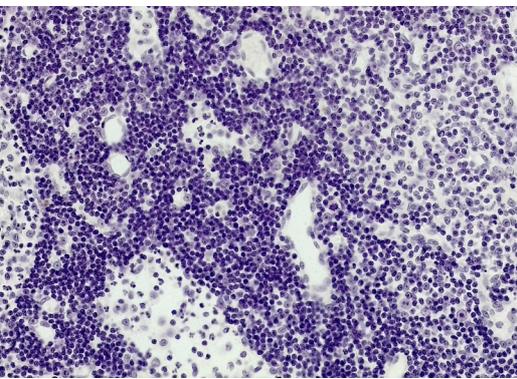
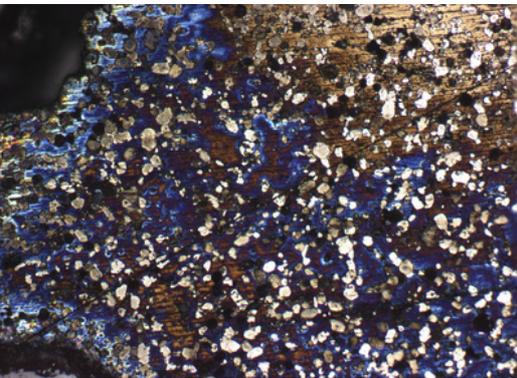
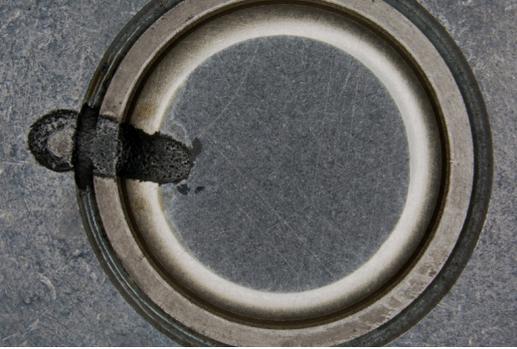


HW Series





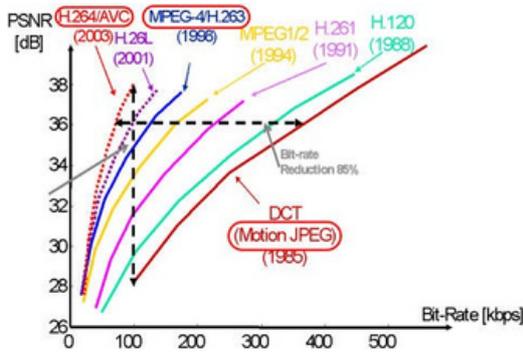
SMART **MICROSCOPE CAMERA** 12MP / 20MP

HW series smart microscope cameras are equipped with high-quality Sony CMOS image sensors, specially designed to match top brand trinocular microscopes. Standard C-mount design allows to install on all types of trinocular microscope, and dovetail mount design are perfectly to match Olympus, Nikon, Leica, Zeiss microscopes. The camera comes with built-in operating system as well as MS office software and pre-installed image measurement software, so a dedicated computer for the camera is not necessary.

The ability to work with the microscope independently without relying on a computer and to transmit images smoothly via 5G WiFi makes this camera a "convenient choice". It is widely used in various seminars, laboratories, workshops, training, and field inspections where real-time images need to be displayed. Just scan the QR code on the camera to allow up to 13 smart devices to get live images from the camera.

ADVANCED IMAGING & STREAMING TECHNOLOGY

Advanced video streaming imaging technology based on H.264 and unique color balance algorithm ensure that the camera presents excellent image quality and smooth video at high resolutions.



SLIDE MODES OPTIONS BASED ON COLOR CALIBRATION

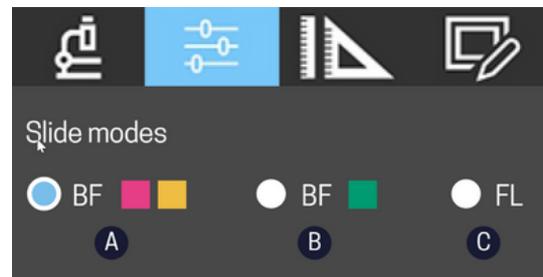
Perseverance in pursuit of better image quality.

Working modes:

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

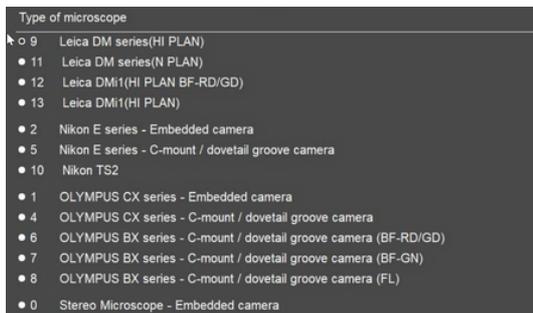
Item	H264	MPEG4	MJPEG
Image quality	Excellent	Average	Poor
Technical complexity	High	Average	Low
Network transmission speed	Fast	Average	Slow
Cost	High	Average	Low

