USB20DPX

Excellent imaging performance

Sony professional CMOS sensor

· 6 megapixel sensor-IMX183   · Sensor Size-1"

· Pixel Size-2.4x2.4µm   · Resolution -5472 x 3648
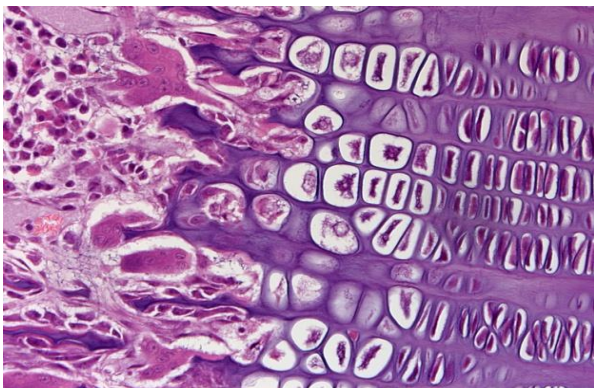
ISP color-interpolation algorithm

Effectively improve the color deviation of the sensor
Perfectly restore the true color of the sample

USB3.0 Stable high-speed transmission

Simple and convenient while ensuring a stable rate
At full resolution, 15 fps rapid imaging can be achieved

Supports 4 Cameras Simultaneously in SDK

Automatic matching data bandwidth algorithm Achieve
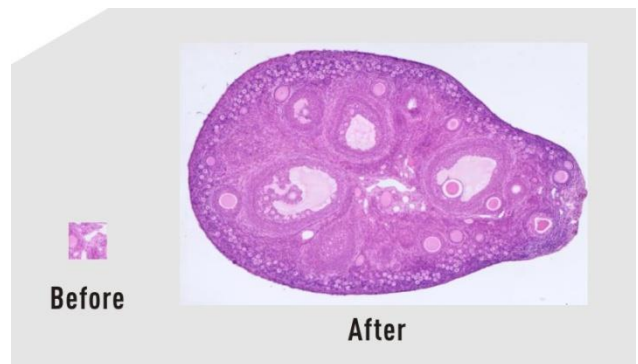the state of 4 cameras running synchronously in SDK

Revolutionary imaging software

From the user's point of view, redefining the image acquisition- editing - measurement - report output workflow process.
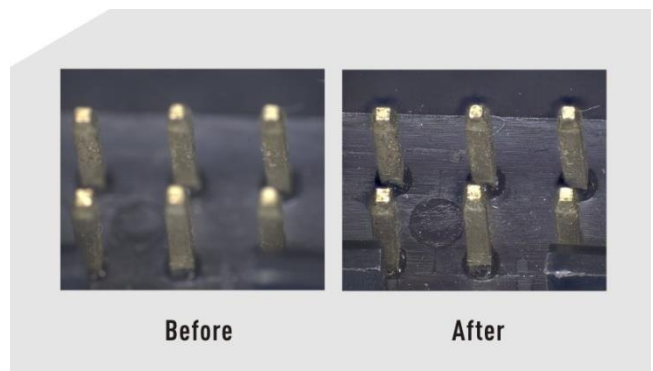
Real-time image stitching

Moving the stage to get full field view in a few seconds

Before

After

Real-time depth-of-field fusion

Turning the focus knob to capture different depth of field points

Before   After

USB20DPX specification

Product Model	USB20DPX
Sensor Model	IMX183CQJ-J
Sensor Type	CMOS
Sensor Size	1"
Color/Mono	Color
Pixel Size	2.4 x 2.4(μm)
Resolution	5472 (H) x 3648(V)
Frame	15fps(5472x3648) 53fps(2736x1824 2x2bin) 67fps(1824x1216 3x3bin)
Shutter Mode	Rolling
Exposure Time	0.13ms-15s
Automatic Set	Exposure, Color Scale, White Balance
Manually Set	Exposure, Gain, Noise Reduction, Gamma, Flat Field Correction
Color Temperature	2000-15000K
ADC Depth	12Bit
PC Software	Capture V2.0
Picture Format	JPG / PNG / TIFF
Operating System	Windows is supported and Linux/Mac is under development
PC Configuration	CPU: Intel Core i5 or better(Quad or more Core), RAM: 8G or more, OS: Windows 7/8/10 64bit
Multiple Cameras	Supports 4 Cameras Simultaneously in SDK
Data Interface	USB 3.0
Optical Interface	Standard C Mount
Camera Size	68 x 68 x 46 mm
Camera Weight	330 g

USB20DPX Design

· Meticulous CNC arc processing

· Environmental protection spraying

· Stainless steel C ring with no debris

Capture V2.0 software feature function

Intelligent 12-bit ISP color reproduction

Real-time depth of field fusion (Option)

Real-time image stitching (Option)

Real-time fluorescence image synthesis and editing

HDR image synthesis

Micro-imaging-based intelligent automatic exposure

Smart measurement workflow

Implements multiple iterations of workflow execution

Supports single shot, delayed camera

Automatic video and delay video generation

Output format selection

User parameter group save and load

Dynamic \ static measurement, layered measurement

Supports measuring gauges, layers, precision, naming, style

Implements drawing: points, lines, rectangles, polygons, circles, arcs, angles

Data export as TXT or Excel

Report generation and printing

DeltaPix
- *Discover the Details*