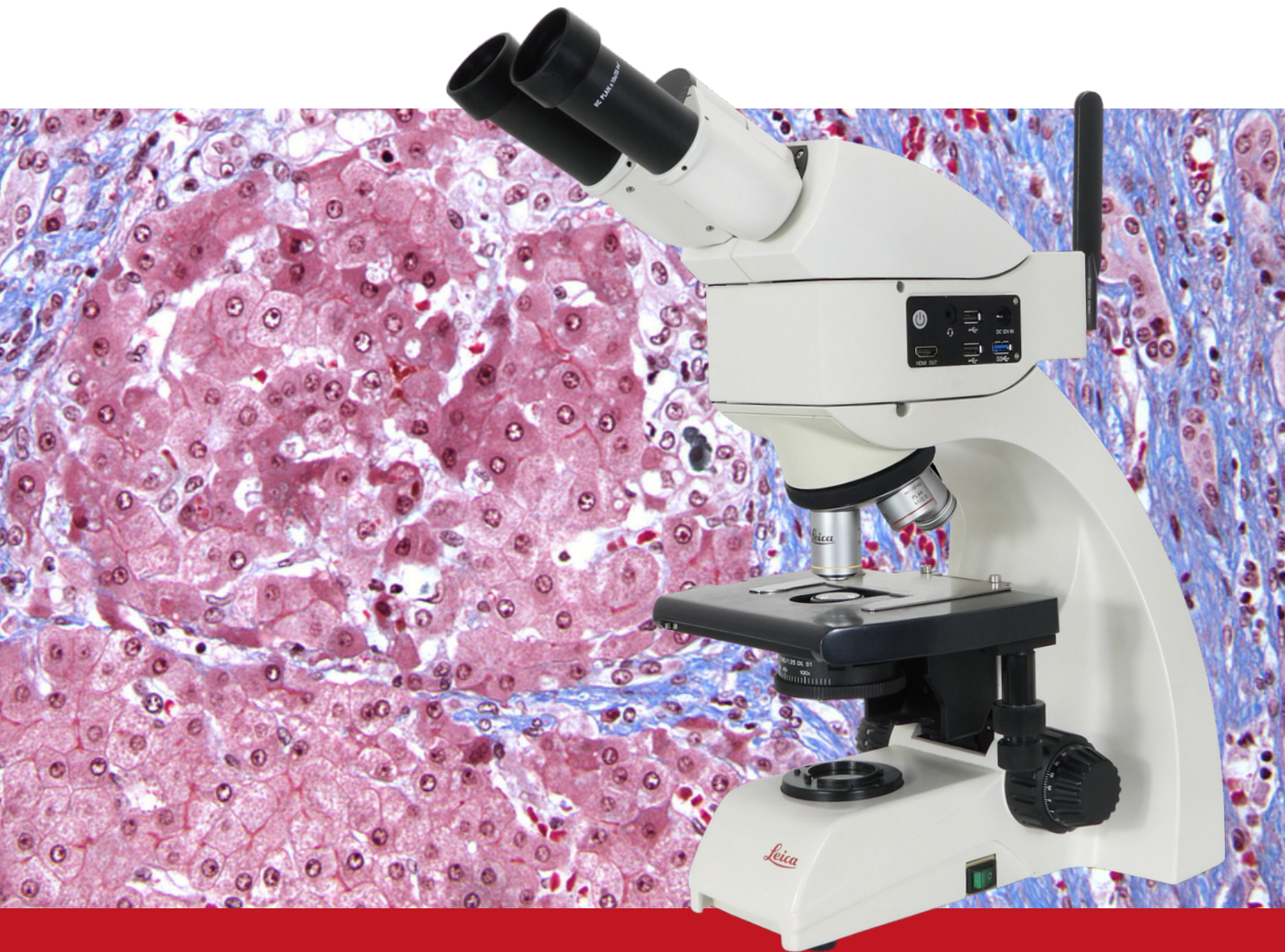


Camera Solutions



Binocular Microscope Camera Solution③

WiFi Embedded Camera

For Olympus



For Nikon



For Leica



For Zeiss



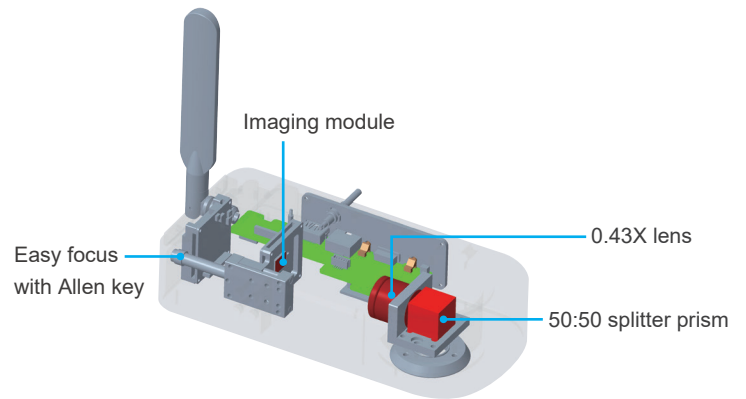
On-stop digitalize optical microscopes

The camera and large FOV dovetail mount are skillfully integrated, no more worrying about adapter matching.

