MShot Image Analysis System

www.m-shot.com

sales@mshot.com

Introdcution

MShot Image Analysis System is independently designed by GuangZhou Micro-shot Technology Co., Ltd special for basic microscope imaging with Mshot cameras.

Fit to Windows Win7/8/10（32bit & 64bit).

Main Function list

Featured functions

Burst
Timelapse
Smart Denoise
Counting point
Anti-fliker: 50Hz, 60Hz
System logs & account control
Dynamic multi-images merge
Connect 4 cameras ones time
Auto image splicing
Auto extend depth of field

Fluorescence imaging

Histogram
Maximum & Minimum value
RGB channel
Input levels & Output levels
Dynamic multi-image merge
Merge channels
Shifting correction
Split RGB channel
Quickly RGB dye
Line profile
Graying

Image Capture & Video

Exposure controls： Auto exposure, Exposure time, Global & Regional exposure, Gain, Overexposure correction

Color adjustment: Automatic white balance, Global & Regional white balance, Monochrome, Invert, RGB separate adjustment, Saturation

Resolution: Preview resolution& Capture resolution, ROI
Frame rate : Normal speed, high speed
Image Flip : Horizontal, Vertical
Image color depth: 8bit, 12bit (16bit for FIT image)

Imaging processing

Dynamic: Gamma, Contrast, Sharpness, Denoise
Static: Brightness, Contrast, Color phase, Saturation, Gamma, Smart brightness

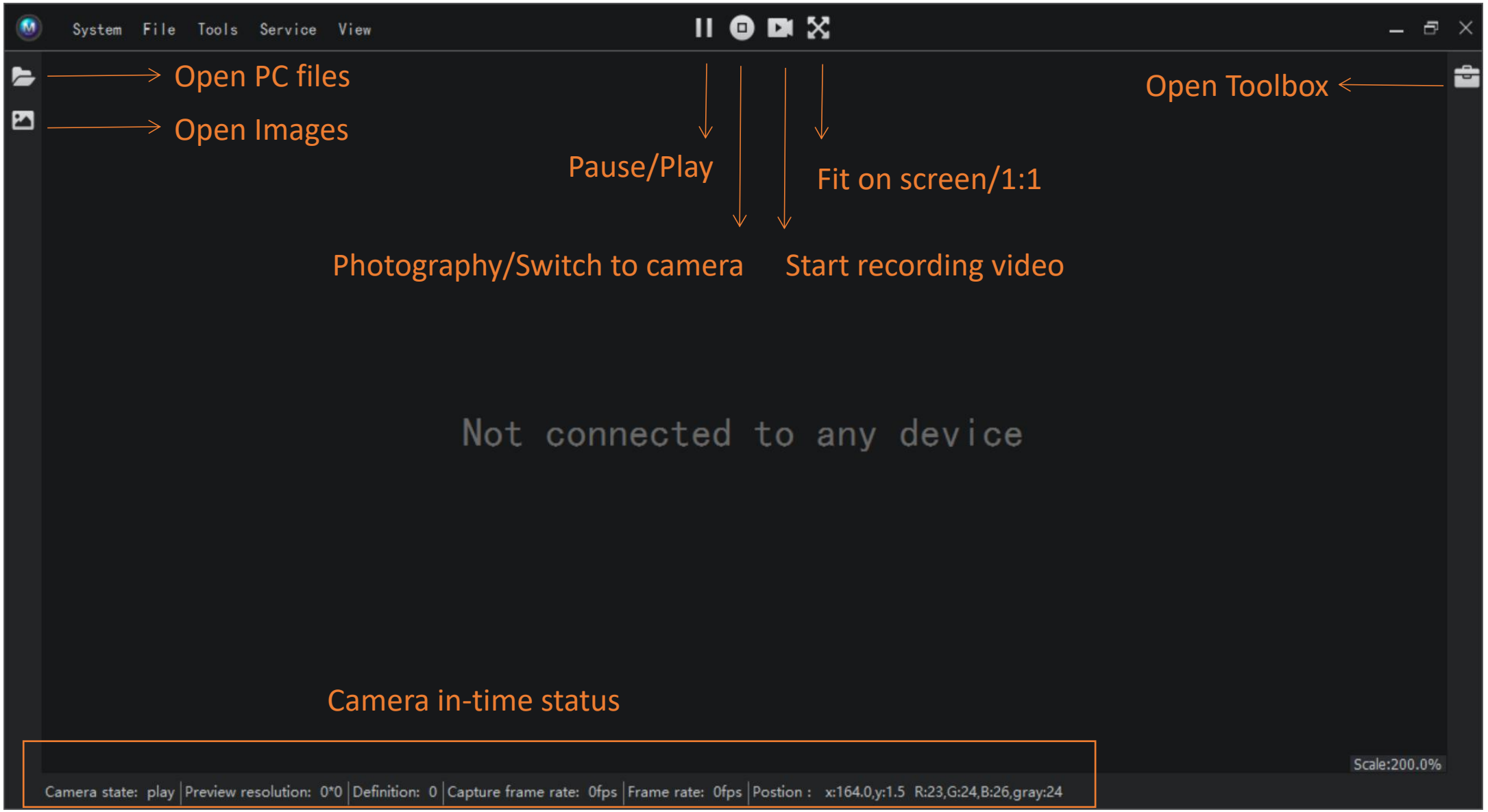
Color adjustment: Automatic white balance, Global & Regional white balance, Monochrome, Invert, RGB separate adjustment, Saturation

Measurement & Calibration

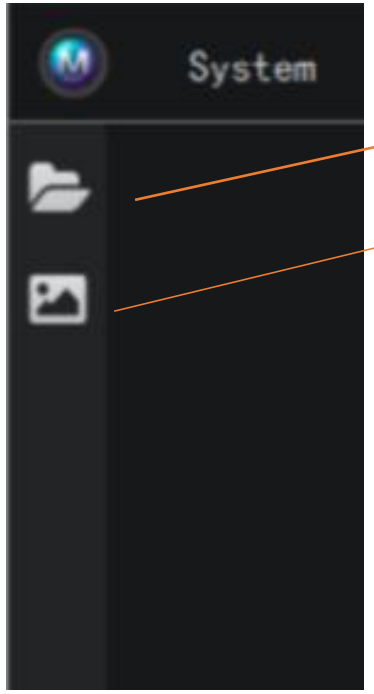
Text, Counting point, Straight Line, Segment Line, Rectangle, Polygon, Angle, Ellipse, Circle, Diameter Circle , Perimeter Circle, Parallel Line, Arrow, Scale Bar, Line Profile, Scale bar

