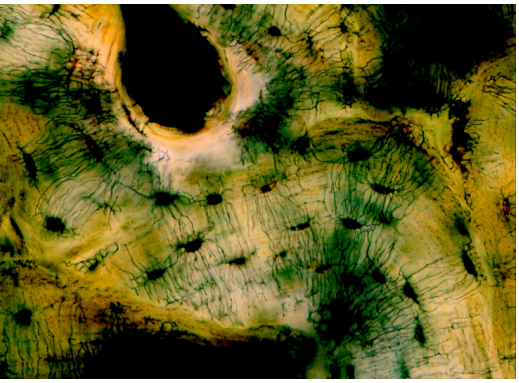
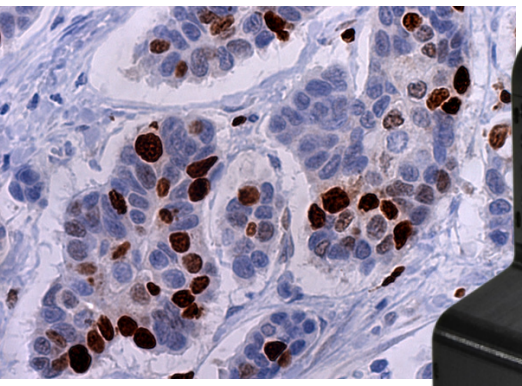
LANOPTIK
Technologies