Product advantages

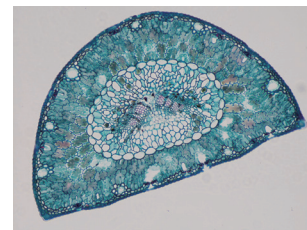
» Integrated architecture, precise coupling beam splitting

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

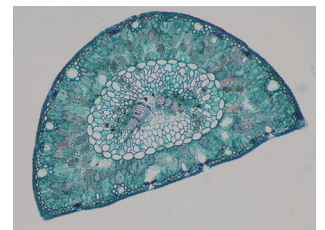


» High frame rate at full resolution, true color restoration

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



H264

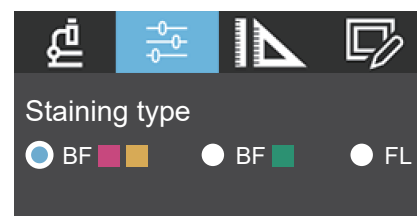


MJPG

- Different brands of microscopes correspond to exclusive modes.

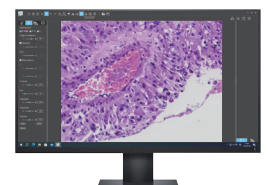
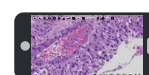
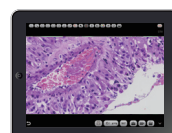
Microscope type	
● 9	Leica DM series(N PLAN)
● 11	Leica DM series(HI PLAN)
● 12	Leica DMn(HI PLAN)(BF-RD/GD)
● 13	Leica DMi1(HI PLAN)(BF-GN)
● 2	Nikon E series- Embedded camera
● 5	Nikon E series-C-mount/dovetail groove camera
● 10	Nikon TS2
● 1	OLYMPUS CX series- Embedded camera
● 4	OLYMPUS CX series-C-mount/dovetail groove camera
● 6	OLYMPUS BX series- C-mount/ dovetail groove camera (BF-RD/GD)
● 7	OLYMPUS BX series-C-mount / dovetail groove camera (BF-GN)
● 8	OLYMPUS BX series-C-mount / dovetail groove camera (FL)
● 0	Stereo Microscope-Embedded camera
● 3	Stere Microscope-C-mount/ davetail groove camera
.....	

- Different stained pathology slides correspond to exclusive modes. The theory and practice of color reproduction are truly organic.



» 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 .

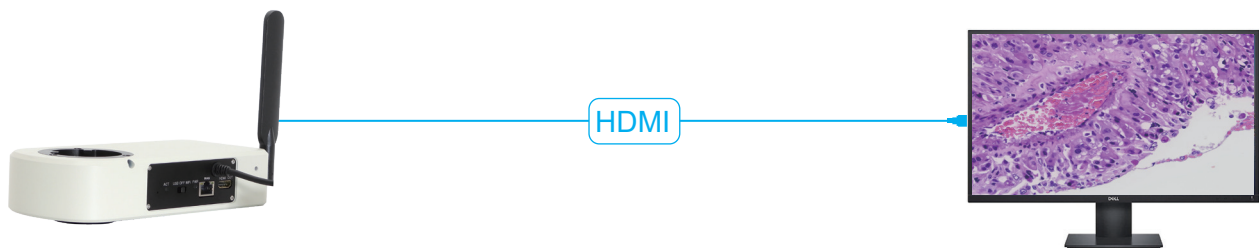
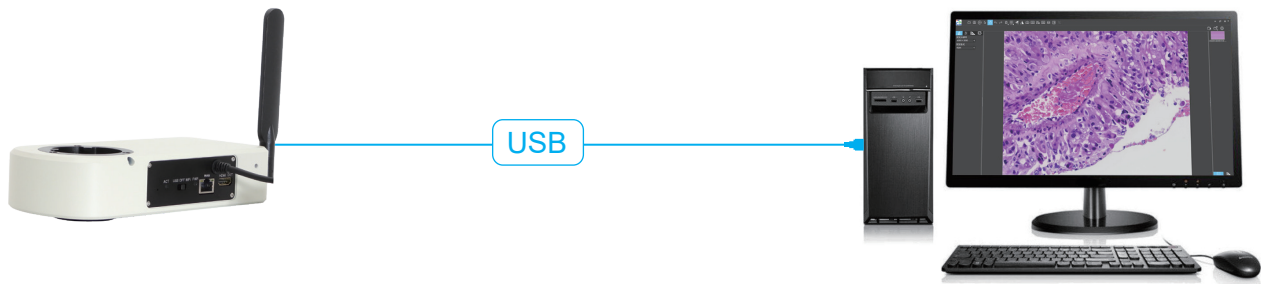