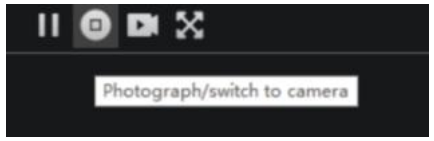
Export data to Excel

Simplified UI

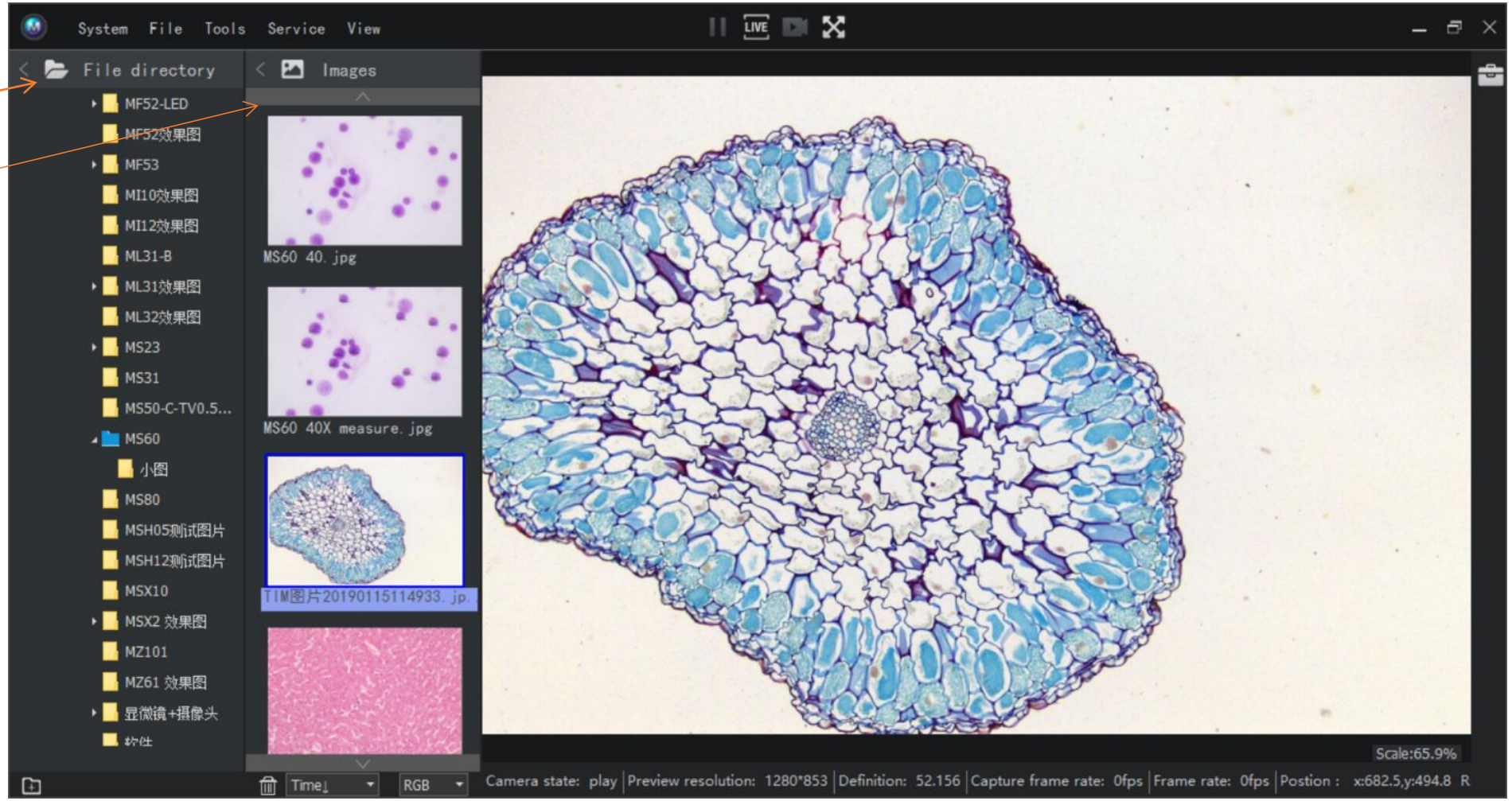


Live view and capture image in PC files

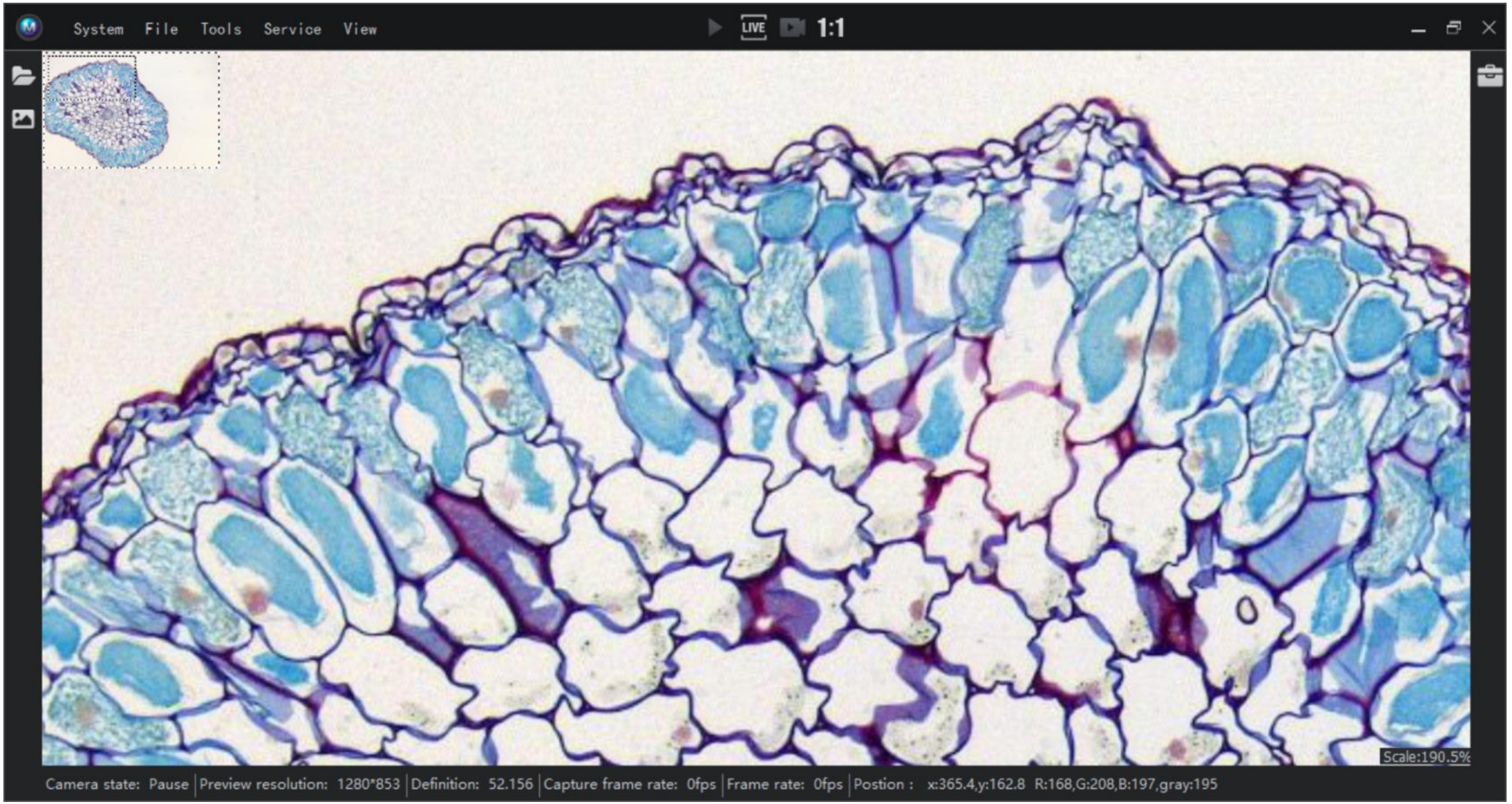




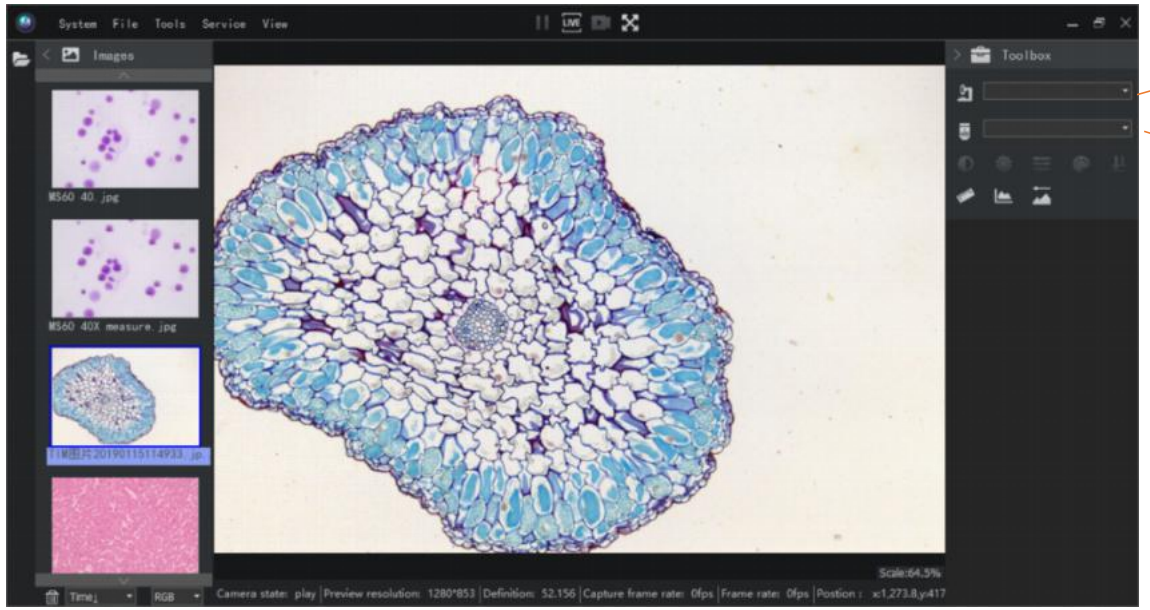
Smart menu remark



Zoom in and zoom out image freely in full screen



All-in-one Toolbox panel



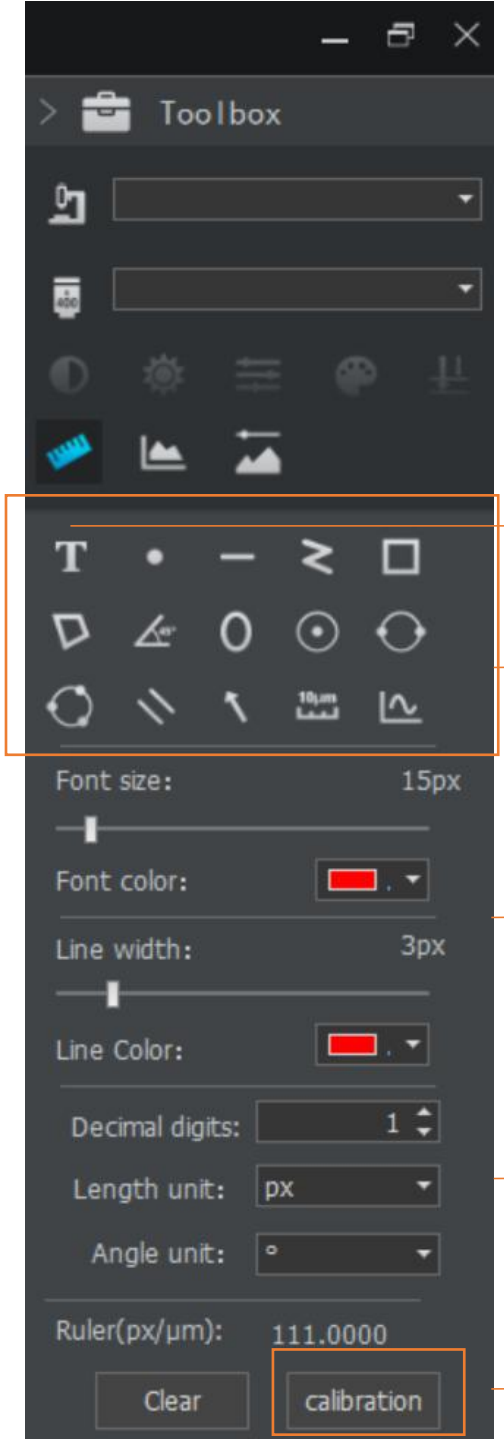
In-time connect and move to different cameras in one software no waiting

Camera item and resolution

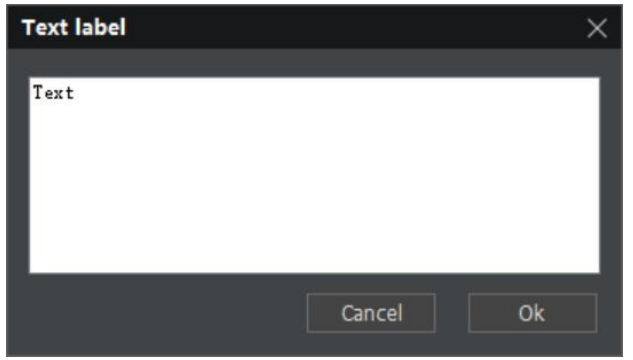
Objective times

Image setting: capture/view resolution, ROI, etc.
Exposure control: gain, exposure time, etc.
Image processing: contrast, sharpness, gama, etc.
Color control: RGB, saturation.
Measurement: captured and live image measure.
Static image processing: image crop, multichannel synthesis,etc.
Fluorescence processing: in time fluorescence combination, fluorescence color adjustment, shifting correction, ect.
White blance
Histogram

Measurement, Clibration, Text



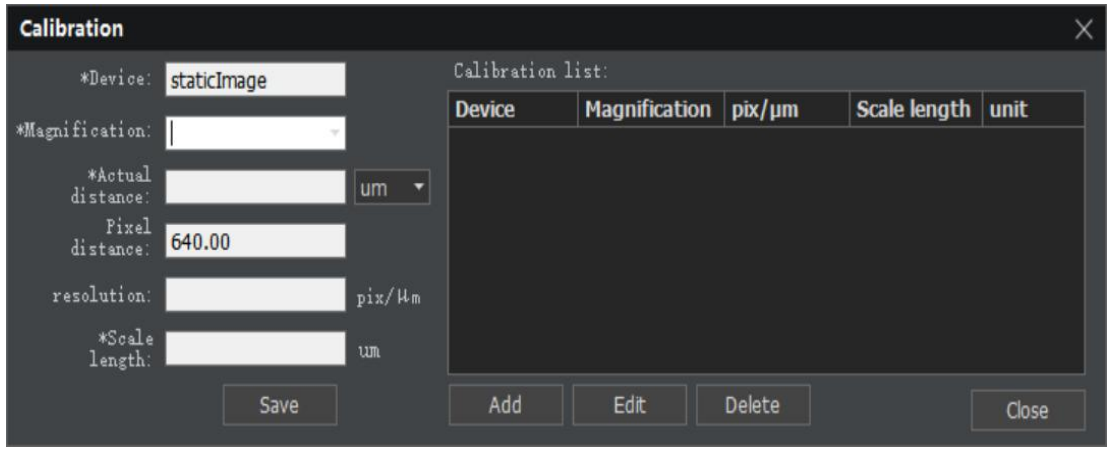
Variety of measurment tools for captured image and live view image



