

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.

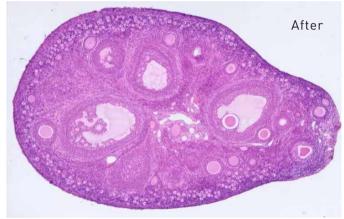
o Real-time image stitching

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

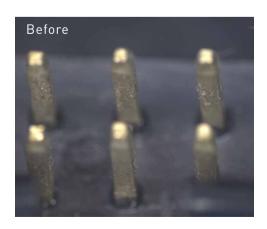
Magnification:10X >

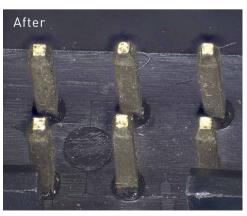




o Real-time depth-of-field fusion

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.

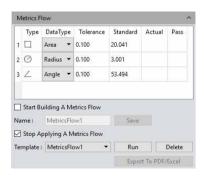
Mosaic V2

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



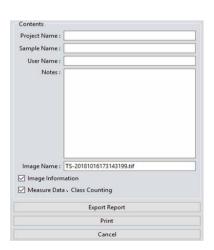
The measurement stream can be used to record repetitive measurement steps, making it easier for users to perform measurement tasks faster.

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

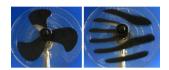


Support for project information input, then automatically generate experimental reports containing image, measurement and counting information.

Choose the Right MIchrome Camera for Your Application

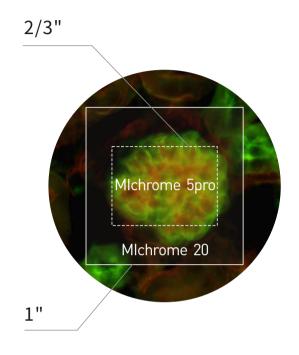
MIchrome 5 Pro High-speed global shutter

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.



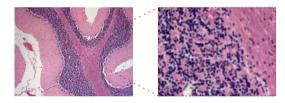
MIchrome 20 Large area array camera

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 16MP color microscope camera

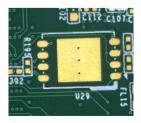
16 megapixel color microscope camera suitable for brightfield imaging applications, with real color rendition and more magnificent details, MIchrome 16 helps user capturing clear and high-quality images in brightfield.



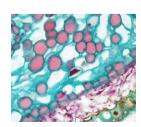
Sample name: Pathological section of chronic leukemia

MIchrome 6 6 megapixel color microscope camera

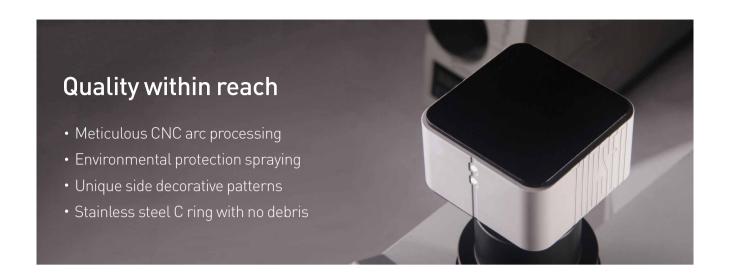
The 6 MP meets the needs of most microscopic imaging applications, and its economical price positioning combined with the many features provided by Mosaic V2 gives users with a truly value-for-money experience.



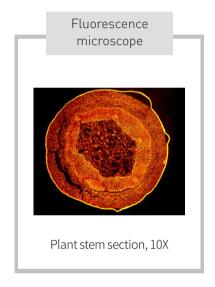
Sample: circuit board

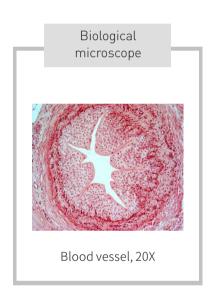


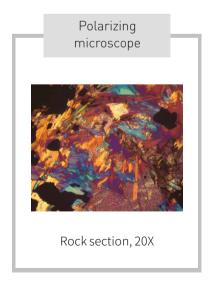
Sample: pine stem cross section















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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