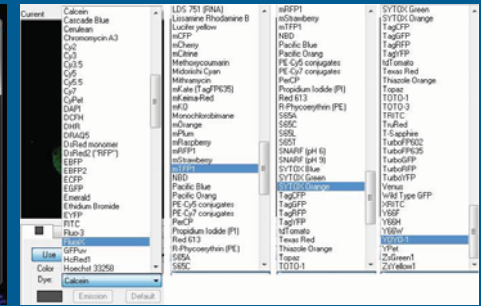
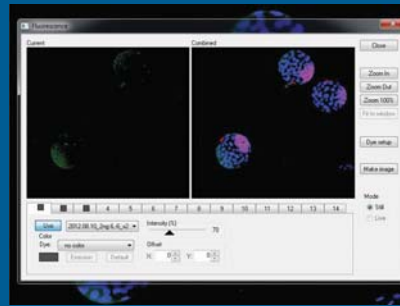
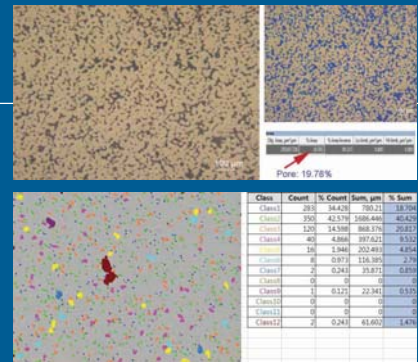


iSolution Auto plus

- ▶ 51개 자동측정 항목
- ▶ 측정 결과의 통계, 분류, 차트
- ▶ 면적 분률 자동측정
- ▶ 자동 / 수동 스레슬드
- ▶ 25개 수동측정 항목
- ▶ 최대 14개 형광 채널 합성
- ▶ 142개 형광 칼라 지원



Input Device

- 1) Direct Driver
- 2) DirectShow
- 3) Twain
- 4) Many cameras supported by SDK

Image Capture

- 1) Time Lapse Capture
- 2) Movie Recordings by AVI, MPG, MPEG, MOV
- 3) Crosshair Generation on Live Preview Window
- 4) Grid Mask on the live preview window based on calibrated scale
- 5) Measurement on live preview window

Image File Format

- jpg, jpeg, jpe, tif, tiff, bmp, gif, pcx, tga, mpg, mpeg, avi, mov, img, rpt, txt, scr, clr and etc.

Overlay

- 1) Crosshair
- 2) Grid mask
- 3) Image
- 4) Marker
- 5) Time Stamp
- 6) Measure

Save

- 1) Saving Data by TXT File Format
- 2) Saving image and the measurement data together by img File Format

Image

- Mode Change, Clone, Crop, ROI, Resize, Rotate, Split, Combine Color Plane

Image Mode Change

- Grayscale, RGB, HSB, YUV, 8bit and 16bit per Channel ROI Control

- 1) Rectangle, Arbitrary Rectangle, Ellipse, Arbitrary Ellipse, Polygon, Spline Shape, Magic Wand

- 2) Copy, Paste, Crop ROI

Combine

- 1) Split Color Plane RGB, HSB, YUV
- 2) Combine Color Plane RGB, HSB, YUV

- 3) Combine Color Images directly by Mean, RGB, Fluorescence Mask and Add Sequence Control

- 1) Play Forward and Backward
- 2) Making Movie File(mpg, avi, mov) by captured Images
- 3) Split Images from a Sequence Movie File:Mode

View

Zoom Tools

- 1) Zoom In, Out, and 100%
- 2) Zoom In Window for More Accurate Edge Detection
- 3) Zoom 10% to 1600% Fit to Window Context Window to Manipulate Several Images

Edit

- Undo, Redo, Copy, Paste, Paste New, Delete

- Delete All, Annotate, Image Information

Annotate

- Line, Polyline, Spline, Rectangle, Ellipse, Text label

Process

- Filter, BCG Control, Pseudo Color

Filter

- 1) Edge : Gradient, Kirsch, Laplas, Sobel, Variance
- 2) Enhance : Auto Brightness and Contrast, Average, Background Correction, Equalize, Median, Sharpen, Smooth
- 3) Morphology : Clean, Close, Dilate, Erode Fill Holes, Open, Split
- 4) Special : Emboss, Negative