Free set line size and color

Support different units

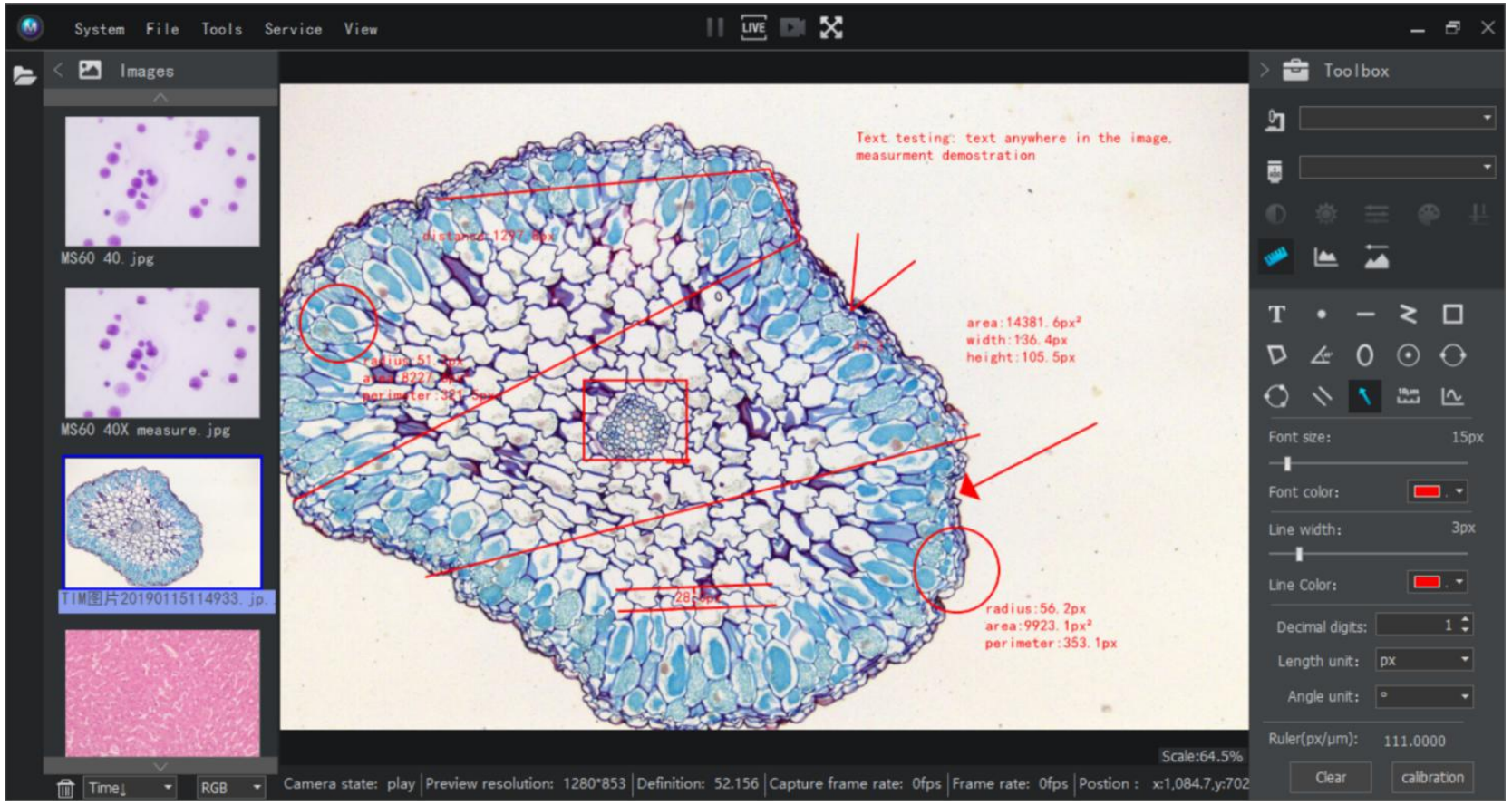
Calibration



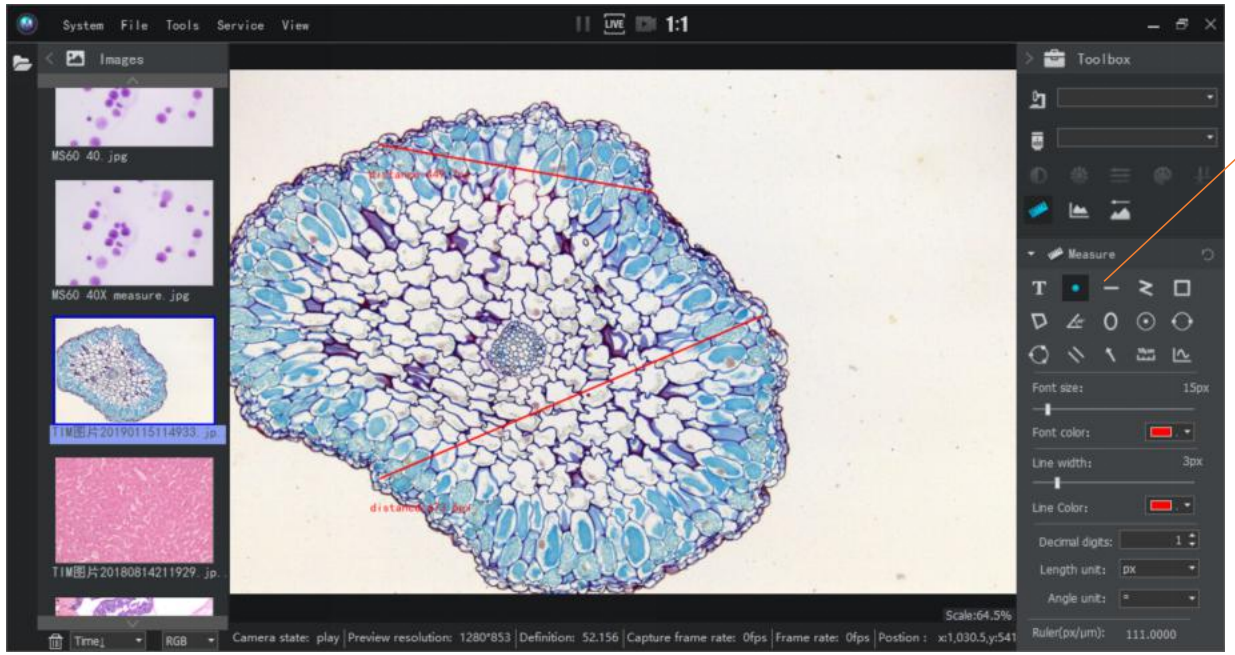
Measurement demostration

Text anywhere on the image

Measurement record moveable



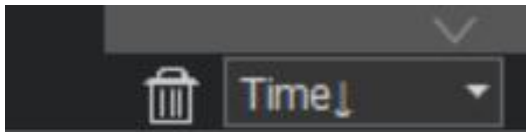
Remove measurement data

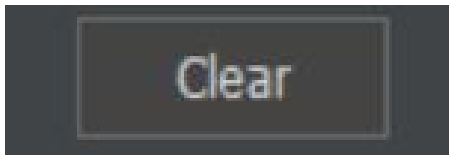


Step 1: Cancel choose measure tool till panel gray

Step 2: Choose measure data, press PC keyboard Delete button

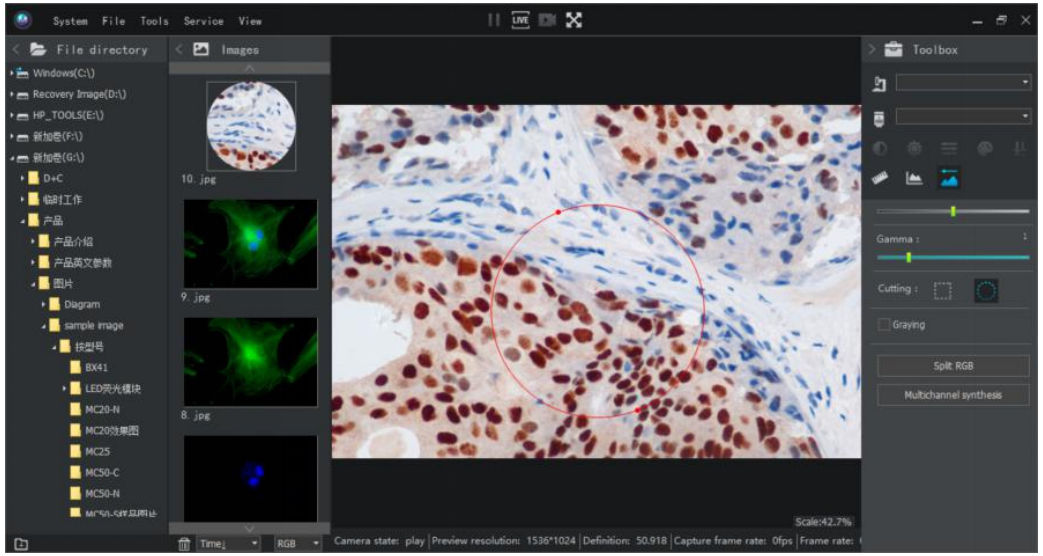
Can draw measure data to it remove

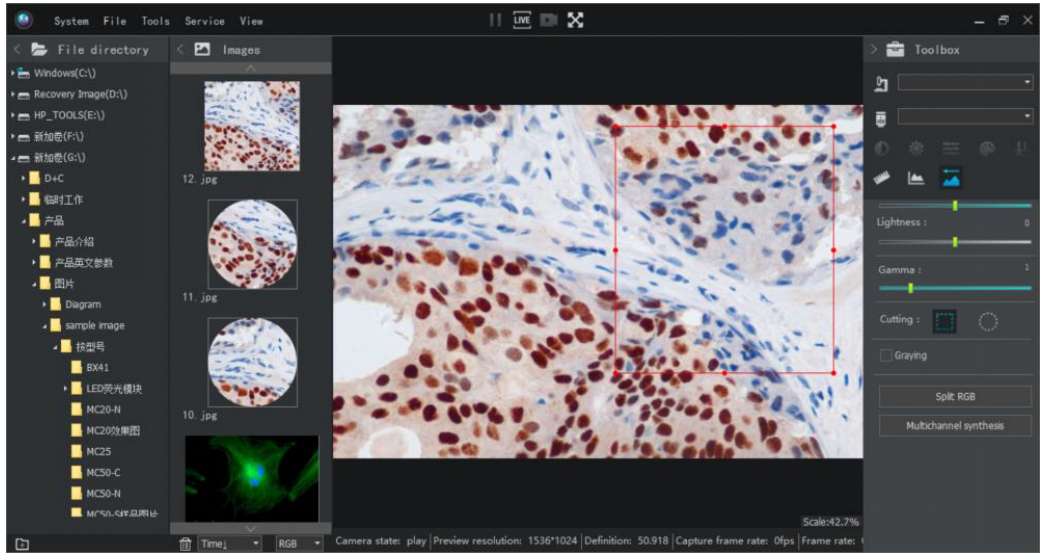




Clear all measurement

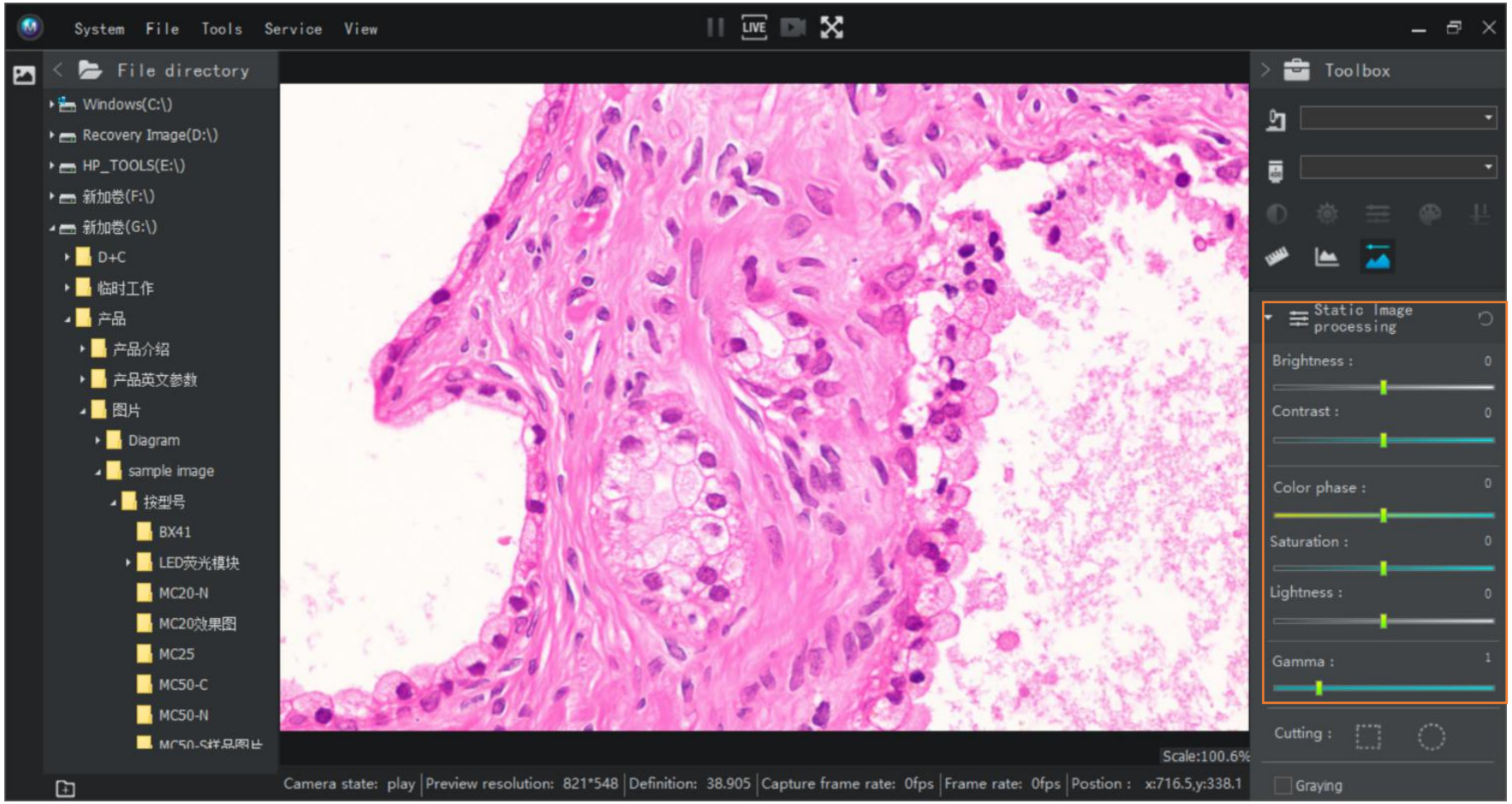
Cut Image


System File Tools Service View
File directory
Images
Toolbox
Windows(C:\)
Recovery Image(D:\)
HP_TOOLS(E:\)
新加卷(F:\)
新加卷(G:\)
D+C
临时工作
产品
产品介绍
产品英文参数
图片
Diagram
sample image
按型号
BX41
LED荧光模块
MC20-N
MC20效果图
MC25
MC50-C
MC50-N
10. jpg
9. jpg
8. jpg
Gamma :
Cutting :
Graying
Split RGB
Multichannel synthesis
Scale:42.7%
Time↓
RGB
Camera state: play | Preview resolution: 1536*1024 | Definition: 50.918 | Capture frame rate: 0fps | Frame rate:

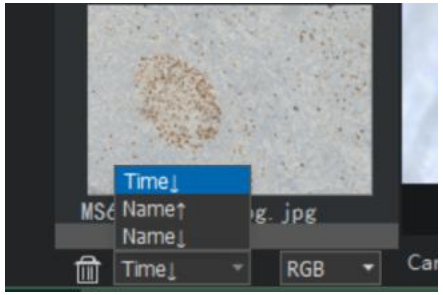

System File Tools Service View
File directory
Images
Toolbox
Windows(C:\)
Recovery Image(D:\)
HP_TOOLS(E:\)
新加卷(F:\)
新加卷(G:\)
D+C
临时工作
产品
产品介绍
产品英文参数
图片
Diagram
sample image
按型号
BX41
LED荧光模块
MC20-N
MC20效果图
MC25
MC50-C
MC50-N
12. jpg
11. jpg
10. jpg
Lightness :
Gamma :
Cutting :
Graying
Split RGB
Multichannel synthesis
Scale:42.7%
Time↓
RGB
Camera state: play | Preview resolution: 1536*1024 | Definition: 50.918 | Capture frame rate: 0fps | Frame rate:

