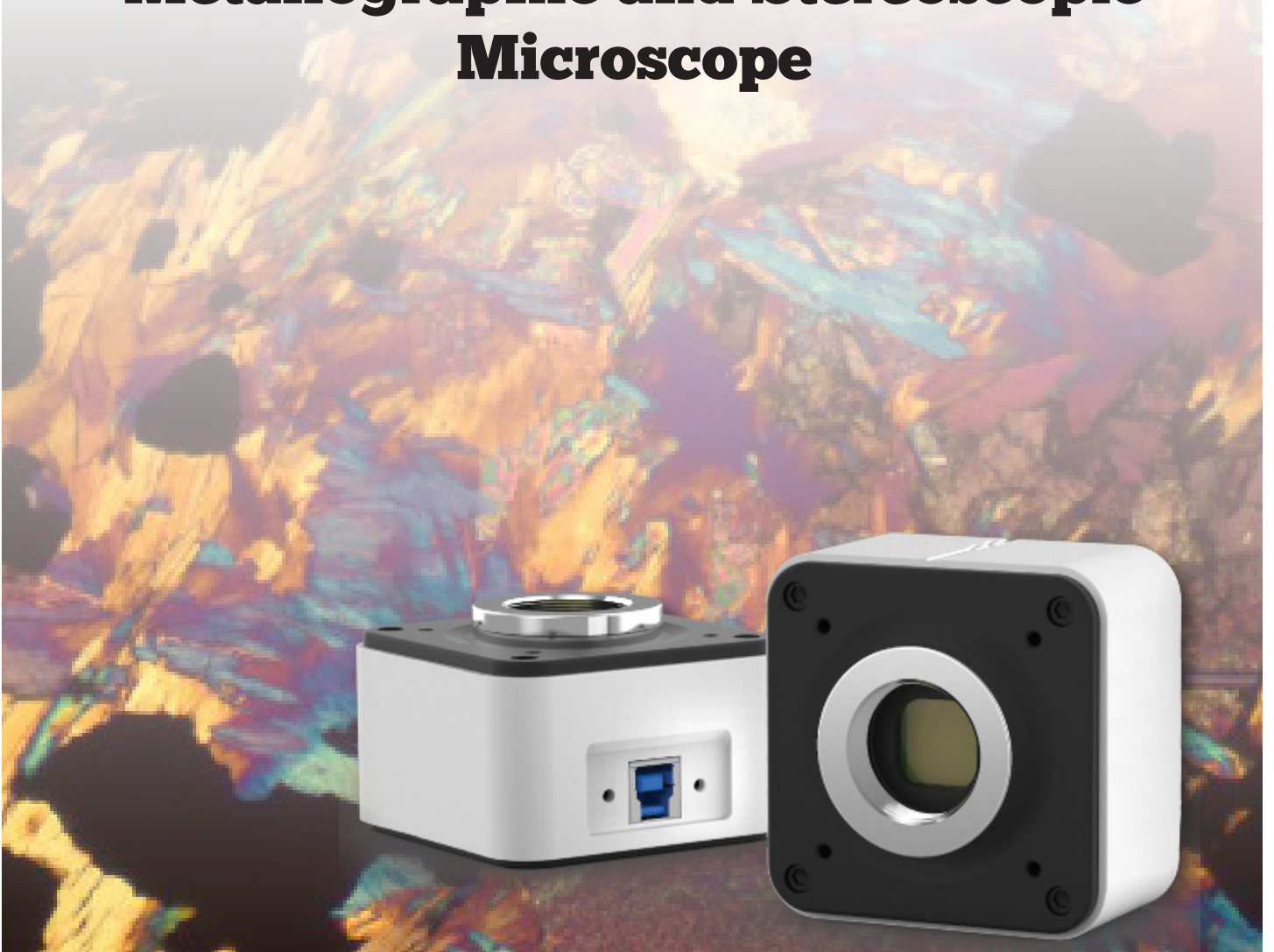




LC-33

**20.0 MP USB3.0 Digital Camera for
Fluorescence, Biological, Polarizing,
Metallographic and Stereoscopic
Microscope**



LC-33 20.0 MP USB3.0 Digital Camera for Fluorescence, Biological, Polarizing, Metallographic and Stereoscopic Microscope

The LC-33 20.0 MP USB3.0 Digital Camera for Fluorescence, Biological, Polarizing, Metallographic and Stereoscopic Microscope meets the needs of most microscopic imaging applications, and its economical price positioning combined with the many features provided by Capture V2.0 gives users with a truly value-for-money experience.

