echoLAB

Data Sheet

echoIMAGE-IS Capture

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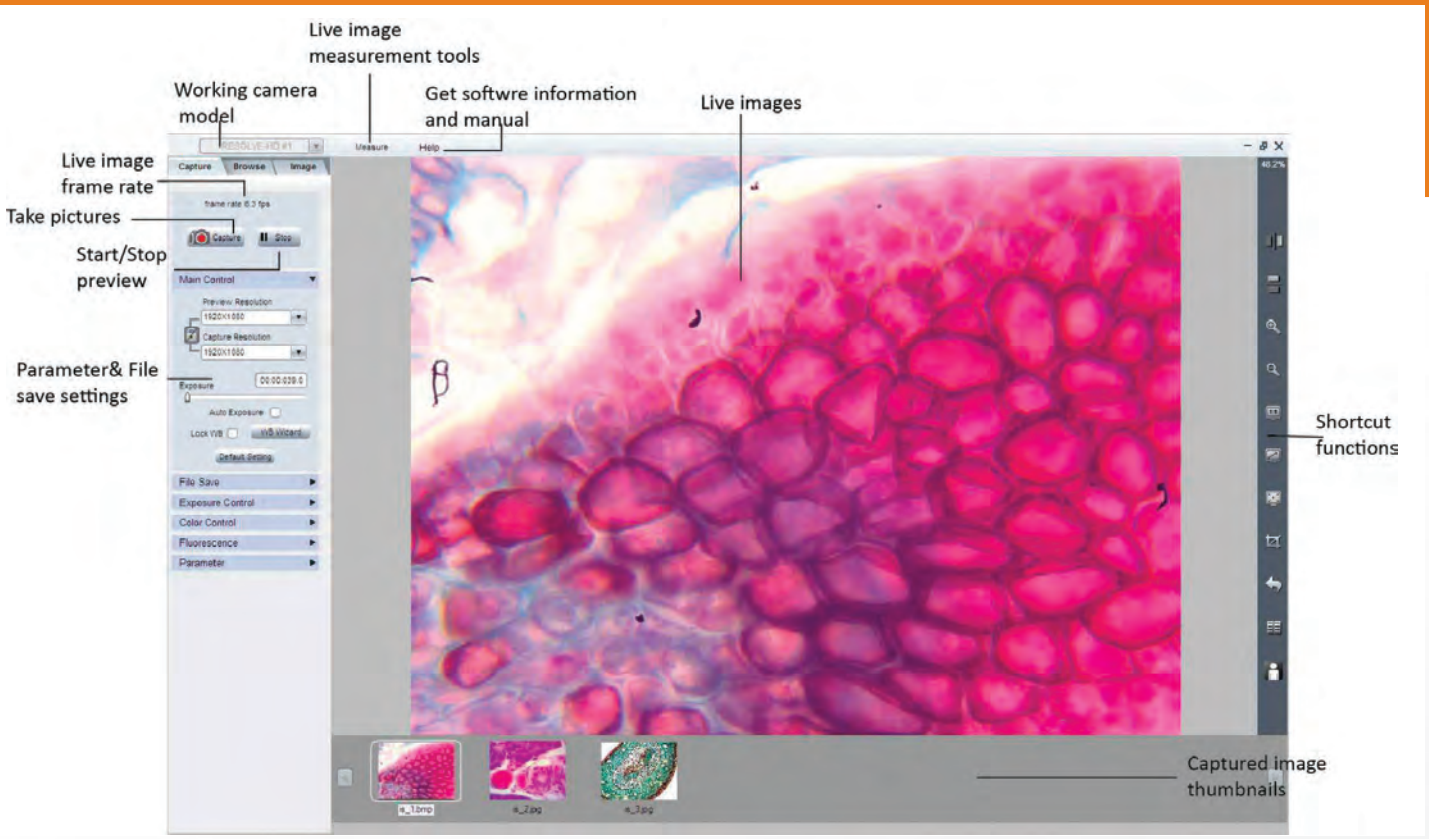
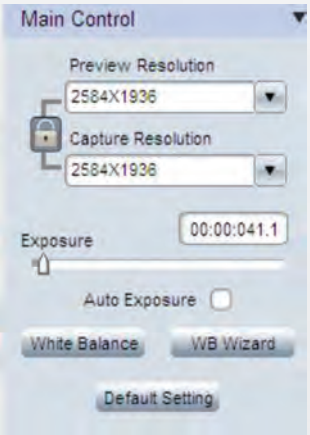
echoIMAGE-IS Capture professional imaging software application