Simple manual count

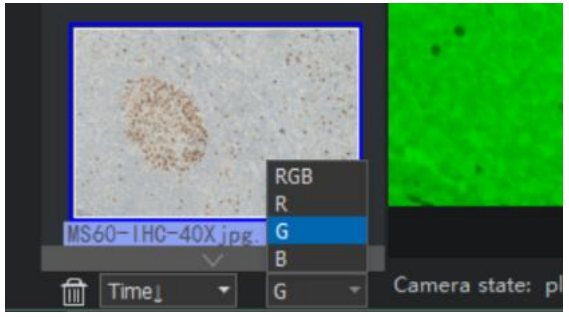
Static image processing tools



Double click to eidt image name

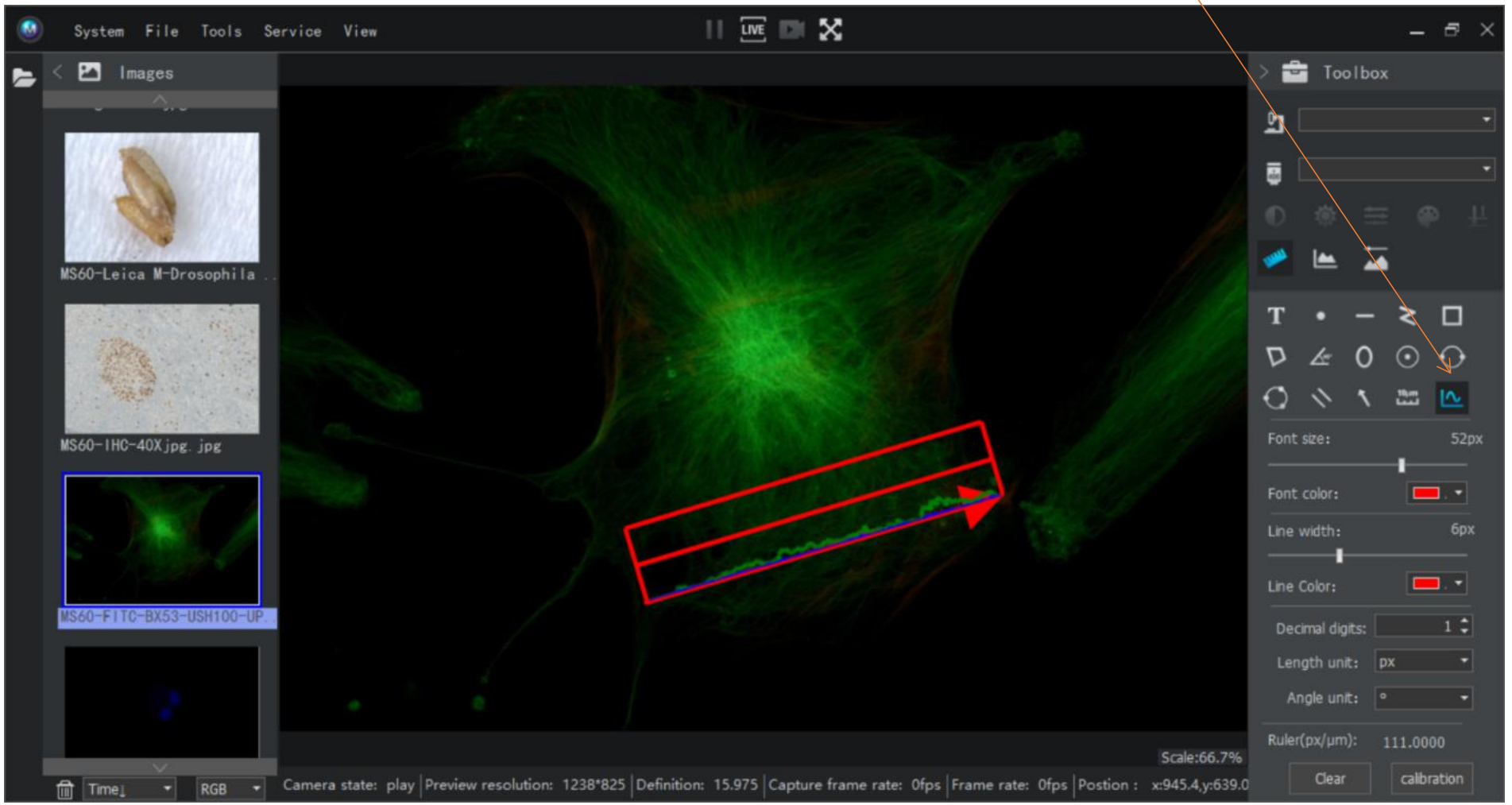


Make image in order by capture time or name

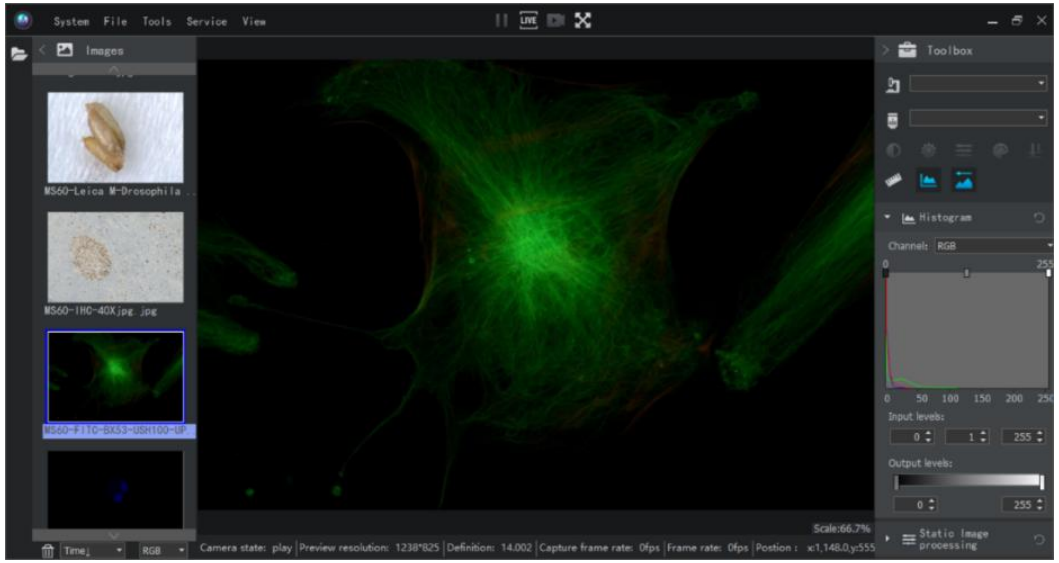


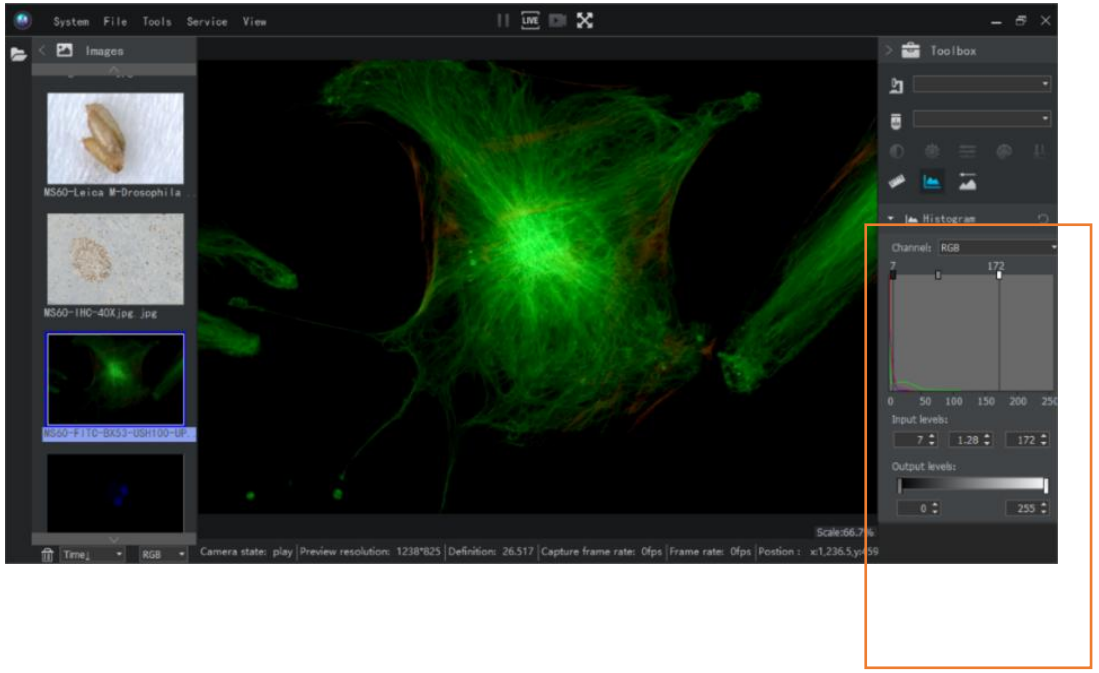
Quick auto dye image in RGB

Show light intensity



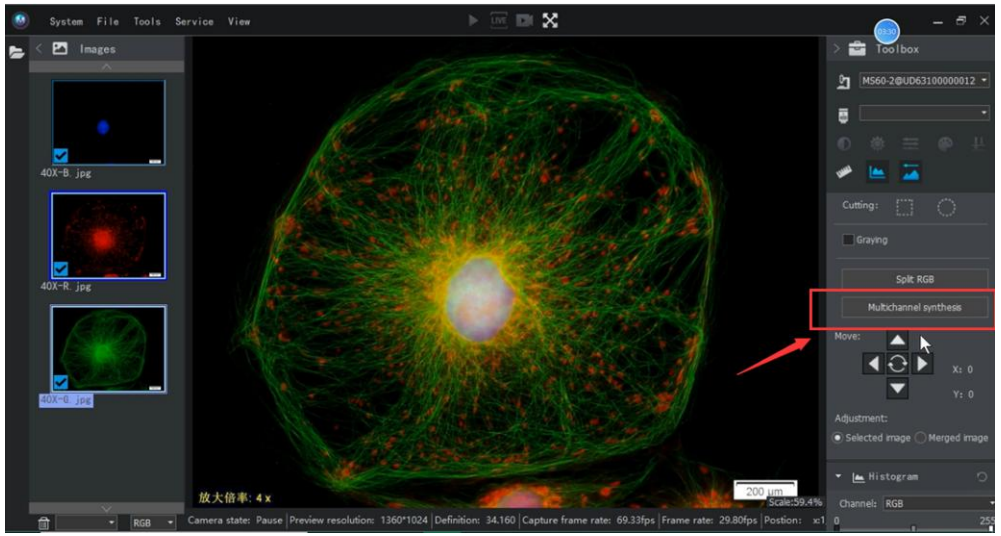
Histogram easy to get better fluorescence and reduce image noise

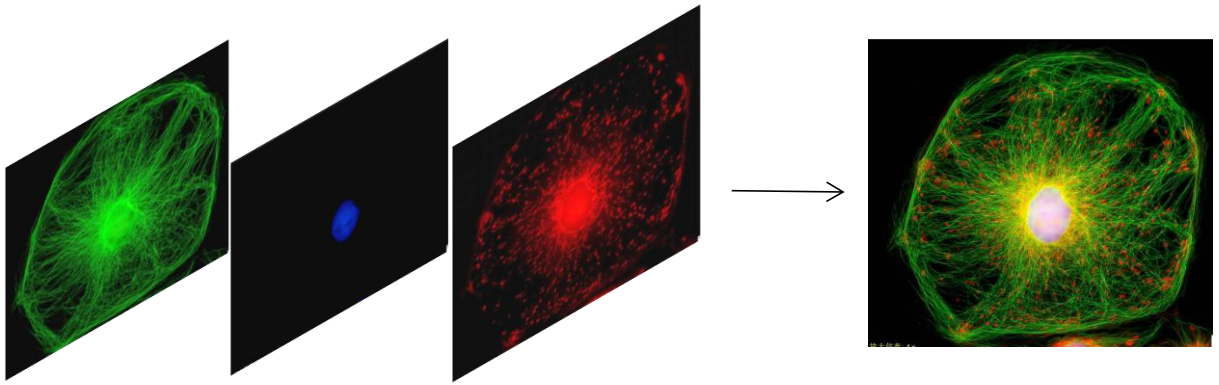


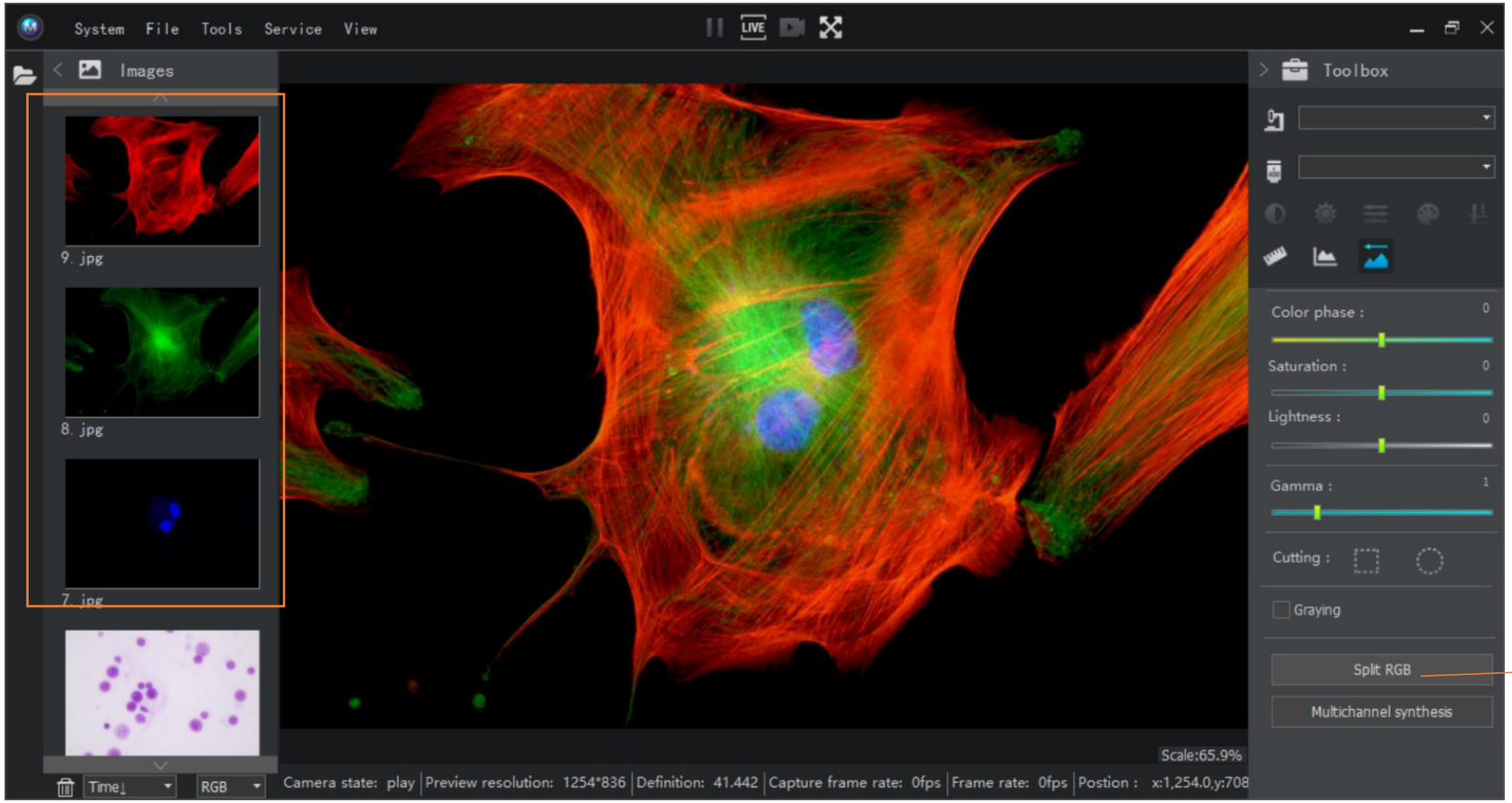


Merge Channels

- Merge different color fluorescence images into a multi-color fluorescence image.

