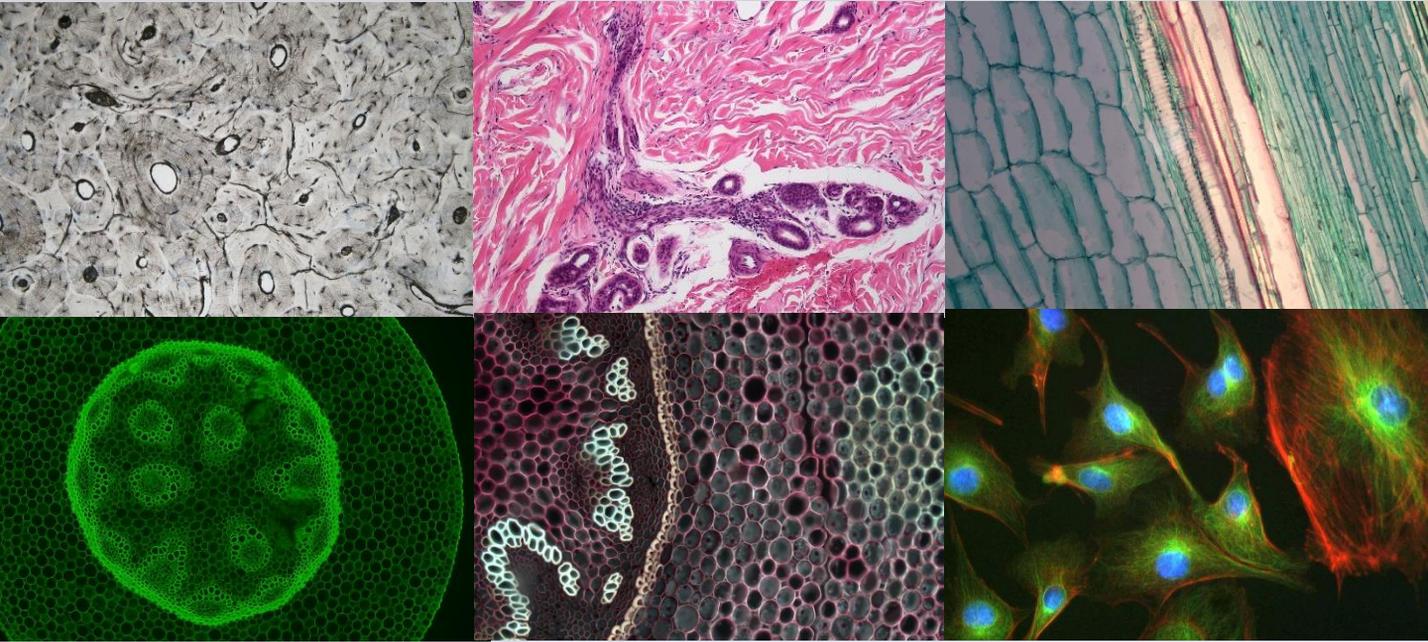




Pentagon Series

HDMI 1080P 60fps
Outstanding Resolution and Frame Rate



Pentagon Technology Limited.



Pentagon Series

Best Choice

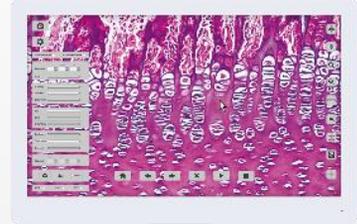
Pentagon III



Image Stitching

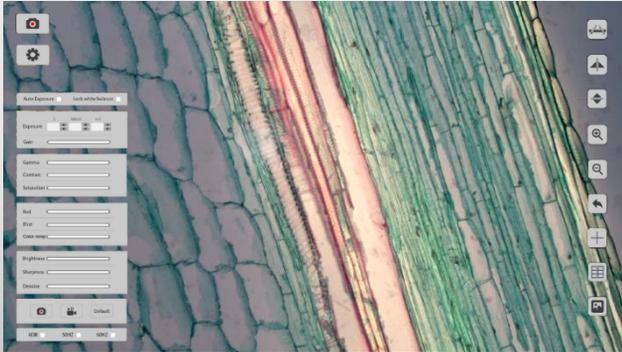
Real-time Measurement

Independent Screen , Mouse Operation



HDMI screen

- Pentagon III can be directly connected to the HDMI screen for operation.
- It has the simplest operation interface and the most complete measurement function.
- Integration with the microscope saves the largest space in the lab.



- ✓ **Cytopathy**
- ✓ **Biopsy**
- ✓ **Animal and plant slices**
- ✓ **Cells migration**

Complete measurement and calibration functions on the screen

- Allow users to select and perform measurements directly on the screen according to the measurement range.
- At the same time, it also has a scale function. Users can perform more accurate measurements at different magnifications.