FEATURES

- Revolutionary industrial and biological microscope camera
- Two Core Technology: Real-time image stitching & depth-of- field fusion
- USB3.0 interface

Revolutionary PC Computing Imaging Software Capture V2.0

Unique from the cumbersome process of traditional technology to obtain images after processing, the revolutionary computing imaging software Capture V2.0 provides real-time image stitching and real-time depth of field fusion. This can automatically complete the image while the operator moves the stage - productivity at its best.

1. Real-time image stitching

Within a few seconds of moving the stage, Capture V2.0 can complete the whole process of panoramic stitching in real time, and it can be accurately and quickly stitched under different magnifications and arbitrary angles.

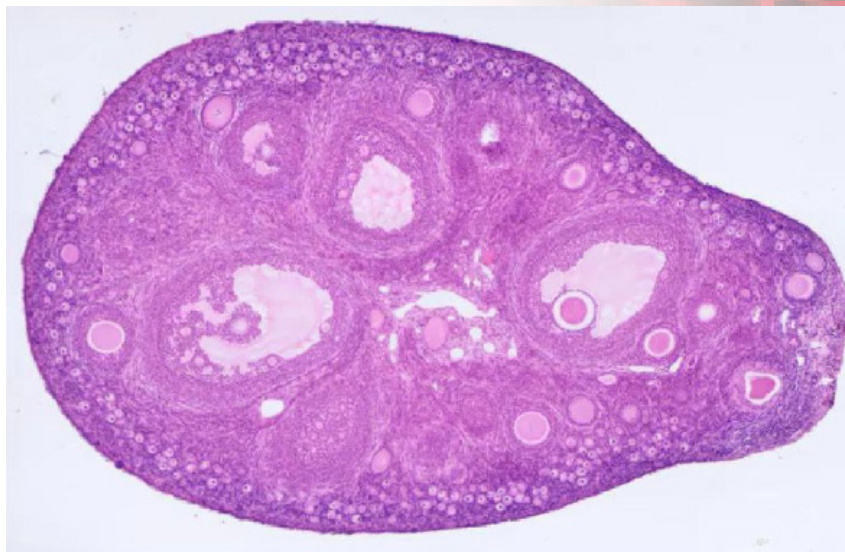
Sample: Mouse ovary section

Magnification:10X

Before



After



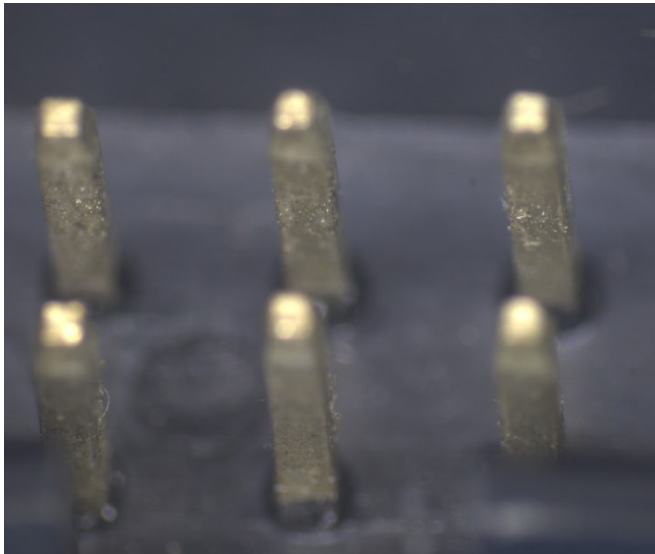
2. Real-time depth-of-field fusion

Rotating the focus ring to image different depth of field points, Capture V2.0 can realize the depth of field expansion and full-length details at a glance, no more blurred images!