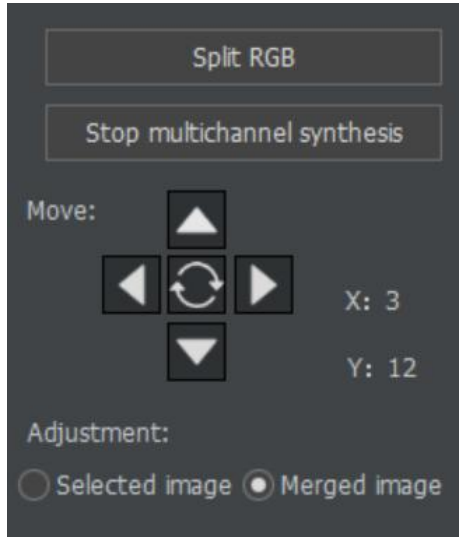


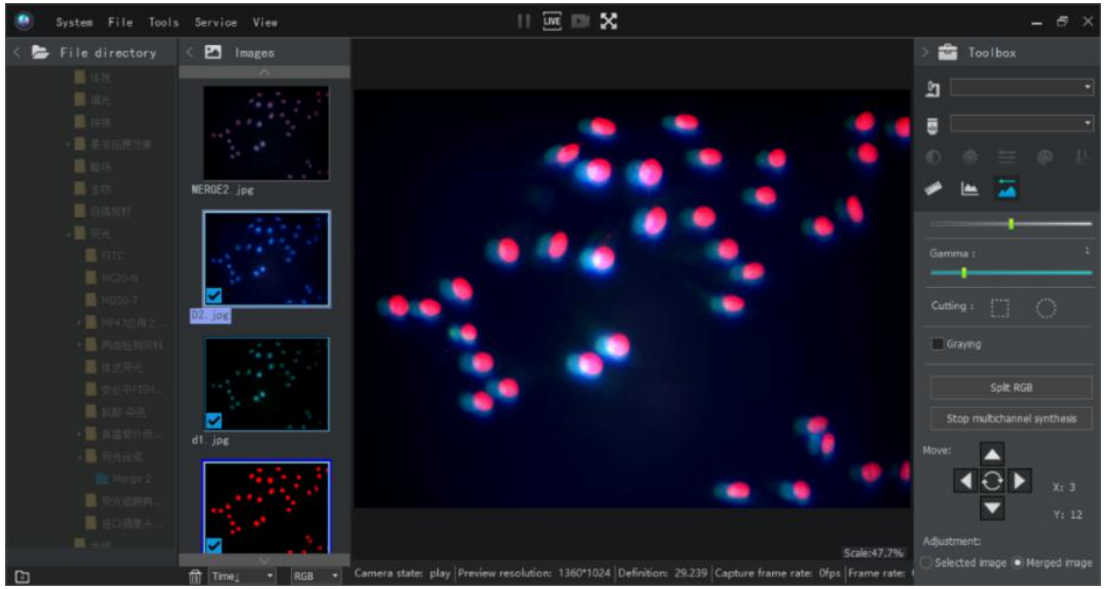


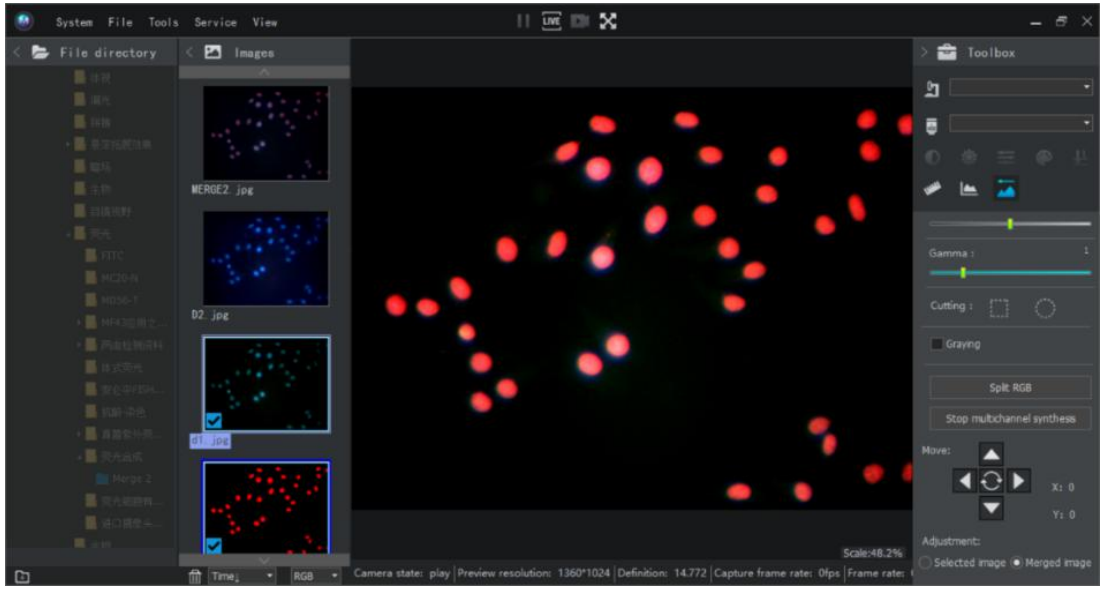

System File Tools Service View
LIVE
Images
9. jpg
8. jpg
7. jpg
Toolbox
Color phase : 0
Saturation : 0
Lightness : 0
Gamma : 1
Cutting :
Graying
Split RGB
Multichannel synthesis
Scale:65.9%
Time↓
RGB
Camera state: play | Preview resolution: 1254*836 | Definition: 41.442 | Capture frame rate: 0fps | Frame rate: 0fps | Postion : x:1,254.0,y:708

Split RGB

Shifting and color correction
Merged fluorescence image

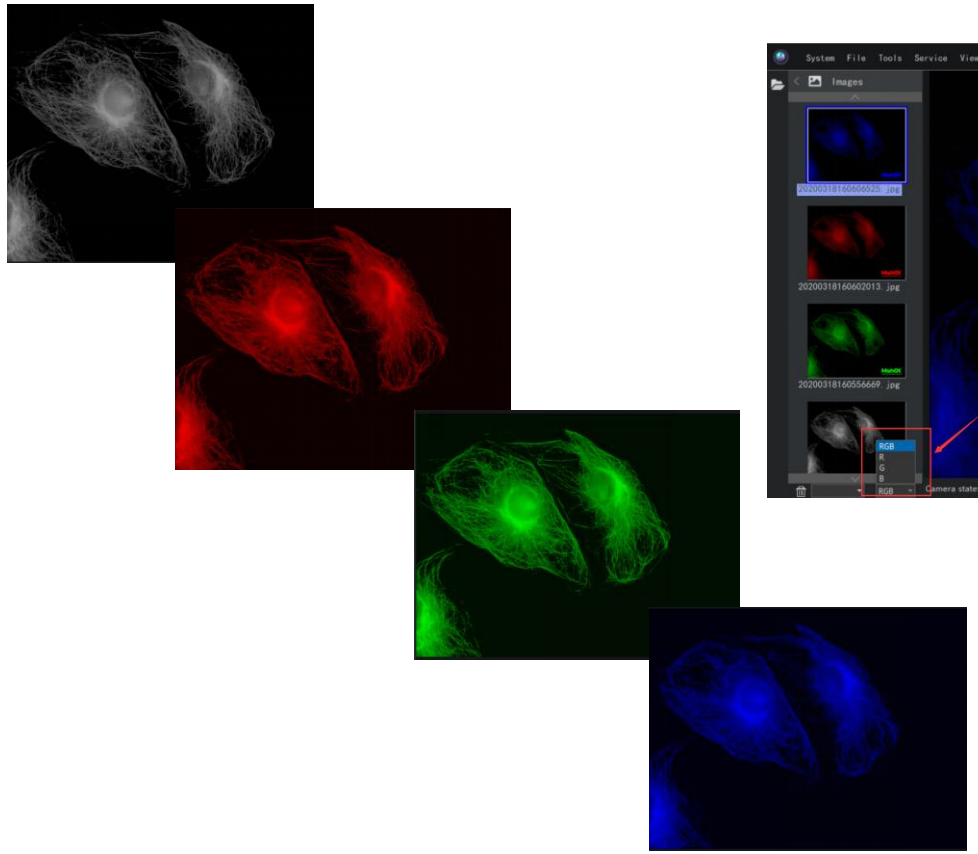


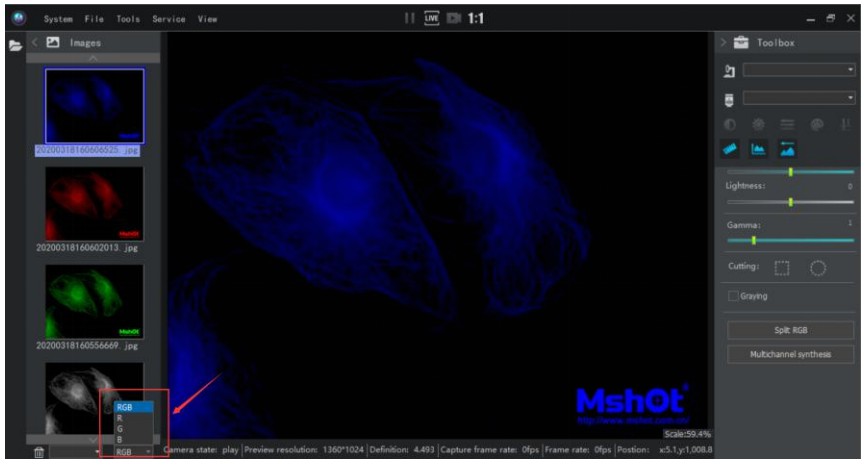




Quickly dye

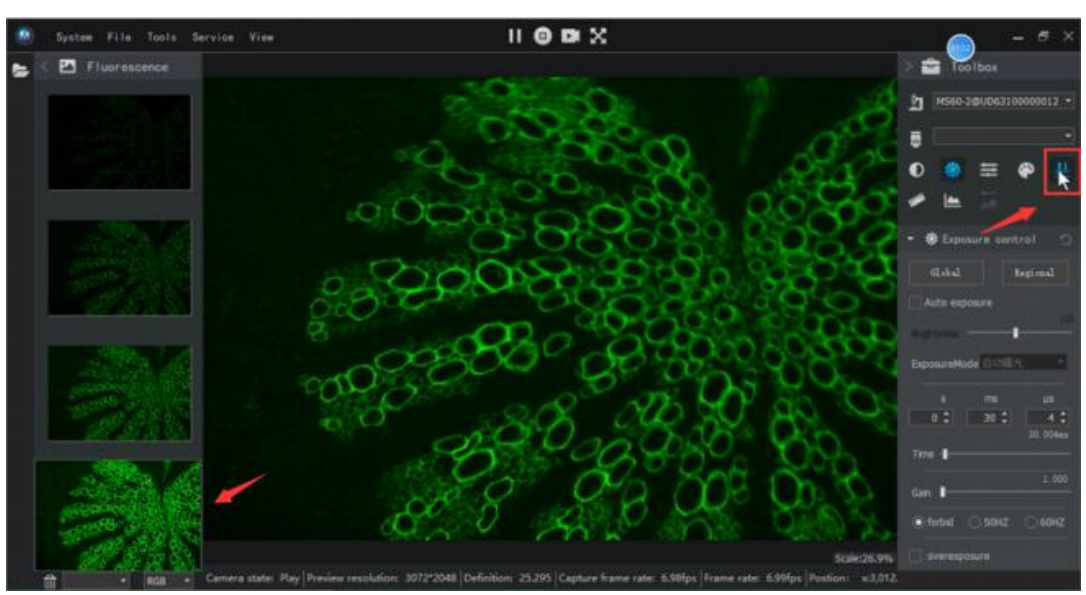
- Just choose R/G/B channel to dye the monochrome fluorescence image for quilkly observation.