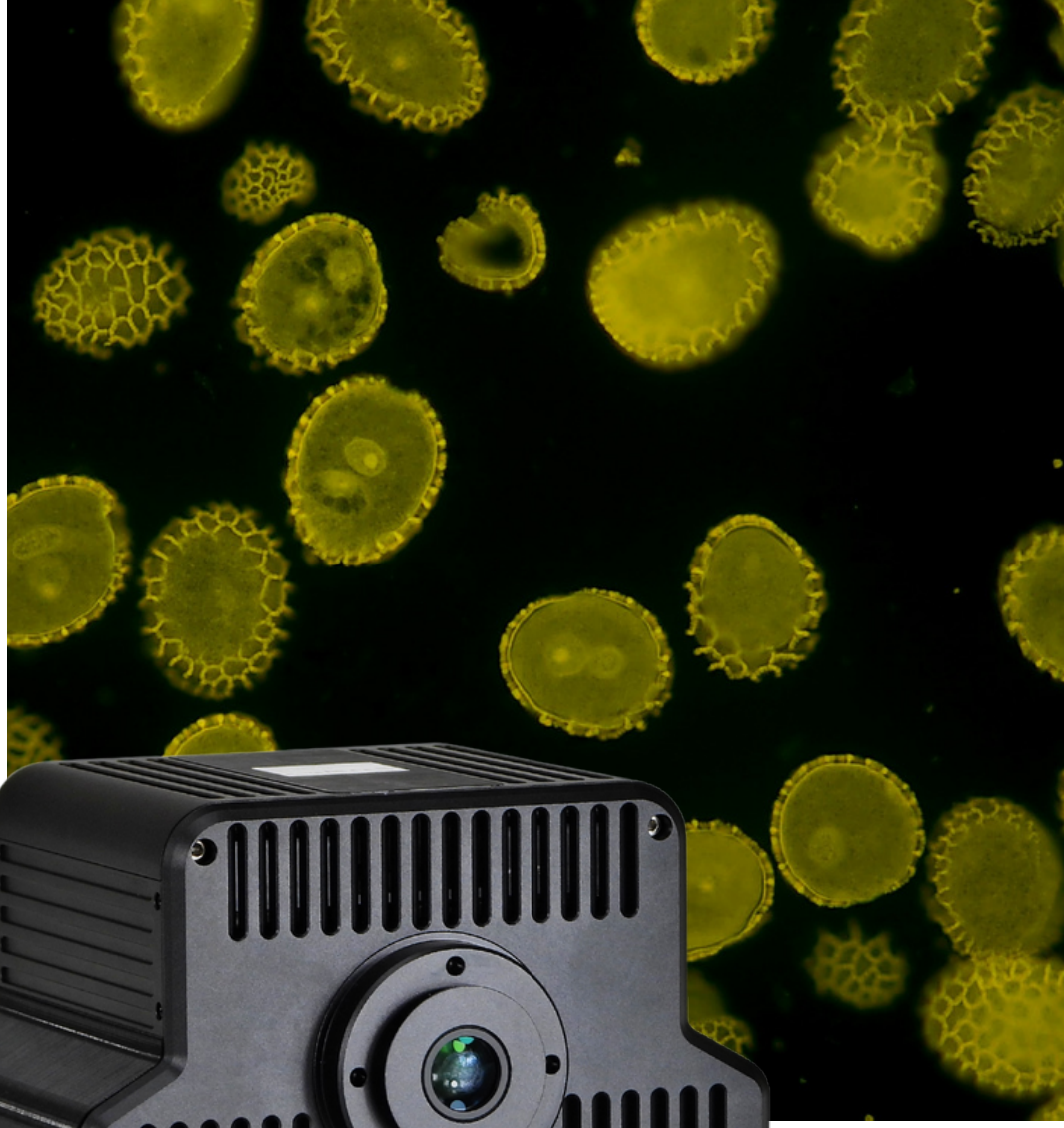
WiFi Interactive Workstation

MW1200 / MW2000

www.lanoptik.com







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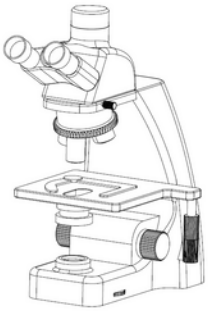
5G WIFI
INTERACTIVE WORKSTATION
FOR MICROSCOPE CLASSROOM



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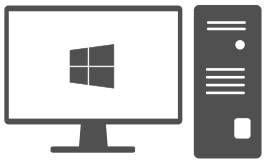


1 Trinocular Microscope

2 Interactive Workstation

3 Teacher Computer

Enhance the WiFi Microscope Interactive System

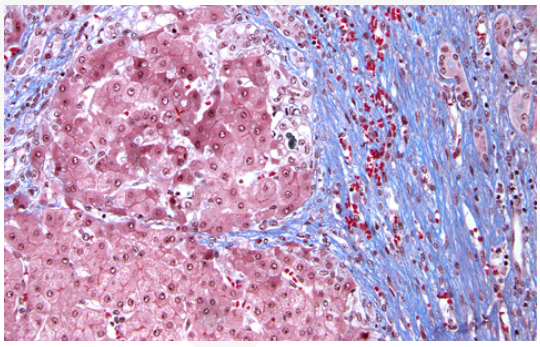
The WiFi Interactive Workstation is installed on a trinocular microscope, and together with the teacher computer constitutes the tutor-station of the WiFi Microscope Interactive System. Compared with the original solution using wireless matrix VM3500, it not only saves space and installation time, but also has more stable performance and stronger signal coverage.

Excellent 5G WiFi Signal Goverage

The Interactive Workstation is like a built-in minimized smart router with omnidirectional high gain PCB array antenna. Reduce the interference between WiFi signals. Expand wall penetration efficiency and eliminate blind angles. The covering radius of WiFi signal is 15 meters, suitable for use in a space below 300 square meters, such as conference hall, laboratory, and classroom.

Cutting-edge Image Codec Technology & Advanced Color-calibration Algorithm

Advanced microscopic image algorithm and the latest H264 video stream encoding and decoding technology makes accurate color reproduction, low bit rate, low noise, high image quality, high speed preview at full resolution. Colors are calibrated according to the characteristics of objectives and light sources for different brands and types of microscopes, resulting in several standard sets of parameters. Users can choose different modes according to the staining method of pathological sections to obtain accurate image color.