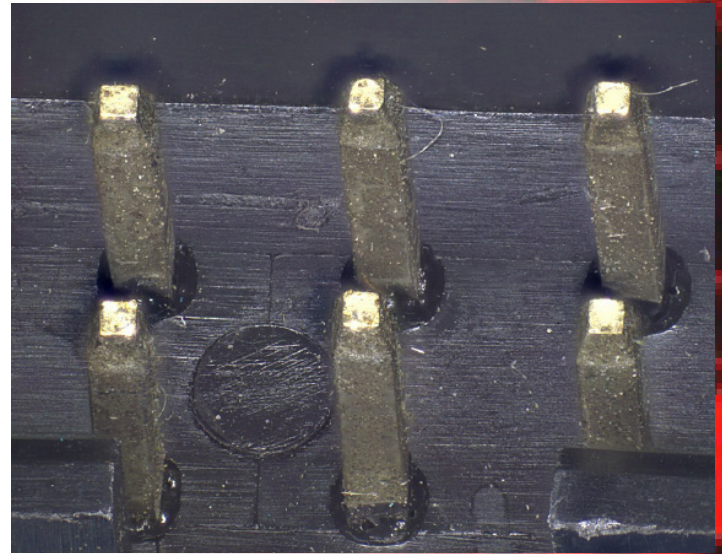
Sample: Circuit board pin

Magnification: 4.5X

Before



After

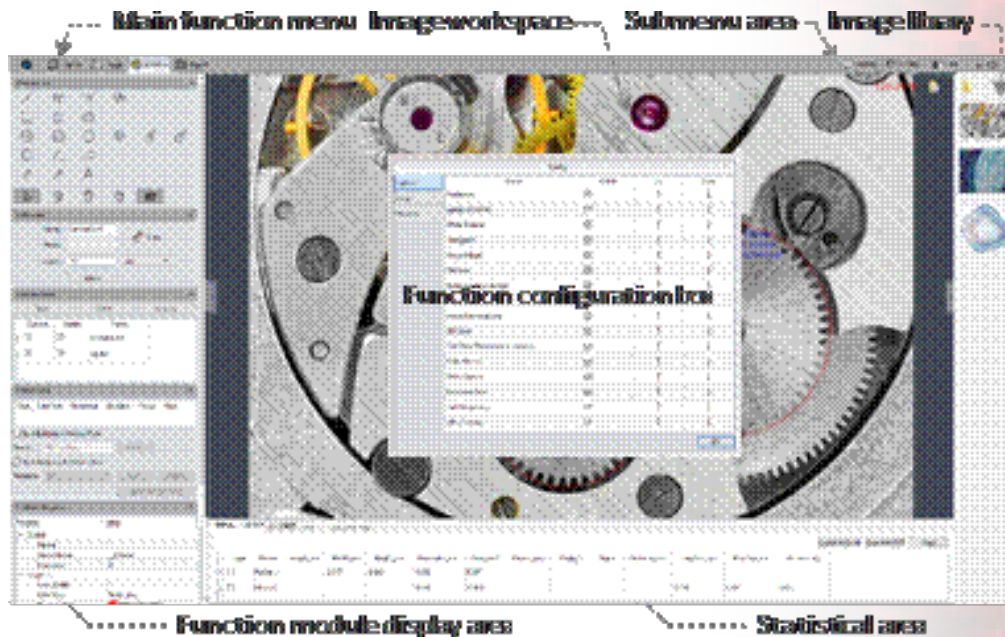


Minimalist Operation Mode, Work More Efficiently and Effortlessly

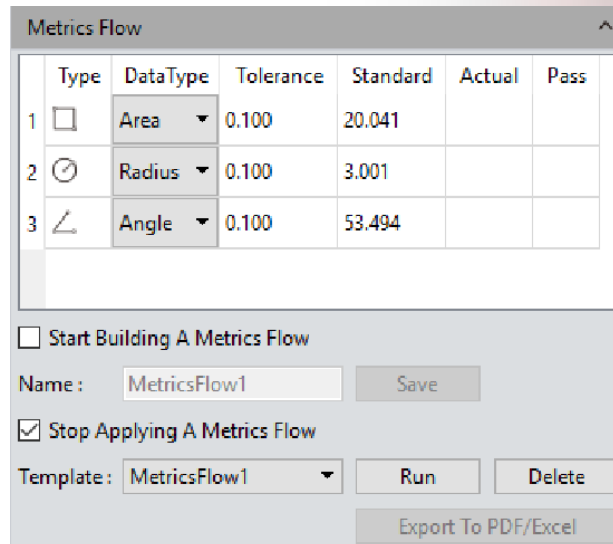
Capture V2.0

1. Modular function configuration

Users can adjust all functions including exposure, processing and measurement according to different applications, and customize the exclusive working interface!



2. Efficient measurement flow

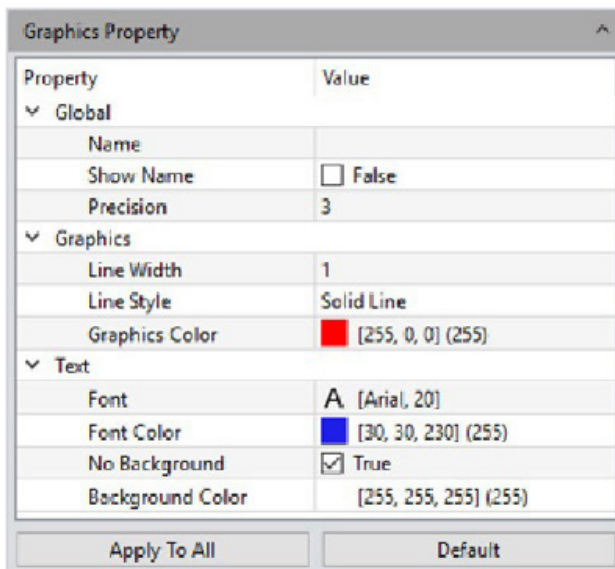


Type	Data Type	Tolerance	Standard	Actual	Pass
1 <input type="checkbox"/>	Area	0.100	20.041		
2 <input type="checkbox"/>	Radius	0.100	3.001		
3 <input type="checkbox"/>	Angle	0.100	53.494		

Start Building A Metrics Flow
 Name:
 Stop Applying A Metrics Flow
 Template:

The measurement stream can be used to record repetitive measurement steps, making it easier for users to perform measurement tasks faster.

