

# Michrome 5 Pro

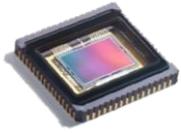
Global Exposure - Professional scientific CMOS Color Camera

- 01 Precision color reproduction      Algorithm ensures the best possible color fidelity
- 02 Global shutter technology      Rapid global shutter results in undistorted image capture  
Revolutionary computing software features
- 03 Professional software

## Excellent imaging performance

for both brightfield and fluorescence imaging needs

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Sony professional CMOS sensor

Uses a Sony 5 megapixel CMOS 2/3" sensor-IMX264, with 3.45 x 3.45  $\mu\text{m}$  pixels. The resolution of the captured image can reach 2448 x 2048. Images taken at low magnification readily resolved.

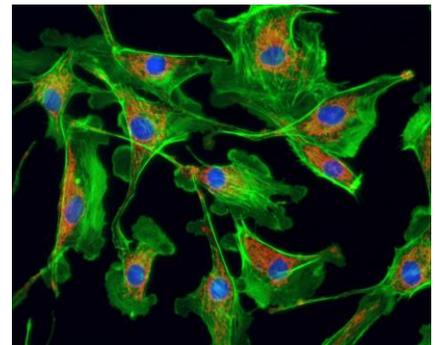
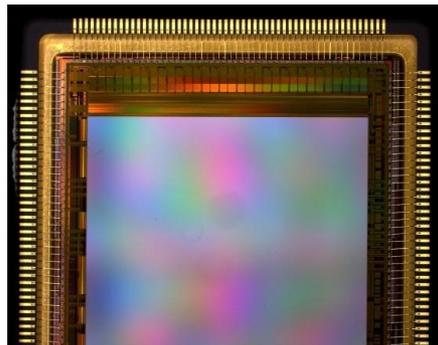
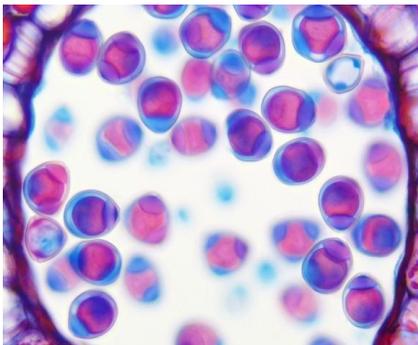


Stable high-speed transmission

USB 3.0 high-speed transmission interface, simple and convenient while ensuring a stable High transmission rate which allows fast focusing at high resolution. Imaging can be performed at a rate of 35 fps.

### ○ Excellent color reproduction

The use of Tucsen's core ISP color-interpolation algorithm effectively corrects the color deviation of the sensor's spectral response, to simulate the human eye's sensitivity to color. The true color in the eyepiece, whether it is a biological bright field, stereo or fluorescence image.



### ○ Advanced Global Shutter Technology

With global shutter technology, all pixels are exposed simultaneously, which allows accurate tracking and capture of dynamic samples and provides, crisp, undistorted, clear images of fast moving specimens.



Global shutter



Rolling shutter

# Mosaic V 2.0

## Revolutionary computational imaging software

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○ Innovative interface, workflow-based design, with a dramatically improved user experience!

From the user's point of view, taking into account the best operating procedures, through modular design, redefining the image acquisition - editing - measurement - report output workflow process. The inclusion of Tucsen's latest image processing algorithm, greatly saves the operating time, effectively improving productivity.

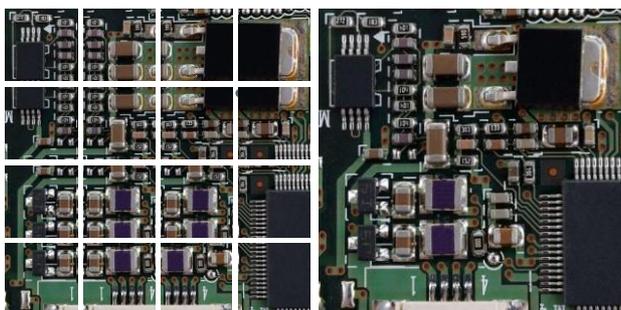


○ Core Technology I: "Real-time" depth-of-field fusion

General microscopes focus only on shallow depth planes. To acquire large depth-of-field images, multiple static images of different focal points need to be post-processed. Reason, the operation is difficult and cumbersome. Mosaic V 2.0 revolutionizes the "real-time depth of field fusion" which produces perfect results just by turning the focus ring to switch the depth.



○ Core Technology II: "Real-time" image stitching



Due to limited field of view, in order to obtain large-field images in the past, it was necessary to perform post-processing on multiple static images in different positions. Mosaic 2.0 core breaks out "real-time image stitching", which can generate mosaic images while moving the stage. Just one click, stitching effect is immediate with a mosaic frame up to 10000x10000 resolution.



## Michrome 5 Pro specification

Product Model	Michrome 5 Pro
Sensor Model	IMX264LQR-C
Sensor Type	CMOS
Sensor Size	2/3"
Color/Mono	Color
Pixel Size	3.45 x 3.45(μm)
Resolution	2448(H) x 2048(V)
Frame	35fps @5MP
Shutter Mode	Global
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	Mosaic V 2.0
Picture Format	JPG / PNG / TIFF
Operating System	Windows / Linux / Mac
Multiple Cameras	Supports 4 Cameras Simultaneously
Data Interface	USB 3.0
Optical Interface	Standard C Mount
Camera Size	68 x 68 x 46 mm
Camera Weight	330 g
Operating Temperature	0-60°C

## Mosaic V 2.0 software feature function

Intelligent 12-bit ISP color reproduction
Real-time depth of field fusion
Real-time image stitching
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, integral camera, 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



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