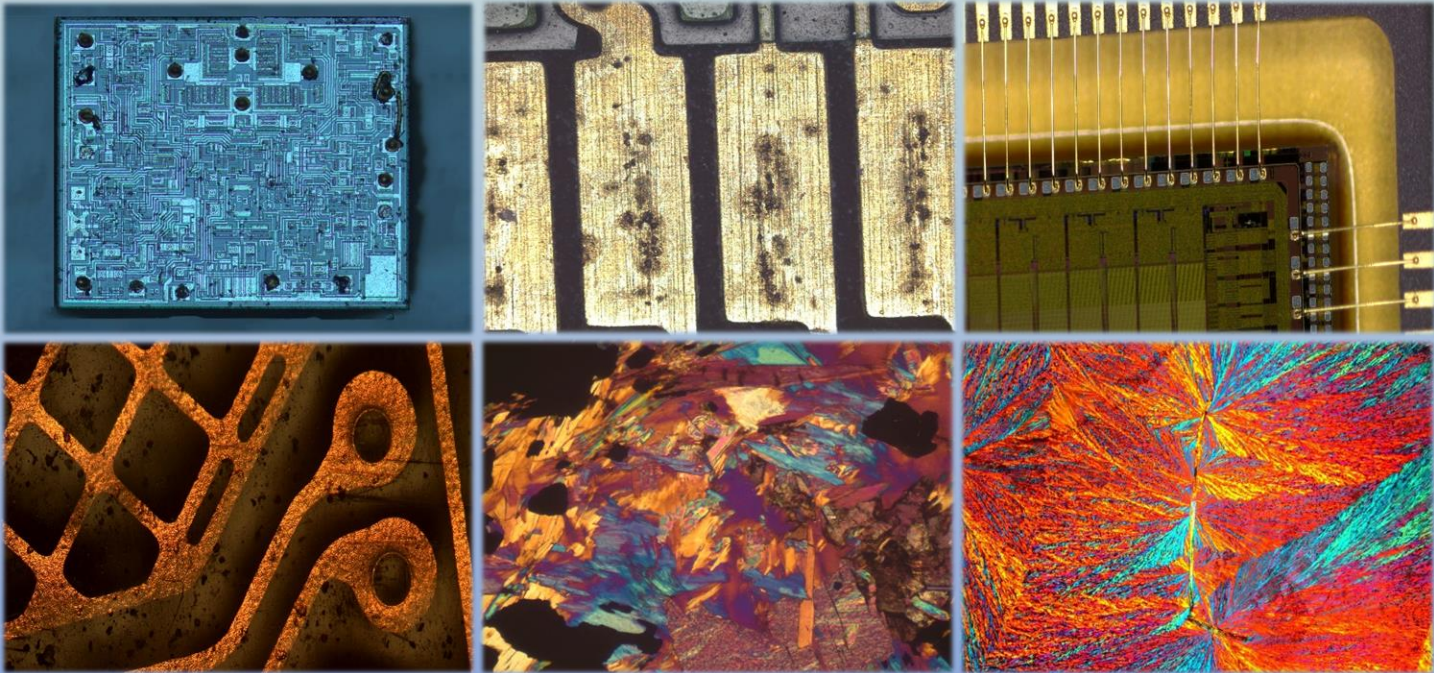




Pentagon Series

Outstanding Resolution and Frame Rate
HDMI 1080P 60fps





Pentagon Series

Pentagon III

Best Choice for your budget



Image Stitching

Real-time Measurement

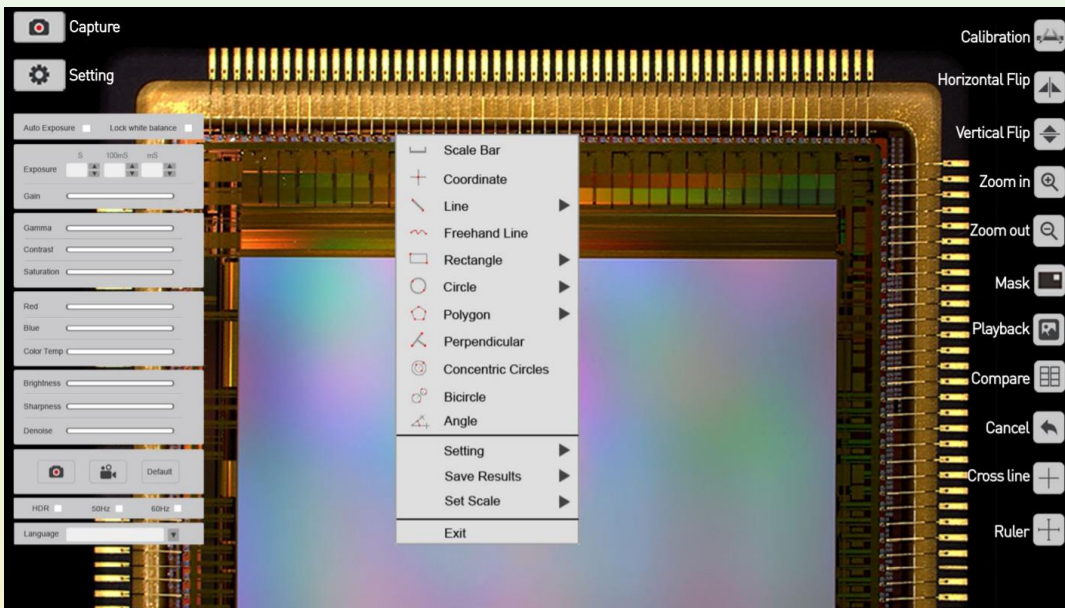
Independent Screen , Mouse Operation



Bright Field Color CCD