- User-friendly interface, complete camera parameter control, advanced image processing functions, live and still image measurements provided for highly efficient workflow



echoIMAGE-IS Capture provides the full control of echoCAM:

- Exposure time
- Color control, red, green and blue channels
- Gain setting to adjust the image brightness
- White balance
- Saturation



echoIMAGE-IS Capture

echoIMAGE-IS Capture different measure processes features

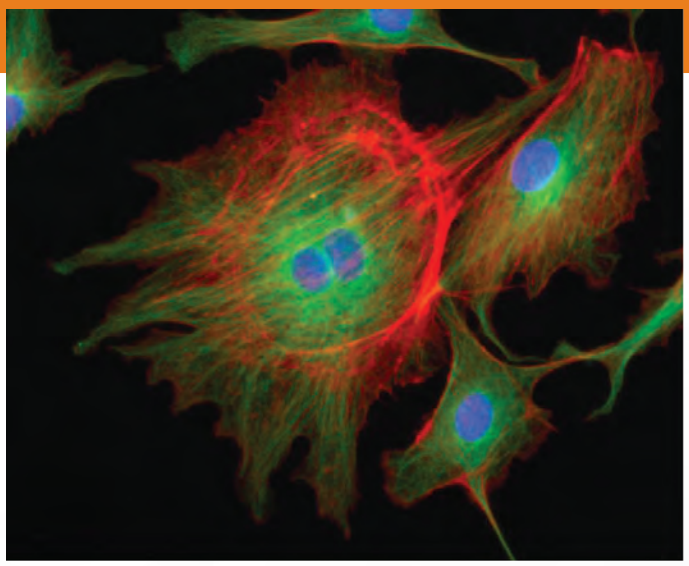
Show Scale Line	On/off the scale line on the picture.
Calibrate	Create calibration file.
Calibrate table	Available calibration file list. Allow to add, edit and delete calibration file.
Decimal	Set precision measurement. Allowed decimal range is from 0 to 7.
Measurement list	List all the measurement data.
Layer	Create a multiple layers to apply measurements and save layer information.
Delete All	Delete all the measurements and layers.
Unlock/Lock	Unlock/lock the measurement operation. Allow to do the same measurement continually when LOCKED. It is locked by DEFAULT.
Select	Select to change measurement or the measurement data position.
Line	Measure the lenght.
Parallel	Measure the distance of parallel. Allow to do multiple parallels' distance measurement. Double clicking to end parallel measurement.
Perpendicular	Measure the perpendicular length. Allow to do multiple perpendiculars' lebgth measurement. Double clicking to end perpendicular measurement.
Rectangle	Measure rectangle height, width, area and perimeter.
2-points circle	Use center point and point-on the circle to draw a circle. Give the radius, area and perimeter of circle.
3-points circle	Use 3 points on the circle to draw a circle. Give the radius, area and perimeter of circle.
Diameter circle	Draw a circle according to the diameter. Give the radius, area and perimeter of circle.
Concentric circle	Use center point and radius to draw concentric circle. Give concentric circles' radius, area and perimeter. Allow to do multiple concentric circles measurement. Double clicking to end the circles measurement.
Polyline	Measure polyline length.
Polygon	Measure polygon area and perimeter.
Arc	Measure a curve angle, radius and length.
Angle	Measure the angle.
Count	Counter. Manually count the quantity.
Annotate	Add remarks on the images.
Delete	Delete previous measurement. Select it then click on the measurement to delete it.
Cross-ruler	On or off cross-ruler on the images. The unit of the ruler depends on the applied calibration file.