Line

Freehand Line

Rectangle

Circle



Polygon

Point-line Distance

Concentric Circles

Bicircle

Angle

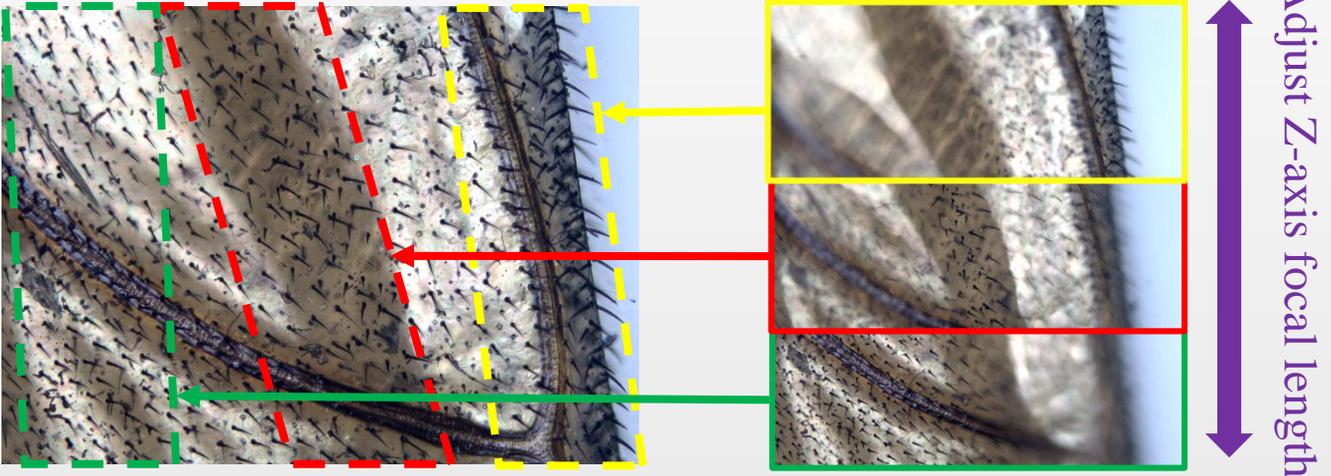


PTImage Analysis Software

Intelligent Software Solution

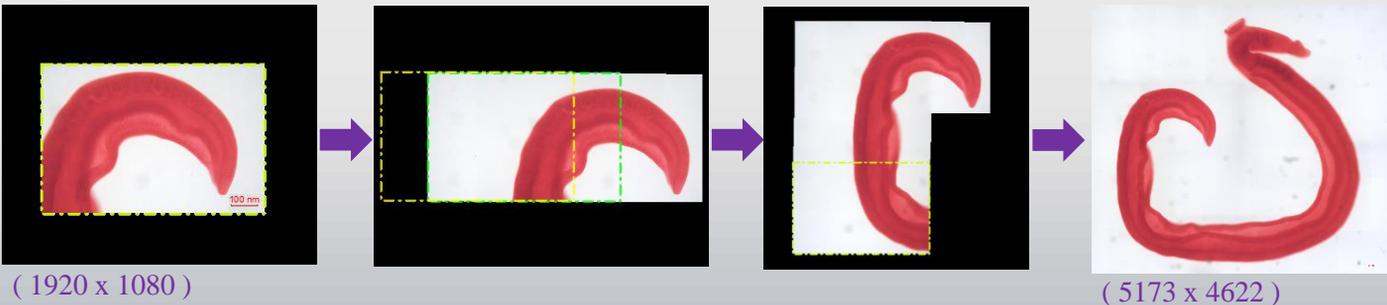
Real-time depth-of-field overlay

Sample: Bee Wings



Dynamic image stitching

Sample: Schistosoma



Other functions

Cell counter

Users can classify and mark the number of different types of cells, and support up to 7 types of cells. Conducive to subsequent data statistics.

Export to Report

PTImage provides the function of exporting measurement data information and generating reports. The content can choose to write the project name, sample name, operator and remarks, and other information required for the experiment record.

Specifications

Pentagon series	Pentagon-III	Pentagon-IV	Pentagon-FC	Pentagon-FM
Color/Mono	Color	Color	Color	Mono
Sensor	IMX236	IMX183C	-	-
Sensor Size	1/2.8"	1"	1"	1"
Resolution	1920 x 1080	3840 x 2160	5472 x 3648	5472 x 3648
Data Interface	HDMI/USB	HDMI/USB /Ethernet	USB 3.0	USB 3.0
Frame Rate (full resolution)	HDMI: 30fps @1920x1080 USB2.0: 30fps @1920x1080	HDMI: 30fps @3840x2160 USB 3.0: 25fps @3840x2160 Ethernet: 30fps @3840x2160	USB 3.0 (8bit): 14fps @5472x3648 53fps @2736x1824 67fps @1824x1216	USB 3.0 (8bit): 16fps @5472x3648 53fps @2736x1824 67fps @1824x1216 USB 3.0 (16bit): 8fps @5472x3648 27fps @2736x1824 67fps @1824x1216
Output Port	USB/SD/HDMI	USB/SD/HDMI	USB 3.0	USB 3.0
Exposure Time	2ms~10sec	2ms~10sec	3us~1h	3us~1h
Cooling	-	-	Forced air	Forced air
Bining	-	-	2x2/3x3/4x4	2x2/3x3/4x4/8x8
Readout Noise	-	-	<1e-	0.6e-
Operating System	Windows 7 or above, MAC	Windows 7 or above	Windows 7 or above, MAC	Windows 7 or above, MAC
Software	PTImage			
Optical Port	Standard C-Mount			
Shutter Mode	Rolling Shutter			
Feature	Full functional Measurement In HDMI Interface Automatic Stitching Extended Z of Focus	Full functional Measurement In HDMI Interface Automatic Stitching Extended Z of Focus + 4K resolution	Highly Denoise 20 Megapixel Automatic Stitching Extended Z of Focus	Highly Denoise 20 Megapixel Automatic Stitching Extended Z of Focus High Speed Mode



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