

# MIchrome

Revolutionary industrial and biological microscope camera

Two Core Technology: Real-time image stitching & depth-of-field fusion

USB3.0 interface, Support OEM/ODM development





www.tucsen.com

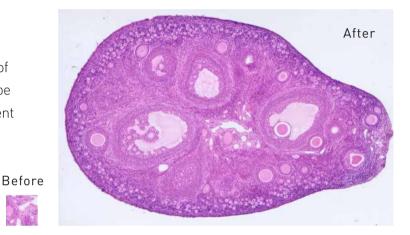
# Revolutionary PC Computing Imaging Software Mosaic V2

Unique from the cumbersome process of traditional technology to obtain images after processing, the revolutionary computing imaging software Mosaic V2 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.

# • Real-time image stitching

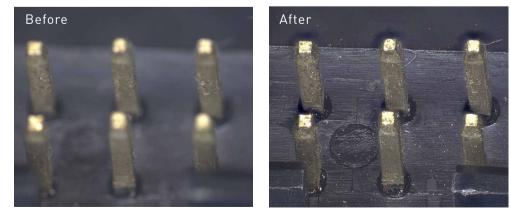
Within a few seconds of moving the stage, Mosaic V2 can complete the whole process of panoramic stitching in real time, and it can be accurately and quickly stitched under different magnifications and arbitrary angles.

Sample: Mouse ovary section Magnification:10X



# Real-time depth-of-field fusion

Rotating the focus ring to image different depth of field points, Mosaic V2 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

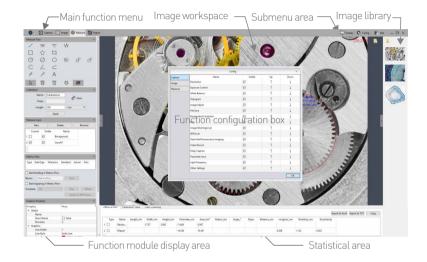
# Minimalist Operation Mode, Work More Efficiently and Effortlessly

Fast, efficient and worry-free is the core design concept of Mosaic V2 software. It adopts a new image "shooting-processing-measurement-reporting" function, modular design, and integrates various intelligent image processing algorithms from Tucsen. It is dedicated to providing users with more simple operation modes and improve work efficiency in all circumstances.

### Mosaic V2

#### 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

	Туре	DataType	Tolerance	Standard	Actual	Pass
1		Area 🔻	0.100	20.041		
2 (	0	Radius 🔻	0.100	3.001		
3	L	Angle 🔻	0.100	53.494		
	Start B	uilding A M MetricsFlo		Save		
Nan	ne:	-	ow1	Save		
Nan	ne : Stop A	MetricsFlo	ow1 Netrics Flow	Save		Delete

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



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 :	TS-20181016173143199.tif
Image Inform	nation
Measure Dat	a Class Counting
	Export Report
	Print
	Cancel

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

# **Choose the Right MIchrome Camera for Your Application**

# MIchrome 5 Pro High-speed global shutter

The MIchrome 5 Pro has many outstanding performance capabilities beyond those of CCD cameras. It not only has an obvious advantages in fluorescent applications, but its global shutter technology can help users get better and faster operation experience when performing "real-time image stitching" for example.



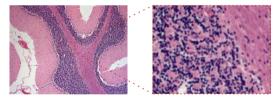
# MIchrome 20 Large area array camera

The MIchrome 20's 1-inch sensor can achieve up to 20 megapixel resolution, giving users a better sensory effect and better image quality.

# MIchrome 16 16 MP color microscope camera

16 megapixel color microscope camera suitable for brightfield imaging applications, with real color rendition and more magnificent details, the MIchrome 16 helps the user capture clear and high-quality images in brightfield.

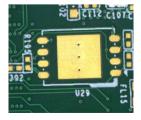
# 2/3" Michrome 5pro Michrome 20

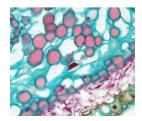


Sample name: Pathological section of chronic leukemia

# MIchrome 6 6 MP color microscope camera

The 6 MP meets the needs of most microscopic imaging applications, and its economical price positioning combined with the many features provided by Mosaic V2 gives users with a truly value-for-money experience.



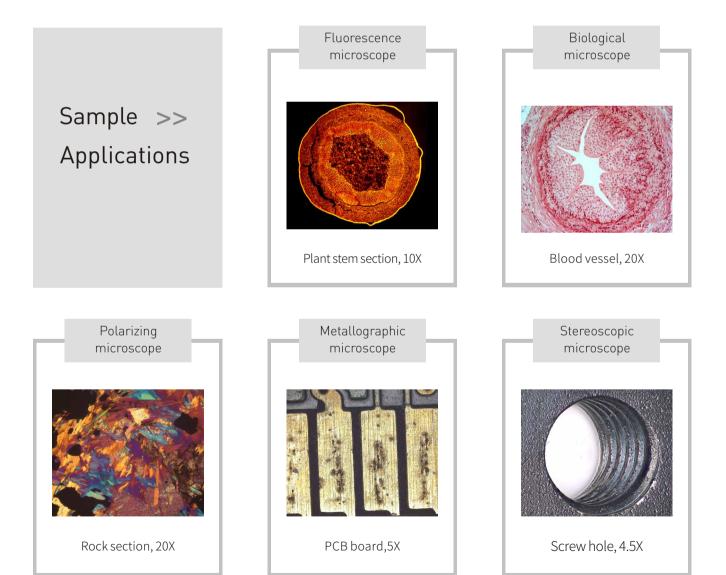


Sample: circuit board

Sample: pine stem cross section

# **Quality within reach**

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



# Camera specification

Product Model	MI chrome 5 Pro	MI chrome 20	MI chrome 16	MI chrome 6
Sensor Model	IMX264LQR-C	IMX183CQJ-J	IMX 206CQC	IMX178LQJ-C
Sensor Type	CMOS	CMOS	CMOS	CMOS
Sensor Size	2/3"	1"	1/2.3"	1/1.8"
Color/Mono	Color	Color	Color	Color
Pixel Size	3.45x3.45(µm)	2.4x2.4(µm)	1.34 x 1.34(μm)	2.4x2.4(µm)
Resolution	2448(H)x2048(V)	5472(H)x3648(V)	4608(H)x3456(V)	3072(H)x2048(V)
Frame	35fps(2448x2048) 88fps(1224x1024)	15fps(5472x3648) 53fps(2736x1824) 67fps(1824x1216)	12fps(4608x3456) 15fps(4608*2736) 19fps(3648*2736)	41fps(3072x2048)
Shutter Mode	Global	Rolling	Rolling	Rolling
Multiple Cameras	Supports 4 Cameras Simultaneously in SDK			
Data Interface	USB3.0			
Optical Interface	Standard C Mount			
Camera Size	68*68*47mm			
Camera Weight	327g			

# Mosaic V2 software features

Capture	Image	Measure	Report
Real-time EDF Real-time image stitching	HDR image synthesis	Customize measuring gauges, layers, precision	Report generation and printing
Real-time 3D noise reduction Real-time sharpening	Static EDF	Implements drawing: points, lines, rectangles, polygons, circles, arcs, angles	Data export as TXT or Excel
Intelligent flat field correction	Static image stitching	Visualization property editor	
intelligent automatic exposure	Real-time fluorescence image synthesis and editing	Dynamic measurement	
HDR	Binary zation	Static measurement	
Delay Capture	Histogram	Layered measurement	
JPG, PNG, TIF, DICOM	Smooth	Intelligent metrics flow is established, reused to improve measurement efficiency	
User parameter group save and load	Filter/Extract/Inverse Color		

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