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.



- ✓ Circuit board
- ✓ Metallographic analysis
- ✓ Industrial measurement

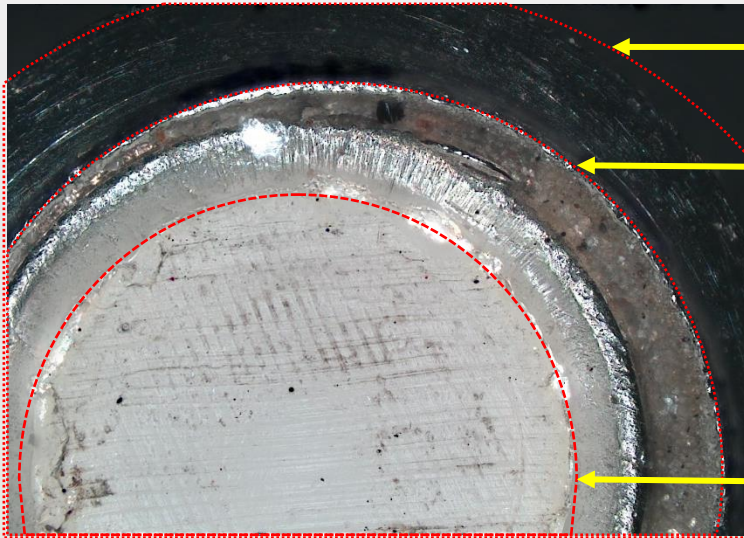


PTImage Analysis Software

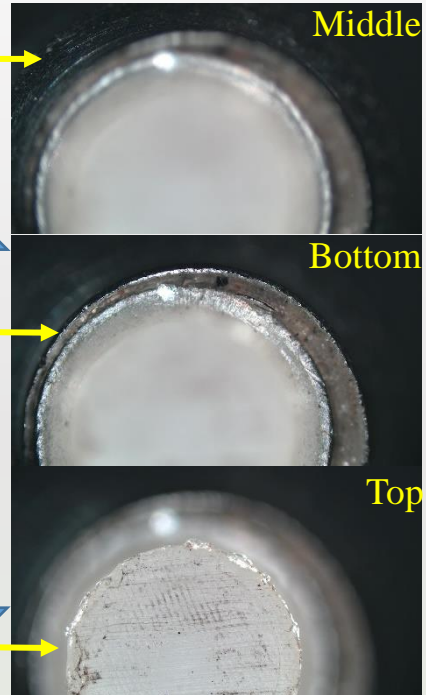
Intelligent Software Solution

Real-time depth-of-field overlay

Overlay of different focal planes



(Sample: Screw , 1920 * 1080)