» Multiple image output methods

The output combinations are:

12.0MP camera: USB+HDMI, 5G WiFi+HDMI+ Network.(USB and WiFi cannot be output at the same time)

20.0MP camera: USB,5G WiFi+Network.(USB and WiFi cannot be output at the same time)

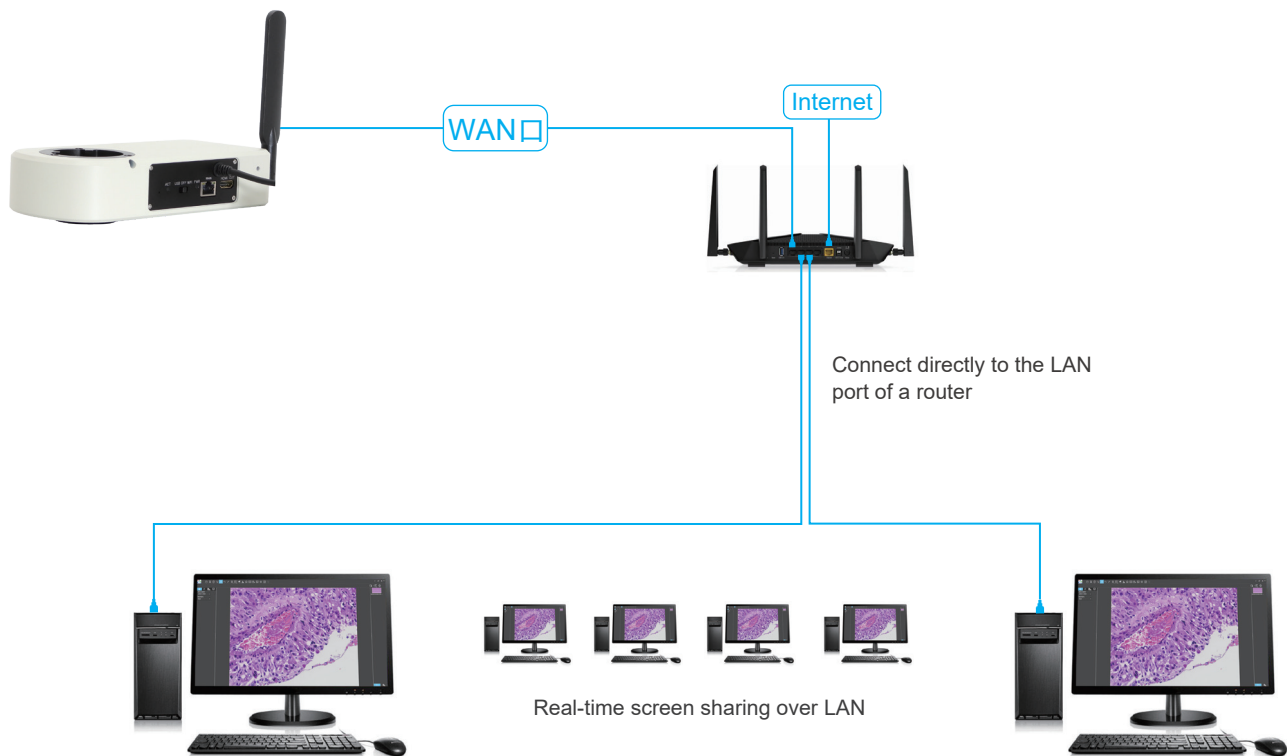


Recommend Dell 24~27" high color gamut monitor



Video set-top box (optional)
Product model: NA001

Large screen TV (no operating system required)



» Installation example

For Olympus CX23



For Nikon Ei



For Leica DM500



For Zeiss Primo Star



Specifications

Applicable to	Olympus	Nikon	Leica	Zeiss
Models	CAM20L			
Category	A0	N2	L0	Z0
Physical resolution	20.0MP			
Image sensor	SONY IMX147 CMOS			
Exposure mode	Rolling Shutter			
Maximum resolution	5184×3888 (20,155,392 Pixels)			
ISO sensitivity	Equivalent to 100-12800			
Sensor size	1/2.3"			
Pixel size	1.2μm×1.2μm			
Spectral response	380-650nm			
Exposure capability	Real-time auto and manual adjustment			