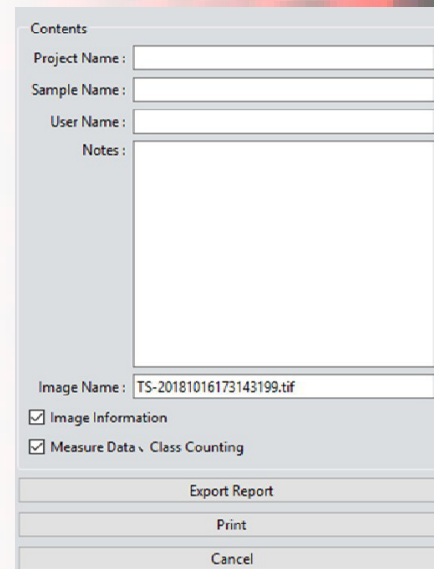
3. Visual property editing



Property	Value
Global	
Name	
Show Name	<input type="checkbox"/> False
Precision	3
Graphics	
Line Width	1
Line Style	Solid Line
Graphics Color	<input type="checkbox"/> [255, 0, 0] (255)
Text	
Font	A [Arial, 20]
Font Color	<input type="checkbox"/> [30, 30, 230] (255)
No Background	<input checked="" type="checkbox"/> True
Background Color	[255, 255, 255] (255)

During the measurement process, the user can modify the properties of lines, fonts, colors, etc. very intuitively.

4. Create an experiment report



Contents
 Project Name:
 Sample Name:
 User Name:
 Notes:
 Image Name:
 Image Information
 Measure Data \ Class Counting

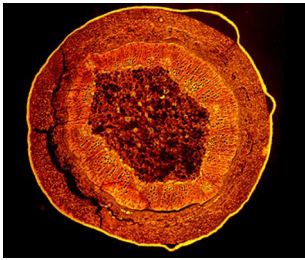
Support for project information input, then automatically generate experimental reports containing image, measurement and counting information.

