TrueChrome Metrics

Built-in Measurement HDMI Camera

Perfect color reproduction with built-in mouse control and measurement

Compatible with Mosaic V2.1 Computational Imaging Software

ISO9001 CE RoHS

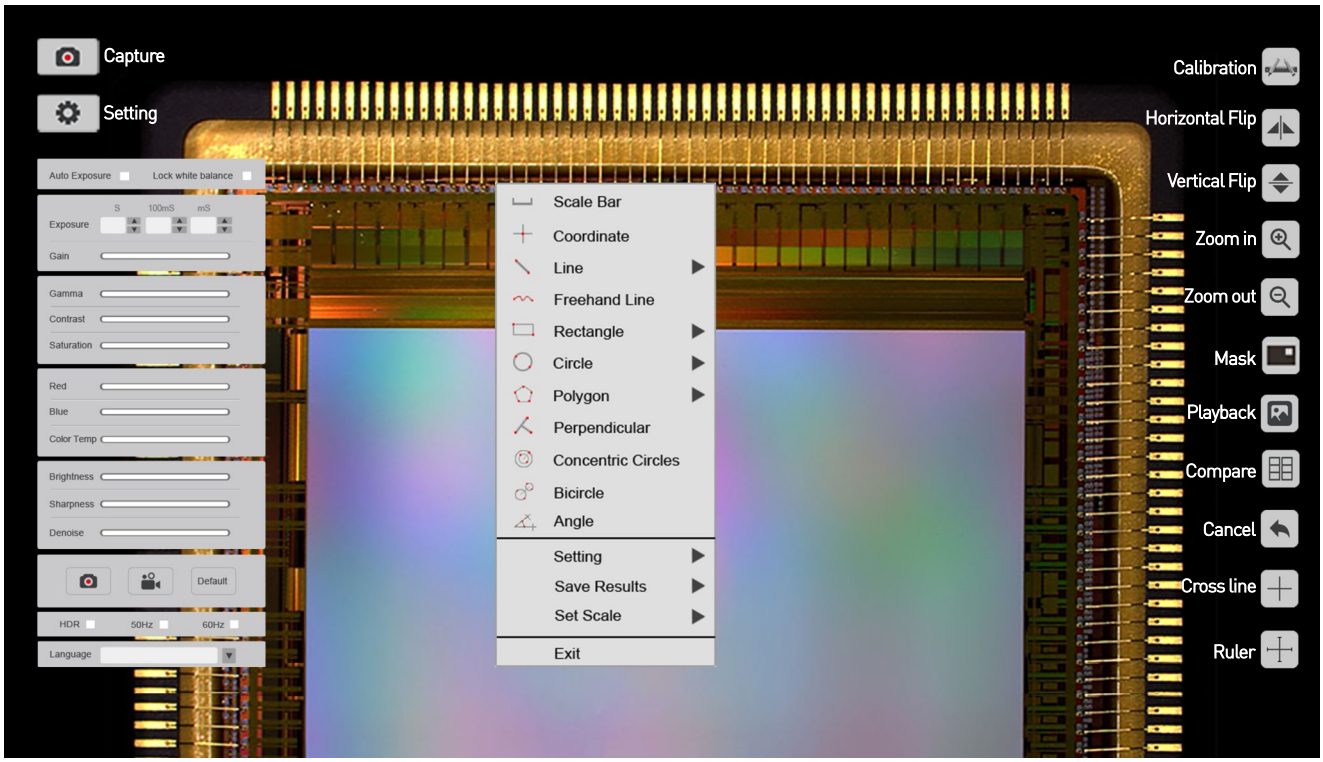
Built-in Mouse Control and Image Measurement System

○ Built-in Mouse Control

The significant innovation of TrueChrome is embedding the software inside the camera. Users can perform image capture processing-measurement-save-export functions through the mouse directly.

○ Professional Digital Image Measurement System

TrueChrome Metrics provides extremely powerful measurement functionalities including, freehand line, rectangle, polygon, circle, bicircle, angle, point-line distance and much more, realizing precise measurement of point and line distance, angle, length, circumference and area. Three different length units of millimeter, centimeter, and micrometer are provided to meet various measurement requirements in different applications.