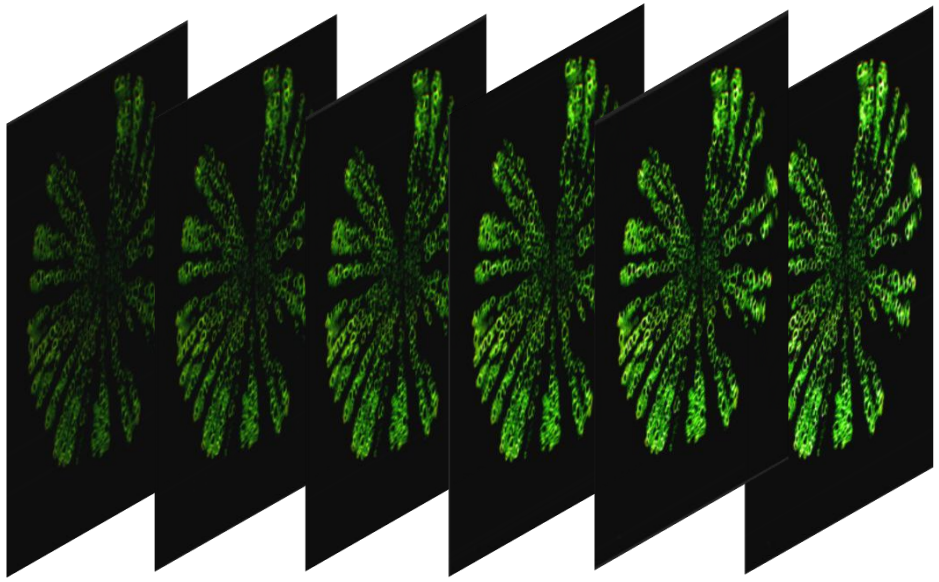


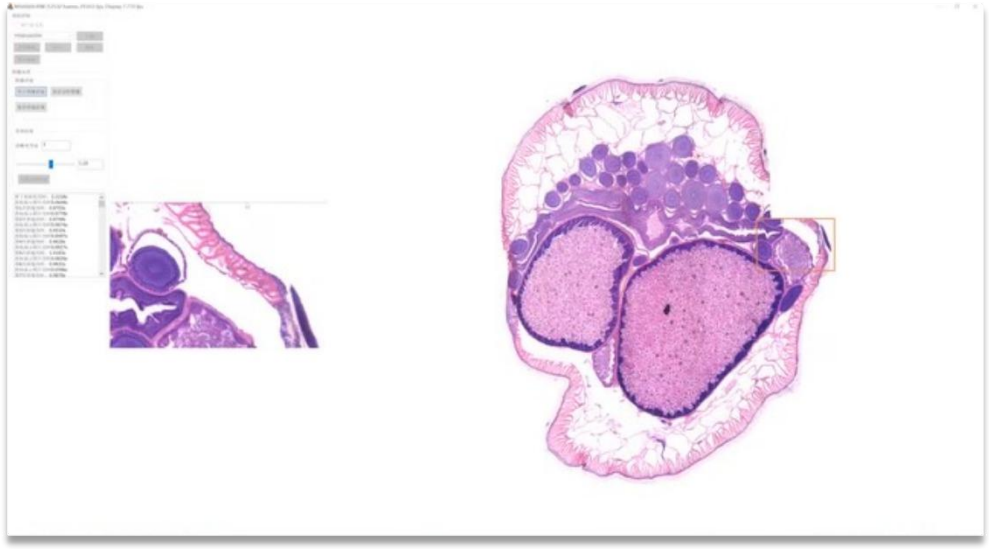


Dynamic Overlay

- Merging max. 7 different exposure images to one better image, reduce image noise (improve SNR) / to enhance fluorescence brightness.