Quality within reach

- Meticulous CNC arc processing
- Environmental protection spraying
- Unique side decorative patterns
- Stainless steel C ring with no debris

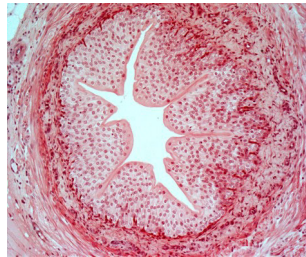
Applications

Fluorescence
microscope



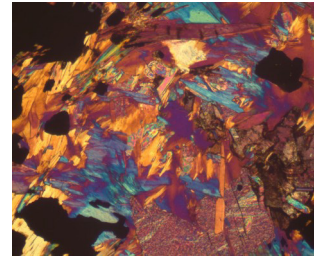
Plant stem section, 10X

Biological
microscope



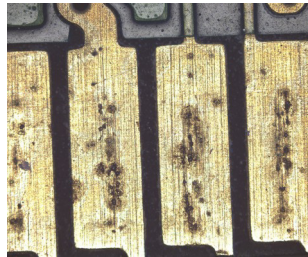
Blood vessel, 20X

Polarizing
microscope



Rock section, 20X

Metallographic
microscope



PCB board, 5X

Stereoscopic
microscope



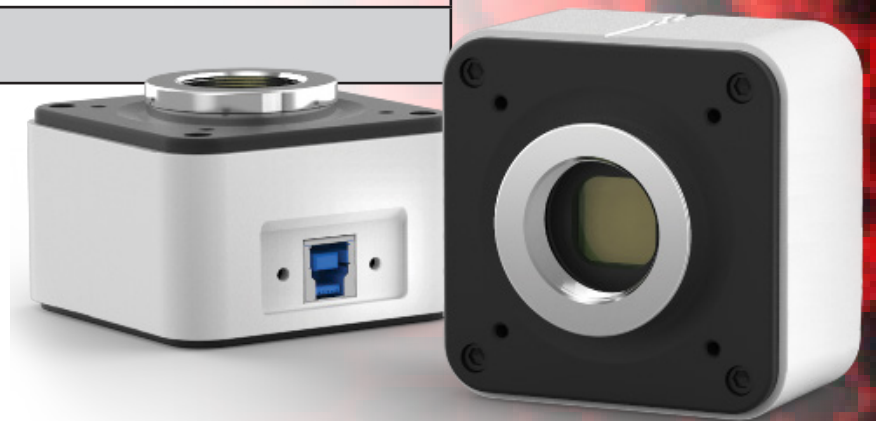
Screw hole, 4.5X

SPECIFICATION

Product Model	LC-33
Shutter Mode	Rolling
Sensor Model	IMX183CQJ-J
Sensor Type	CMOS
Sensor Size	1"
Color/Mono	Color
Pixel Size	2.4x2.4(μm)
Resolution	5472(H)x3648(V)
Frame Rate	15fps(5472x3648)
	53fps(2736x1824 2x2bin) 67fps(1824x1216 3x3bin)
Exposure Settings	Support auto/manual exposure, exposure time: 0.13ms-15s
Other Settings	Auto: color scale, white balance
	Manual: gain, noise reduction, gamma, flat field correction
Color Temperature	2000-15000K
Picture Format	JPG/PNG/TIFF
Interface	Data Interface: USB3.0, Optical Interface: Standard C Mount
Multiple Cameras	Supports 4 Cameras Simultaneously in SDK
PC Software	Capture V 2.0
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
Size & Weight	Size: 68x68x46mm Weight: 330g

Capture V2.0 feature function

Modular function configuration
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
Intelligent flat field correction based on dynamic calculation
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
Customize measuring gauges, layers, precision
Customize image naming, style, save location
Implements drawing: points, lines, rectangles, polygons, circles, arcs, angles
Data export as TXT or Excel
Report generation and printing



SAMPLE IMAGES