Revolutionary PC computing imaging software Mosaic V2.1

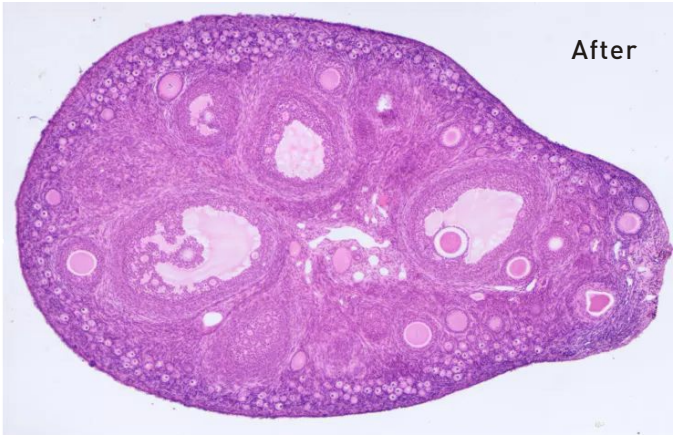
Unique from the cumbersome process of traditional technology to obtain images after processing, the revolutionary computing imaging software Mosaic V2.1 provides real-time image stitching and real-time depth of field fusion. This can automatically complete the image while the operator moves the stage - productivity at its best.

○ Real-time image stitching

Within a few seconds of moving the stage, Mosaic V2.1 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 ▶

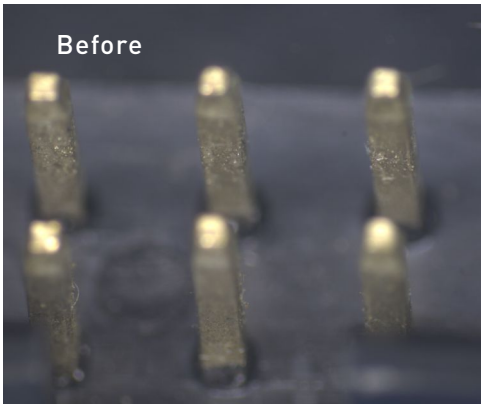
Before

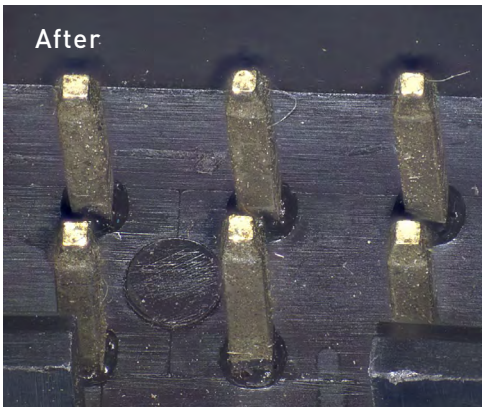


○ Real-time depth-of-field fusion

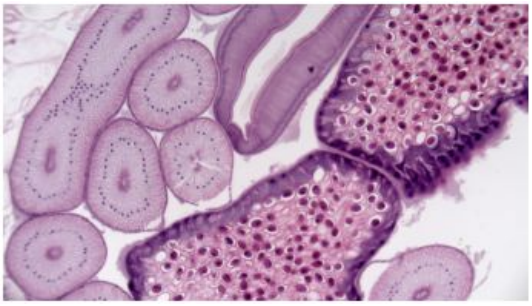
Rotating the focus ring to image different depth of field points, Mosaic V2.1 can then realize the depth of field expansion, full-length details at a glance, no more blurred images!

Sample: Circuit board pin
Magnification: 4.5X ▶





The continuation of the TrueChrome

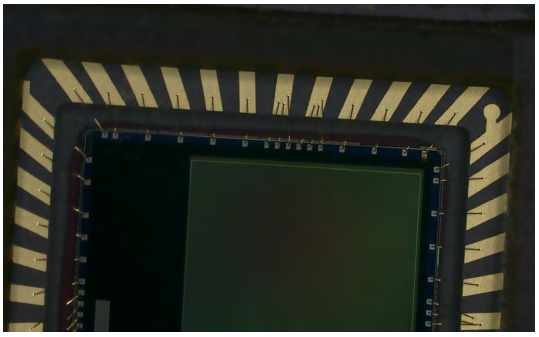


○ Perfect color reproduction

TUCSEN's color processing is capable of a new level of precision, matches the monitor image to the eyepiece view, produces extremely-high color definition.