Olympus	Nikon	Leica	Zeiss
CAM1200L			
N/A			
12.0MP			
SONY IMX412 CMOS			
Rolling Shutter			
4000×3000 (12,000,000Pixels)			
Equivalent to 100-12800			
1/2.3"			
1.55μm×1.55μm			
380-650nm			
Real-time auto and manual adjustment			

Exposure time	10μs-333ms	10μs-333ms
White balance	Real-time auto and manual RB adjustment	Real-time auto and manual RB adjustment
Preview resolution	5184×3888@10fps, 3840×2160@15fps	4000×3000@30fps, 3840×2160@30fps
Power supply	DC 5V 3A	DC 5V 3A
Wireless protocol	5G WiFi IEEE802.11ac	5G WiFi IEEE802.11ac
A/D conversion bit depth	12bit	12bit
Software and App	Windows Software: Capture Pro, App for mobiles: WiFi Lab	

Note: When ordering, the model and category (if any) need to be listed at the same time. For example, when ordering a 20.0MP camera, which needs to be installed on the Olympus binocular , the corresponding order list should be : Model: CAM20L, Category: A0

Accessories, product dimensions and weight

Allen key (3mm)



HDMI cable(optional,2m)



Gigabit Ethernet cable (optional,2 m)

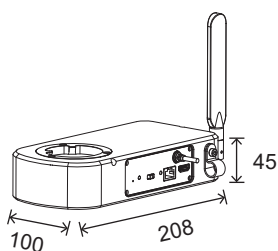


Video set-top box (optional,Product model: NA001)

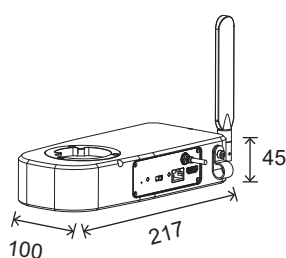


» Dimensions(Unit:mm)

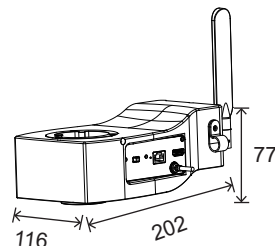
For Olympus,net weight ≈1.2kg



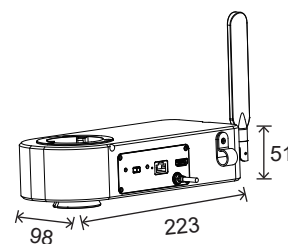
For Nikon , net weight ≈1.3kg



For Zeiss, net weight ≈1.5kg



For Leica,net weight ≈1.8kg



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 Japanese telecommunications law directive.
5. Comply with the "Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment" (RoHS) Directives in accordance with EU legislation.

Evaluation object	Certification	Certificate File Name & Report	Certificate number & corresponding report number
WF01A (5G WiFi 11ac) module Certification	US FCC Report	SZEM180100024801-5G wifi RPT-WF01A FCC Report	SZEM180100024801
		SZEM180100024802-RT-WF01A FCC Report	SZEM180100024802
		Appendix A-Photographs of EUT Constructional Details for SZEM1801000248CR-FCC	SZEM1801000248CR
	US FCC ID Certification	2AFO3WF01A_NII-WF01A FCC ID	2AFO3WF01A
	EU CE report	SZEM180100024901 EN301489 RPT-WF01A CE Report	SZEM180100024901
		SZEM180100024902 WIFI5G RPT-WF01A CE Report	SZEM180100024902
	Japanese MIC Certification	CSRT180084-WF01A Japanese MIC Certification	CSRT180084
	Japanese JATE Certification	CSTT180018-WF01A Japanese JATE Certification	CSTT180018

Patented

Patent category	Patent name	Patent number
Design patent	Electronic eyepiece	ZL 2015 3 0193227.8
	Wireless electronic eyepiece	ZL 2015 3 0193223.X
	Electronic eyepiece with spectroscopic system	ZL 2019 3 0331144.9
	Microscope (with splitting prism camera)	ZL 2019 3 0717439.X
Utility model patents	Microscope with camera	ZL 2019 3 0717442.1
	WiFi microscope eyepiece	ZL 2015 2 0296469.4
	Electronic eyepiece	ZL 2015 2 0426409.X
	Wireless electronic eyepiece	ZL 2015 2 0426313.3
	Microscope with displayer	ZL 2019 2 0928962.1
	Electronic eyepiece with splitting prism system	ZL 2019 2 1022863.3

Software copyright

Category	Name of software	Platform	License number
Computer software copyright registration certificate	Capture Pro	Windows	2021SR1287730
	WiFi Lab AO	Android	2021SR1304520
	WiFi Lab	Android	2019SR0117768
		iOS	2019SR0028558



High-Tech Enterprise certificate number:
GR202044010599



ISO9001 Verification No:00220Q26395R2S

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