*Source: <http://www.yaba.com.tw/cctv/h264mp4/h264mp4.htm>



ONE CAMERA, MULTIPLE FIRMWARE

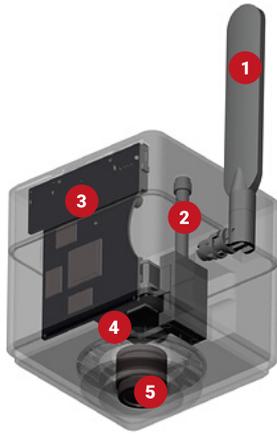
Multiple sets of image firmware have been built into the camera, allowing engineer to call the best matching firmware from the software according to user's microscope brand, type (biological, industrial, polarizing microscopes, etc.) and specimen with one key, the best image quality can be obtained without manual operation by the user.



NO WORRY ABOUT THE SENSOR SIZE

*Although the sensor used in HW series cameras is not that large, the built-in 0.43X reduction lens perfectly matches its format and guarantees a large field of view, without field curvature and distortion. Save your money on the C mount adapter.





- 1. 5G WiFi Output
- 2. Easy focus with Allen Key
- 3. Built-in Operating System with MS Office Software
- 4. High performance CMOS sensor
- 5. 0.43X relay lens



- 1. USB 3.0 port
- 2. USB 2.0 port
- 3. HDMI port
- 4. Easy focus with Allen Key

WiFi FOR SMART DEVICES HDMI FOR LARGE DISPLAY

The WiFi function supports up to 13 mobile devices to simultaneously preview live images. Users only need to install a special app on their mobile phones or tablets and scan the QR code on the camera to automatically connect.



5G WiFi
synchronous live-stream to

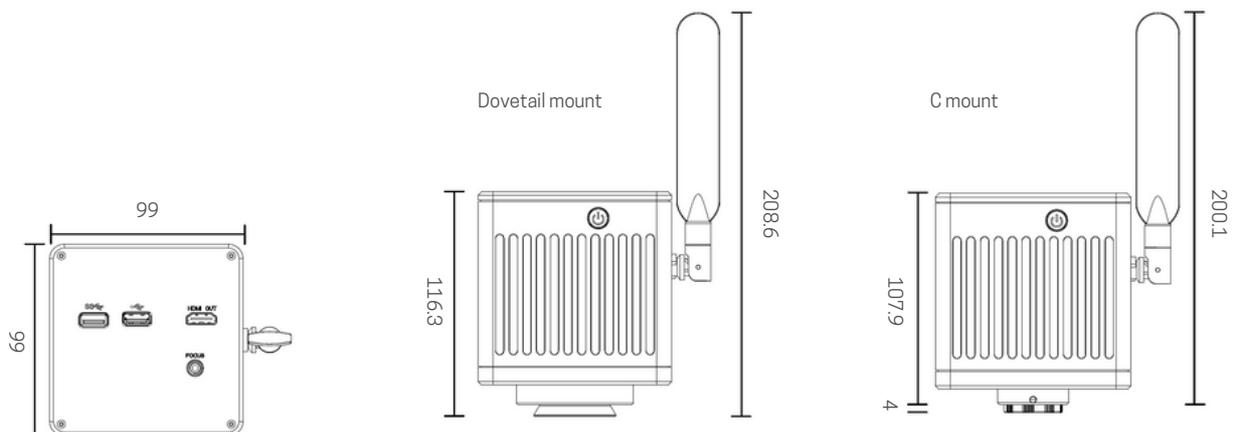


Specifications

Sensor Type	Sony CMOS IMX412	Sony CMOS IMX147
CMOS Array	4000 x 3000 (12MP)	5183 x 3888 (20MP)
Pixel Size	1.55µm x 1.55µm	1.2µm x 1.2µm
Sensor Dimensions	11.1mm x 6.2mm (12.86mm diagonal)	8.74mm x 7.67mm (7.82mm diagonal)
Spectral Response	380-650nm	380-650nm
Shutter Type	Electronic rolling	Electronic rolling
Frame Rate	30 fps at full resolution	15 fps at 3840 x 2160
Exposure Time	10us ~ 330ms	10us ~ 330ms
Digital Interface	5G WiFi, HDMI	5G WiFi, HDMI
Shutter	Electronic rolling	Electronic rolling
White Balance	Realtime automatic, Manual	Realtime automatic, Manual
Optical Interface	C-mount or Dovetail mount (0.43X)	C-mount or Dovetail mount (0.43X)
WiFi Protocol	IEEE 802.11ac	IEEE 802.11ac
Image Format	JPG, BMP, PNG, TIFF	JPG, BMP, PNG, TIFF
Power Input	DC 12V, 5A	DC 12V, 5A
Software	KoPa WiFi Lab, Pixit Pro (Windows)	KoPa WiFi Lab, Pixit Pro (Windows)
Operating Systems	Deeply customized Android system	Deeply customized Android system
Stock Conditions	Temperature: -20 °C ... +70 °C	Temperature: -20 °C ... +70 °C
Weight	1.3kg	1.3kg

Dimensions

Unit: mm



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



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