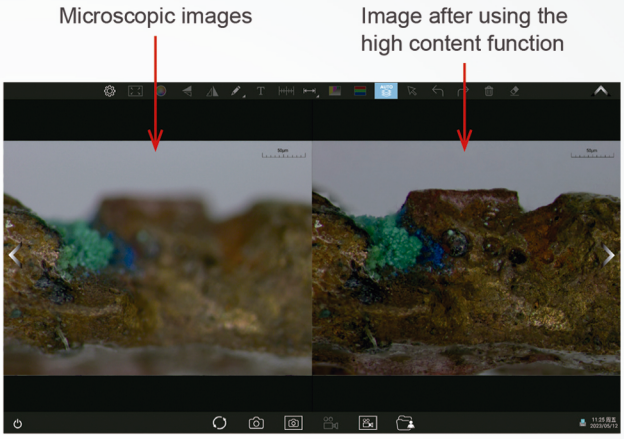




Provide two QR codes for cell phone/tablet to download APP and scan to live stream image.

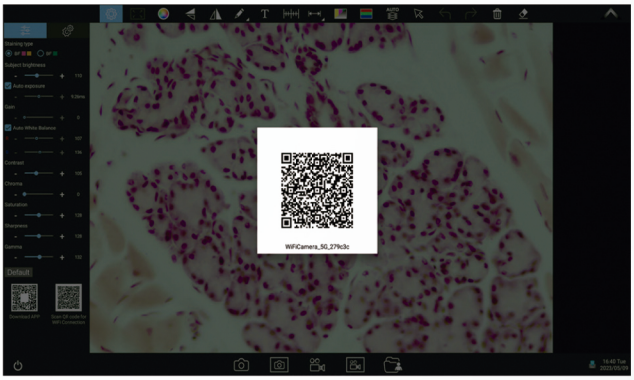
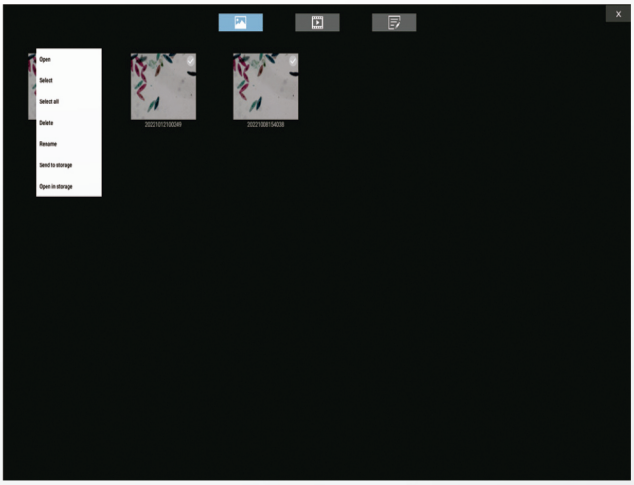


Image and docs management

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



App for smart devices: PrimeCam Pro 5G WiFi

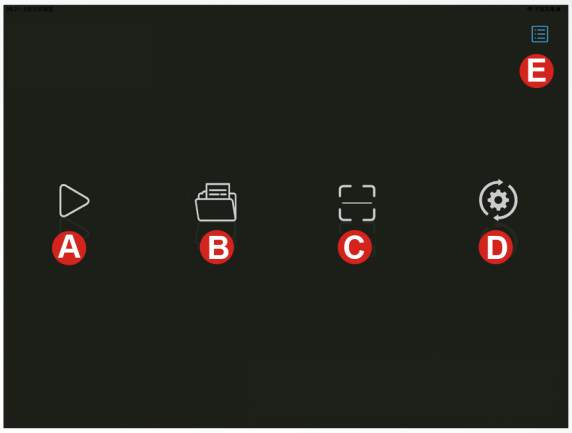
A Preview: Image preview window.

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).

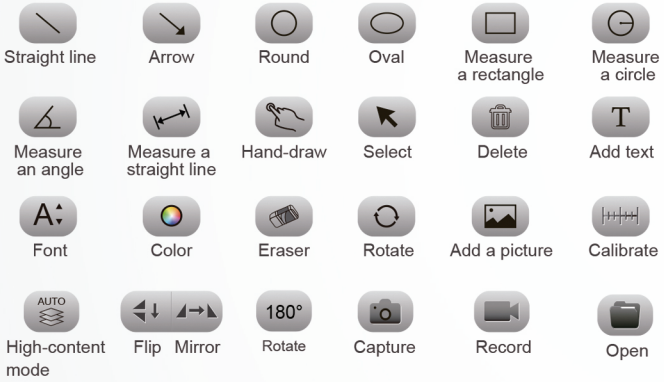
D Settings: App settings.

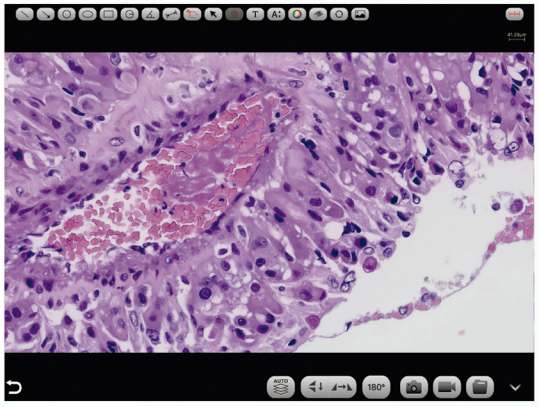
E Operation guide: show/hide.