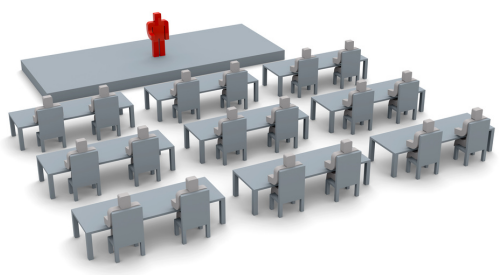


Support Upto 60 Stations Networking

Thanks to the robust and specially designed 5G WiFi module, real-time microscopic images can be steamed to up to 60 student station at the same time, and the interactive signals are processed smoothly. All stations are networked in the same system, and images and files can be transferred to each other, achieve seamless connection, instant sharing, and full-time interaction.

Less Parts, More Efficiency

WiFi Interactive Workstation is more than a camera. Based on the innovation of microscopic imaging technology, it integrates a high-performance camera and a robust WiFi signal processing matrix. It is specially designed for the tutor-station and acts as a communication hub in the system.



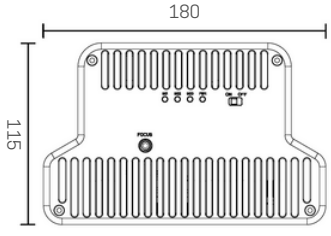
Specifications

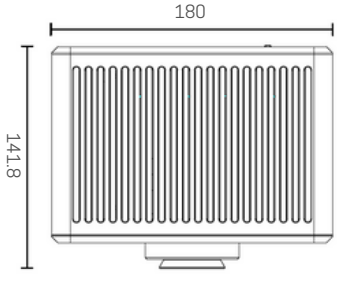
Model	MW1200	MW2000
Resolution	12 MP (4000x3000 pixels)	12 MP (5183 x 3888 pixels)
Sensor Type	1/2.3" Sony CMOS	1/2.3" Sony CMOS
Pixel Size	1.55μm X 1.55μm	1.2μm X 1.2μm
Frame Rate	30 fps (60 fps on HDMI)	15 fps @ 3840 x 2160
Shutter	Electronic rolling	Electronic rolling
Spectral Response	308 ~ 650 nm	308 ~ 650 nm
Exposure	Realtime automatic, Manual	Realtime automatic, Manual
White Balance	Realtime automatic, Manual	Realtime automatic, Manual
Max. Terminals	60 pcs	60 pcs
Optical Interface	C mount (no lens) or Dovetail mount (0.43x lens)	
Data Interface	RJ45 Port 1: connecting to computer RJ45 Port 2: connecting to the Internet *HDMI Port: connecting to HD/4K monitor, Auto-adaptive up to 3840x2160	
WiFi Protocol	5G WiFi, IEEE 802.11ac	
WiFi Frequency	5.180 ~ 5.825 GHz	
Signal Rate	2600 Mbs	
Wireless Security	WPA / WPA2, WPA-PSK / WPA-PSK2 encrytion	
WAN Type	Dynamic IP	
Network Protocol	Supports IPv4 and IPv6	
Image Format	Snapshot: JPG, BMP, PNG, TIFF Record: MP4 file	
Power Input	DC 12V, 5A	
PC Software	Pixit WiFi EDU	
Weight	2.1 KG	
Dimesions	180x142x115 mm	

*HDMI output is unavailable for 20MP cameras.

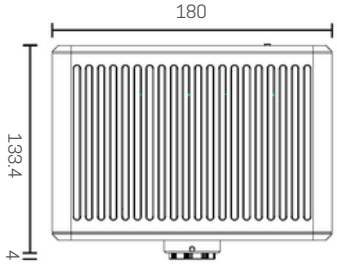
Dimensions

Unit: mm





Dovetail mount



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Specifications are subject to change without any obligation on the part of the manufacturer.

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