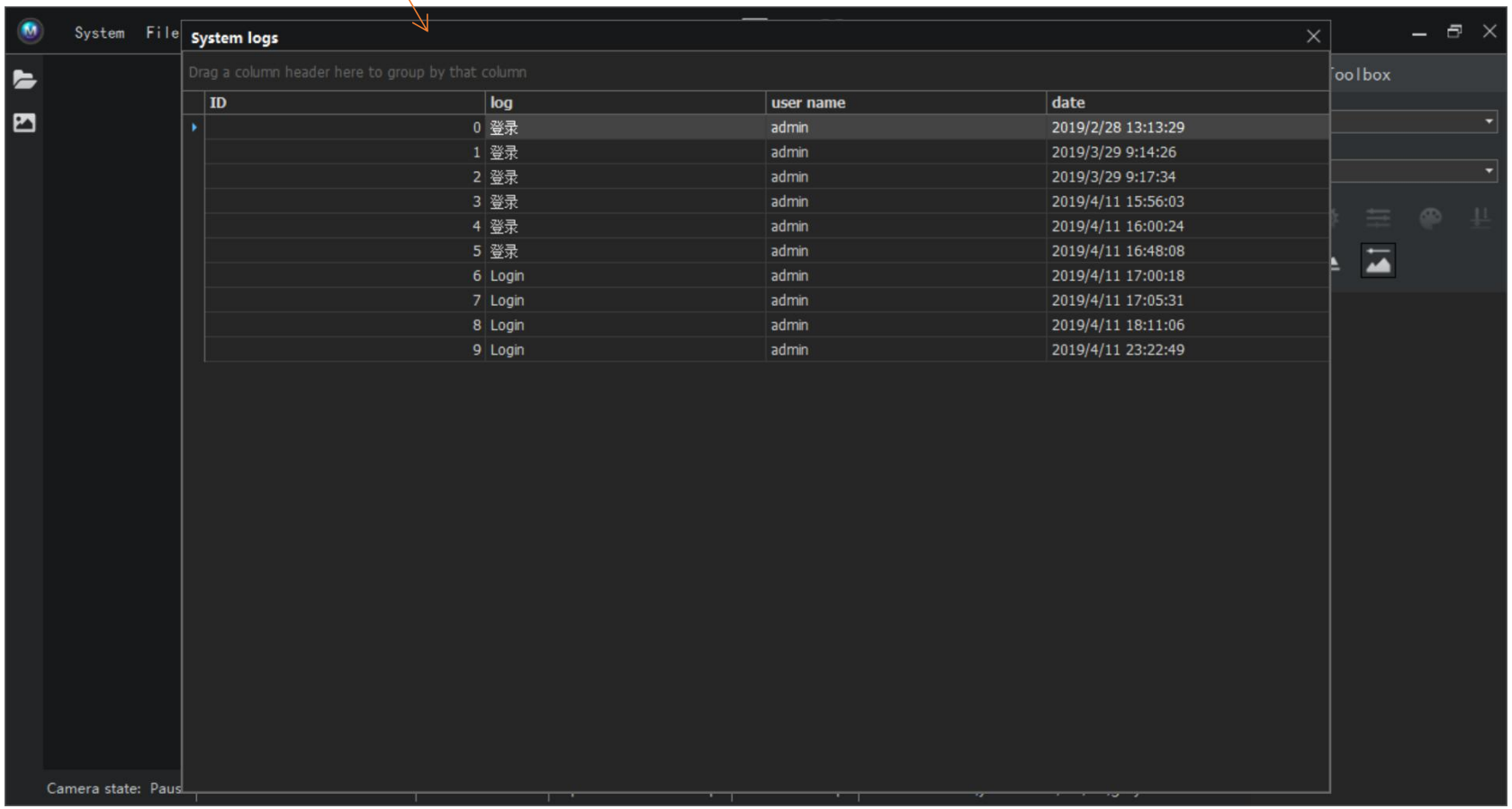


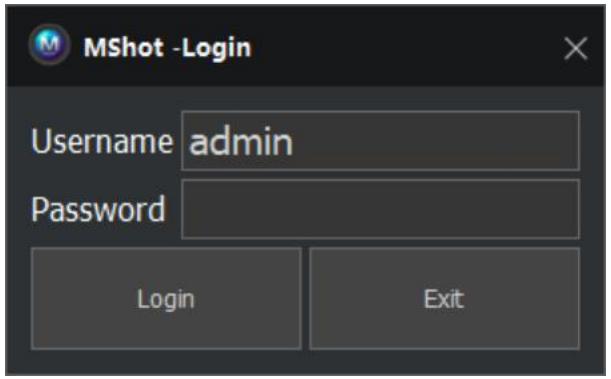


Auto image splicing

Auto extend depth of field

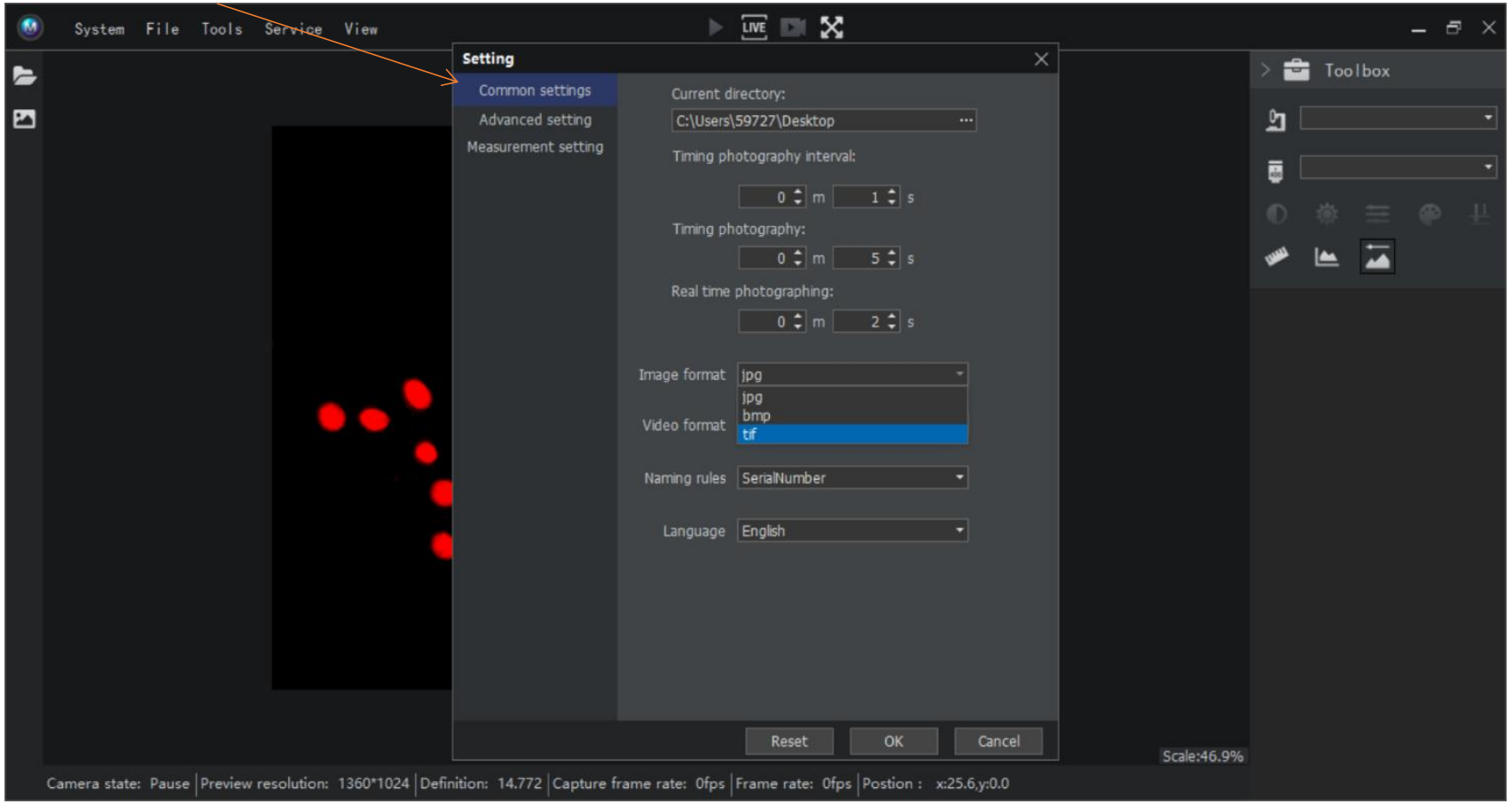
Record user login time

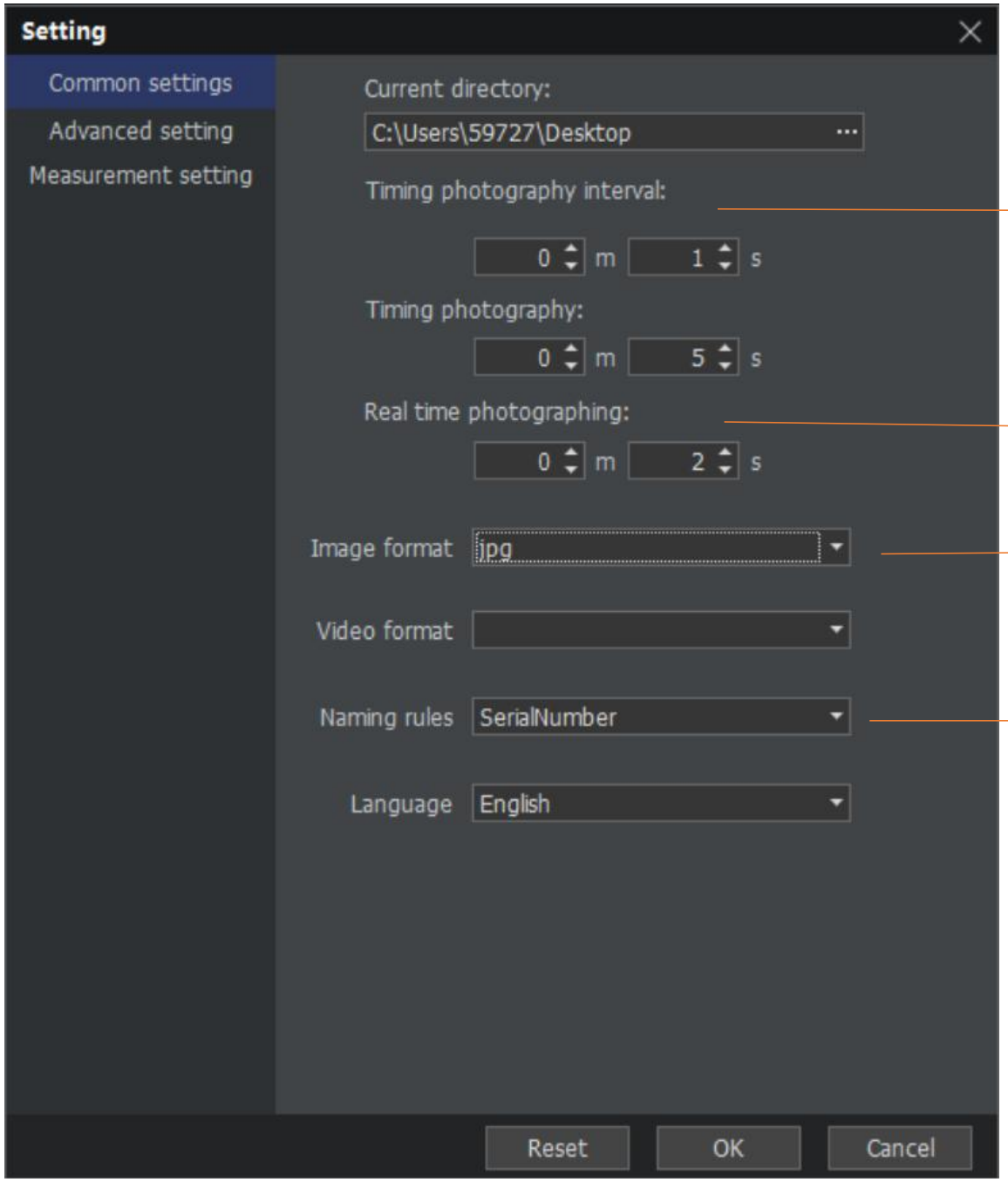




The version of password is optional (Not included in standard version)

Set file, format, timing, language,etc



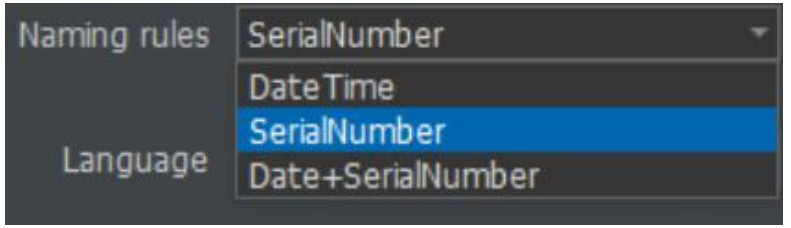


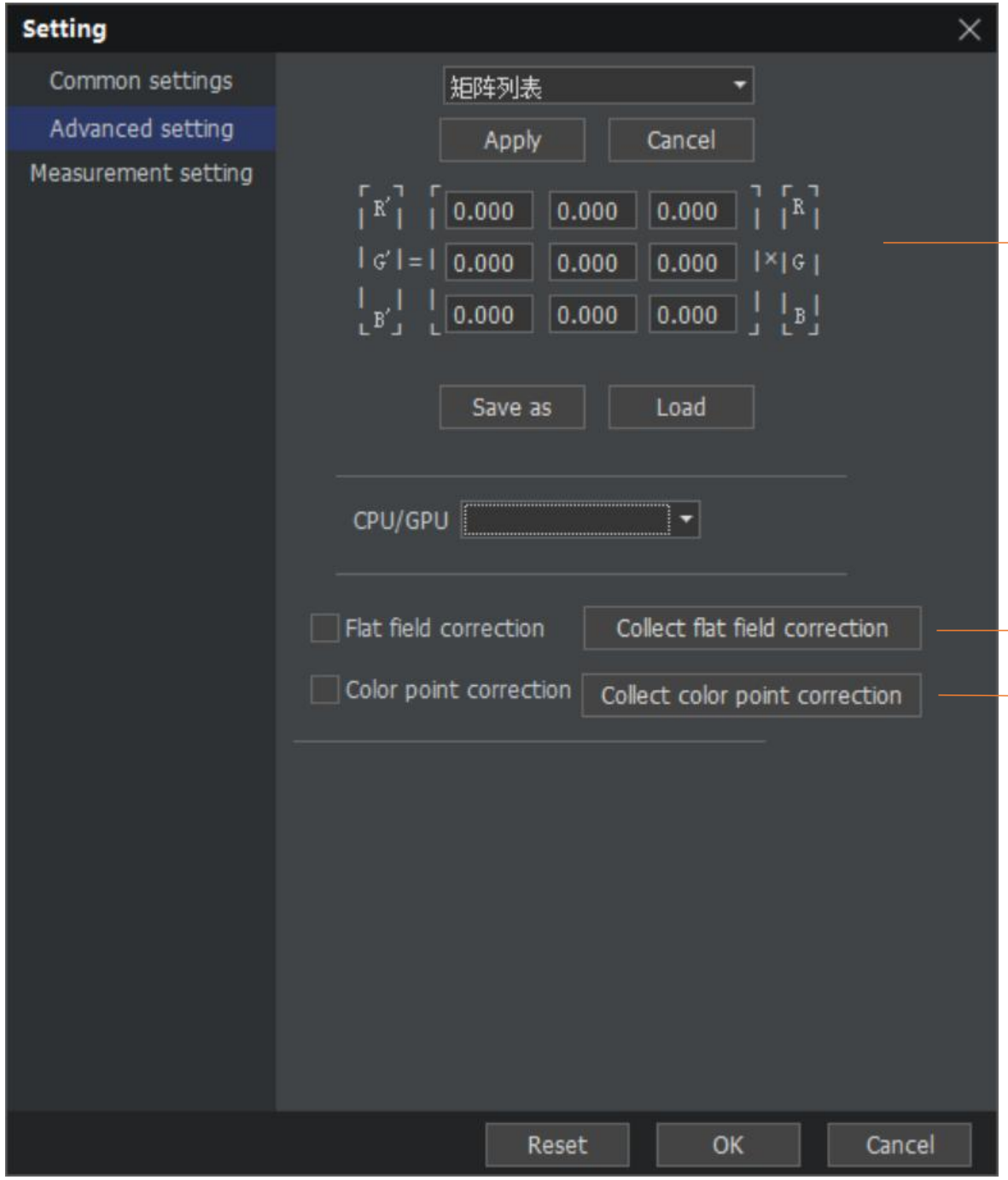
Capture image in interval time

Capture image of every frame rate in set time, such as 5s has 20fps, it will takes 20 images of every fps

Image format: jpg, tif, bmp
support 16bit color depth

Set capture image auto name rules





Correct RGB calculating value to revise color balance

Correct image brightness and color uniform when connecting camera

Eliminate image dead pixels when connecting camera