echoIMAGE-IS Capture

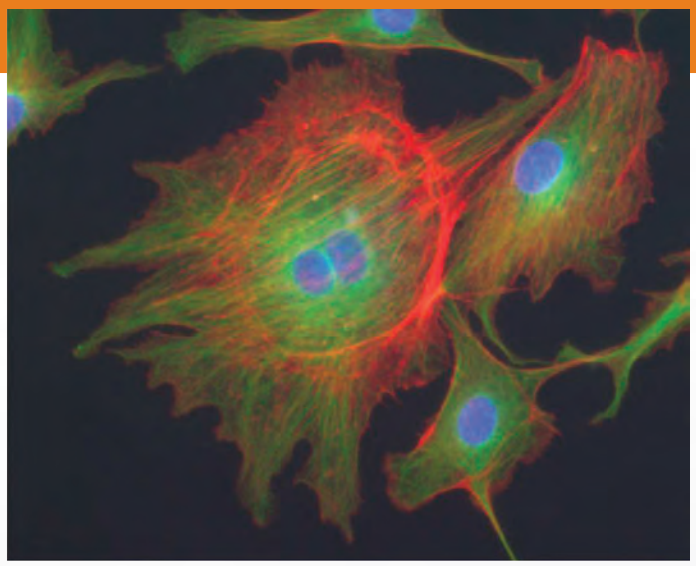
Image Processing

› Advanced image processing functions integrated into echoIMAGE-IS Capture including:
- fluorescence combination,
- high dynamic range
- focus stacking
- image stitching

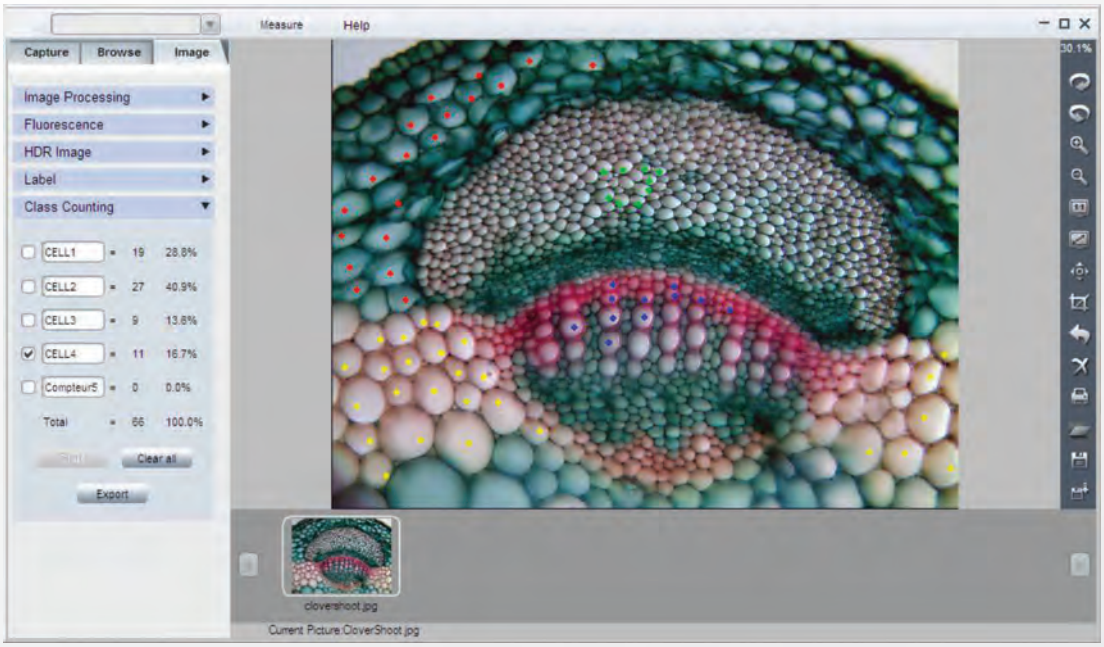
Original images



Combined image with optimization



Combined image without optimization



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