Navigation interface

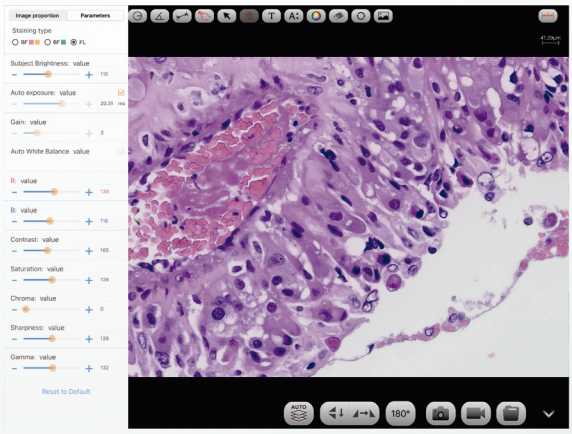
Commonly used tools: annotations, measurements, image capture





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



Staining type based on color calibration

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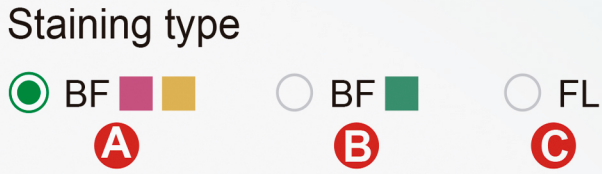

Preset mode

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

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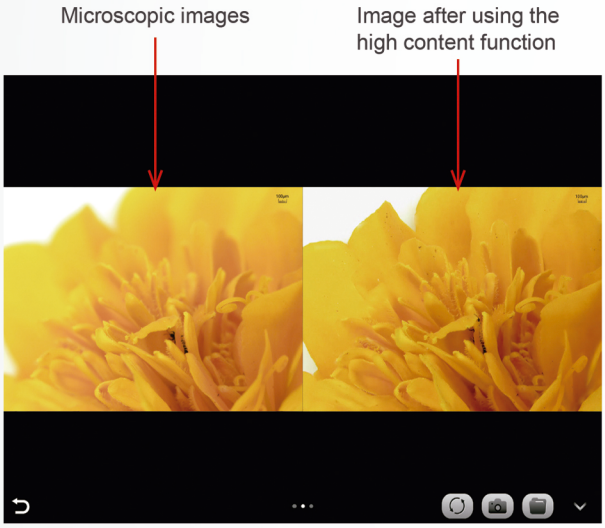
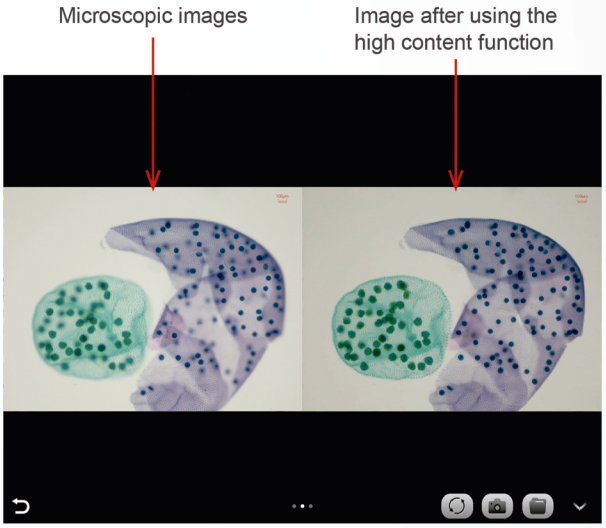
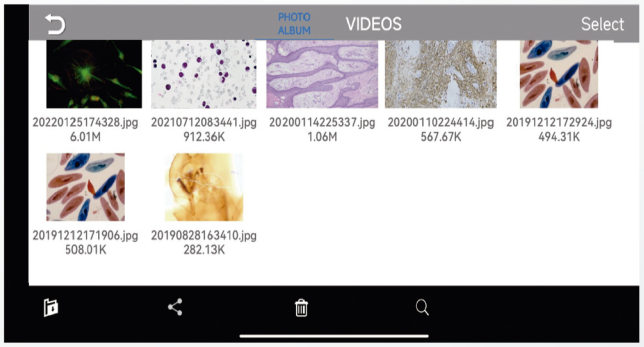




Folder Management

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		
Models	IN12 S	IN2 FL COLOR	IN2 FL MONO
Physical Resolution	12.0 MP	2.0 MP	2.3 MP
Image Sensor	SONY IMX412 CMOS	SONY IMX482 CMOS	SONY IMX174 CMOS
Exposure Mode	Rolling Shutter		
Maximum Resol.	4000x3000 (12000Pixels)	1920×1080 (2,073,600 Pixels)	1920×1200 (2,304,000Pixels)
ISO sensitivity	Equivalent to 100-12800		
Sensor Size	1/1.2"		
Pixel Size	1.55μmx1.55μm	5.8μm×5.8μm	5.86μm×5.86μm
Spectral Response	380-650nm	400-800nm	Full through-light
Exposure Capability	Real-time auto and manual adjustment		
Exposure Time	10μs×333ms		
White Balance	Real-time auto and manual RB adjustment / Real-time auto and manual adjustment		
Preview Resol.	4000x3000@30fps 3840x2160@30fps	1920×1080@60fps	1920×1200@60fps, 1920×1080@30fps(default)
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!
+ 1 (786) 305-8327
e-mail: sales@primelifescience.com

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