○ Fastest USB2.0 camera with 30 fps

With 30fps data transfer at an uncompressed resolution of 1920X1080, TrueChrome Metrics sets a precedent. Make it one of the fastest USB2.0 camera in the world.



○ Tailored 1080P HD screen

In order to let users better feel the excellent quality of the Tucsen cameras, we specially customized a 1080P high definition display screen - Retina Screen, which perfectly matches the performance of TrueChrome camera, the up to 30fps transmission rate gives high fidelity, smooth performance

Note: Retina Screen is an optional accessory that users can choose to use.

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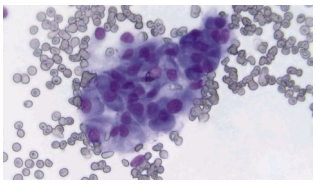
Tucsen is an authorized dopter of the international organization HDMI associate. We are the legal supplier of HDMI scientific cameras which represents the best stability and compatibility of Tucsen HDMI scientific cameras.

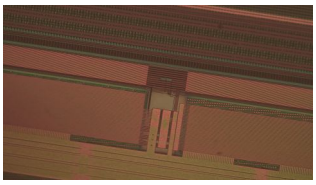
Sample >> Applications

Pathological analysis



Pathological analysis requires that the image color fidelity be 100% accurate, especially for digital imaging, it has great claims for the purple blue color rendition. With perfect performance for purple blue colors, TrueChrome Metrics ensures precise and accurate pathological images.

Material qualification

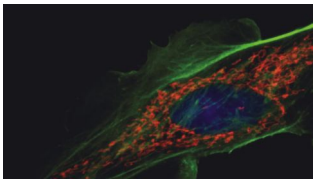


Industry applications highly require excellent clear and sharp images without any delay, up to 60fps high definition live preview from TrueChrome Metrics allows you to comfortably and efficiently perform quality inspection.

Teaching

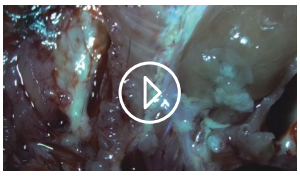
In teaching presentations, the lecturer can use a computer to set up a specimen and project the specimen images to a big screen for students to view. TrueChrome Metrics allows a dual live video stream to a PC and any imaging device with HDMI interface.

Fluorescence imaging



When it comes to low light applications, it crucial to have a high sensitivity camera, with up to 10 seconds exposure capability. This means the TrueChrome Metrics is 300 times more sensitive than the other HDMI cameras in the market.

Medical anatomy recording



Need to record the microsurgery procedures clearly and fluently? TrueChrome Metric's high definition with fast speed recording capability offers superb documentation at 1080P 30fps.

Camera specification

Sensor	CMOS	Sensor Size	1/2.8"
Preview Resolution	2MP, 1920x1080	Capture Resolution	6MP, 3264x1836
Frame Rate	30fps @USB2.0 30fps @HDMI	Capture	SD card(16G)
Video Recording	30fps @PC 30fps @SD Card	Exposure Mode	Auto/Manual
Exposure Time	2ms~10s	White Balance	Auto/Manual
Setting	White Balance,Exposure Time,Noise,Reduction,Gain,Gamma,WDR		
Built-in Software	Cloud 1.0 Ver	PC Software	Mosaic V2
Data Interface	USB2.0,SD,HDMI	Optical Port	Standard C-Mount
Optical Interface	Windows 7 / 8 / 10(32 / 64bit), Mac		
Camera Size	90.7x78x70.8(mm)	Camera Weight	448g

Retina Screen Features

Resolution	1080P(1920x1080)	Display Type	IPS-Pro
Screen Size	11.6"	Aspect Ratio	16:09
Brightness	320cd/m2	Static Contrast Ratio	1000:01:00
HDMI Port	1	Power Supply Type	12V, 2A
Size	282.0x180.5x15.3(mm)	Weight	600(g)

PC software features

- 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
- 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