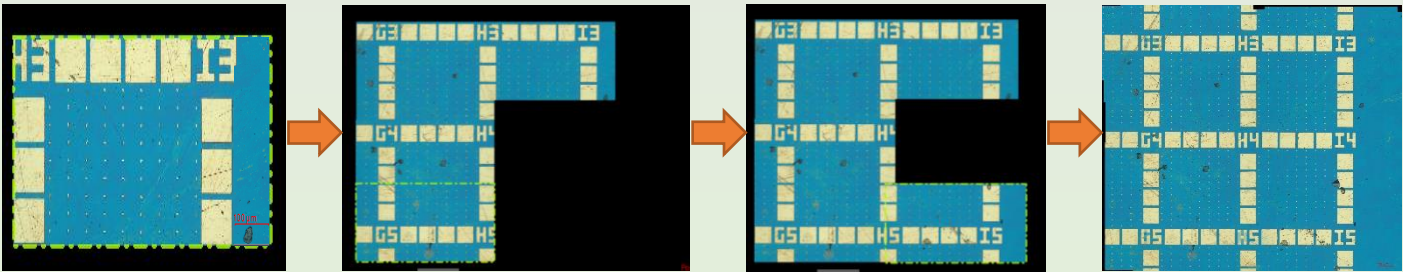


Adjust Z-axis focal length

Dynamic image stitching

Present experimental results at one time

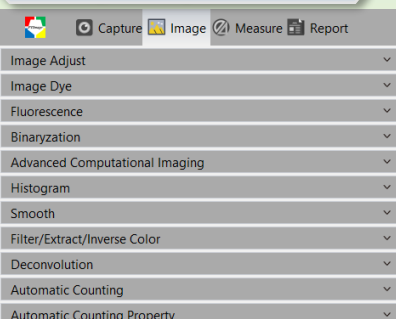
(Sample: PCB)



(1920 * 1080)

(4332 * 3844)

Image adjustment



Scale bar

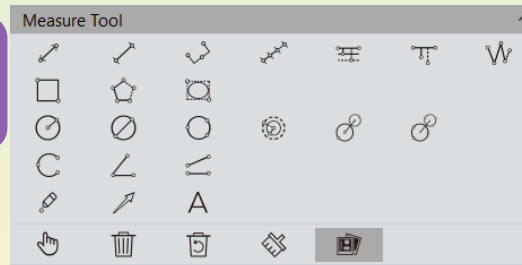
User save

Count

Export report

Measurement tools

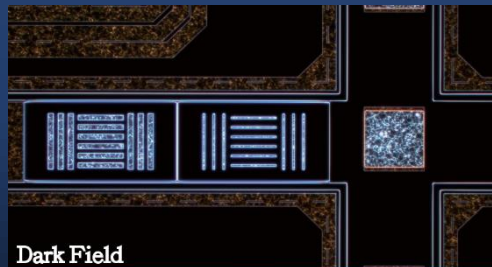
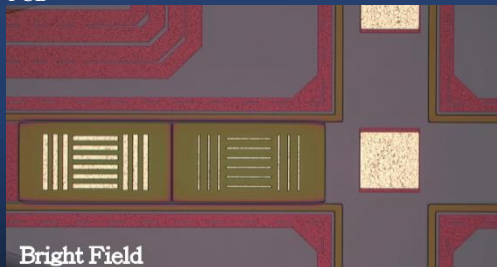
(support Live measure)



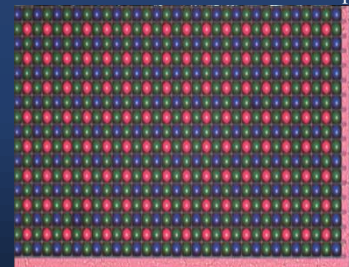
Specifications

Pentagon series	Pentagon-III	Pentagon-IV	Pentagon-FC
Color/Mono	Color	Color	Color
Sensor	IMX236	IMX183C	-
Sensor Size	1/2.8"	1"	1"
Dynamic Resolution	1920 x 1080	3840 x 2160	5472 x 3648
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: 14fps @5472x3648 53fps @2736x1824 67fps @1824x1216
Exposure Time	2 ms ~ 10 sec	2 ms ~ 10 sec	3 us ~ 1 h
Data Interface	USB2.0 / SD / HDMI	USB2.0 / USB3.0 LAN / HDMI	USB 3.0
Cooling	-	-	Forced air
Bining	-	-	2x2 / 3x3 / 4x4
Readout Noise (typ.)	-	-	<1e-
Operating system	Windows 7 or above, Mac	Windows 7 or above	Windows 7 or above, MAC
Software	PTImage		
Optical Port	Standard C-Mount		
Shutter Mode	Rolling Shutter		
Feature	Full functional Measurement In HDMI Interface	Full functional Measurement In HDMI Interface + 4K resolution	Highly Denoise 20 Megapixel

PCB



Color CCD chip



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