

MIchrome

Revolutionary industrial and biological microscope camera

 ${\it Two\,Core\,Technology:\,Real-time\,image\,stitching\,\&\,depth-of-field\,fusion}$

 ${\tt USB3.0\,interface,\,Support\,OEM/ODM\,development}$





Revolutionary PC Computing Imaging Software Mosaic V2

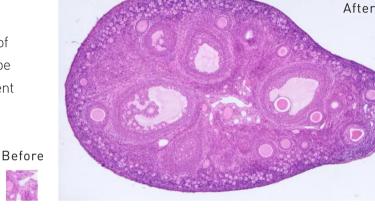
Unique from the cumbersome process of traditional technology to obtain images after processing, the revolutionary computing imaging software Mosaic V2 provides real-time image stitching and real-time depth of field fusion. This can automatically complete the image while the operator moves the stage -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

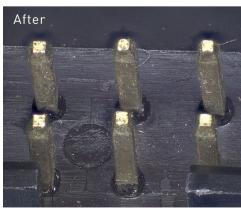




Real-time depth-of-field fusion

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

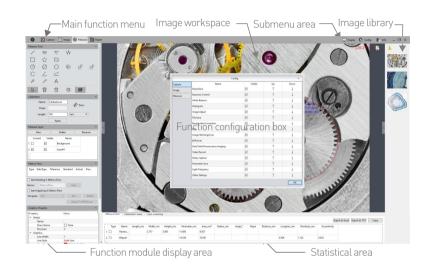
Minimalist Operation Mode, Work More Efficiently and Effortlessly

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.

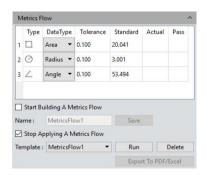
Mosaic V2

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



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 Data	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

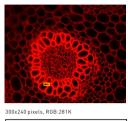
High-speed global shutter for fluorescence imaging

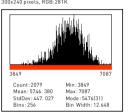
MIchrome 5 Pro

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.



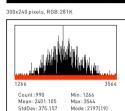
Note: Global shutters are ideal for capturing dynamic samples more accurately, avoiding the distortion of the moving object caused by non synchronized pixel exposure.





▲ Camera: MIchrome 5 Pro Exposure time: 200ms



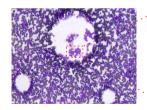


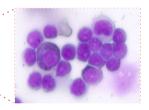
Exposure time: 200ms

Large area array camera for high resolution imaging

MIchrome 20

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



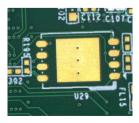


Sample name: Pathological section of chronic leukemia

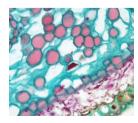
The economically popular 6 megapixel color microscope camera

MIchrome 6

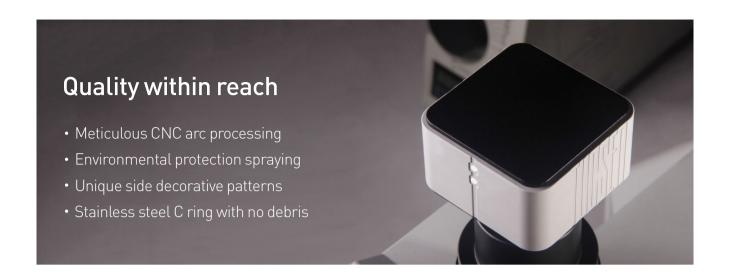
The 6 MP meets the needs of most microscopic imaging applications, and its economical price positioning combined with the many features provided by Mosaic V2 gives users with a truly value-for-money experience.



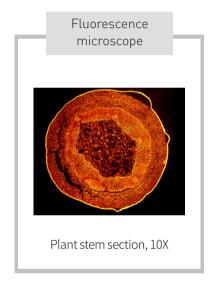
Sample: circuit board

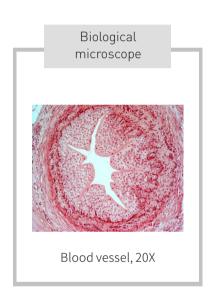


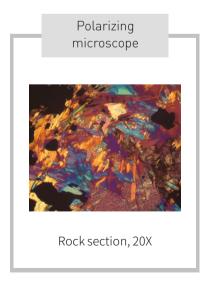
Sample: pine stem cross section















Camera specification

Product Model	MIchrome 5 Pro	MIchrome 20	MIchrome 6		
Sensor Model	IMX264LQR-C	IMX183CQJ-J	IMX178LQJ-C		
Sensor Type	CMOS	CMOS	CMOS		
Sensor Size	2/3"	1"	1/1.8"		
Color/Mono	Color	Color	Color		
Pixel Size	3.45x3.45(µm)	2.4x2.4(µm)	2.4x2.4(µm)		
Resolution	2448(H)x2048(V)	5472(H)x3648(V)	3072(H)x2048(V)		
Frame	35fps [2448x2048] 88fps [1224x1024]	15fps [5472x3648] 53fps [2736x1824] 67fps [1824x1216]	41fps [3072x2048]		
Shutter Mode	Global	Rolling	Rolling		
Exposure Time	0.13ms-15s	0.13ms-15s	0.13ms-12s		
Auto Setting	Exposure Time, Color scale, White Balance				
Manual Setting	Exposure Time, Gain, Noise, Gamma, FFC				
Color Temperature	2000-15000K				
PC Software	Mosaic V2				
Picture Format	JPG/PNG/TIFF/DICOM				
Operating System	Windows , Mac				
PC Requirements	CPU: Intel Core i5 or better[Quad or more Core], RAM: 8G or more				
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				

Tucsen Photonics Co., Ltd.

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E-mail: support@tucsen.com

Software functions

· Real-time EDF

· Real-time image stitching

· Real-time sharpening

Modular function configuration

Intelligent 12-bit ISP color reproduction

Real-time fluorescence image synthesis and editing

HDR image synthesis

Micro-imaging-based intelligent automatic exposure

Intelligent flat field correction based on dynamic calculation

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

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