Focus Enhancement (Extended depth of focus)

- 1) Combine Individual Partly Focused Images into a Single In-Focus Composite Image
- 2) Combine without Trace
- 3) Auto Compensating Displaced Images from Stereo Microscope
- 4) Live focus enhancement
- 5) Sub-pixel focus enhancement
- 6) Fast focus enhancement
- 7) Stereo microscope focus enhancement

Image Stitching

- 1) Perfect Auto Montage
- 2) Auto and Manual Image Stitching
- 3) Stitching without Trace and Correcting any Irregularities in Brightness

Live Image Stitching

Calibration

Calibration

- 1) Full Auto Calibration
- 2) Semi-Auto Calibration
- 3) Special Calibration X and Y
- 4) Insert Calibration Marker
- 5) Split Calibration Marker 4 and 16
- 6) Save and Open Calibration
- 7) Protection by Password
- 8) Adjust by image size

Image

- Mode Change, Clone, Crop, ROI, Resize

- Rotate, Split, Combine Color Plane

Image Mode Change

- Grayscale, RGB, HSB, YUV, 8bit and 16bit per Channel ROI Control

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- 3) Split Images from a Sequence Movie File

Manual Measurement

- 25 measurement parameters Point, Straight Line, Horizontal line, Vertical line, Width and Height, Circle by radius, Circle by N points, Circle by diameter, Best Fit Circle, Circle by 3 Points, Arc by 3 points, Rectangle, Polygon, Spline, Polyline, Angle, Angle between 2 Lines, Distance, Parallel line, Lines from common points, Irregular diameter, Auto trace, Perpendicular width measurement, perpendicular from common line, Perpendicular distance

Measurement objects

- Rectangle, Arbitrary Rectangle, Circle, Ellipse, Arbitrary Ellipse, Polygon, Spline Shape, Magic Wand, Invert objects, Separate objects, Connect objects, Disconnect objects

Auto Count and measurement

Auto Count Objects

- 1) Auto Object Detection
- 2) Edit the Counted Objects by Add, Subtract, Cut, Split, and Morphological Filters
- 3) Set the Measurement Range

Threshold

- 1) Manual threshold (Red, Green, Blue, and Gray)
- 2) Manual threshold (Hue, Saturation, Brightness)
- 3) Manual threshold(Y, U, V)

Automatic threshold

- Peaks, Entropy, Fuzzy sets, Iteration, Minimum error, Dark/Bright objects

Auto Measurement Parameters

- 51 Auto measurement parameters Area, Hole area, Perimeter, Hole perimeter, Max length, Max width, Max dimension, Average chord free, Size by X, Size by Y, Average chord X, Min chord X, Max chord X, Std Dev chord Y, Average chord Y, Min chord Y, Max chord Y, Std Dev chord Y, Min Feret Diameter, Max Feret Diameter, Average Feret Diameter, Min/Max Feret Diameter, Equal Circle Diameter, Major Ellipse Diameter, Minor Ellipse Diameter, Line Length, Line Width, Ribbon Length, Ribbon Width, Circle SF, Ellipse SF, Roundness, Roundness-ALT, Elongation, Center X, Center Y, Angle, Red Color, Green Color, Blue Color, Hue, Intensity(Min), Intensity(Max), Intensity(Mean), Intensity(Integral), Intensity(Standard Deviation), Intensity(Mode), Intensity(Median), %Area, %Hole, Convex hull

Measurement Data

- 1) Measurement Data
- 2) Statistics Data from all Parameters
- 3) Classification and Statistics for all Parameters
- 4) Export to Excel Original Image, Overlay image Measurement Data, Statistics, Classification, and Chart.
- 5) Export to customized Excel template

Advanced Function

- 1) Max 14 color channel merge ability
- 2) 142 predefined Dye color
- 3) Custom color define ability
- 4) Intensity adjustment and Offset for each color channel
- 5) Zoom In and Out preview window
- 6) Live and Still mode

Export to Excel

- 1) Export to Excel Gray Image Data
- 2) Export to Excel Overlay and Original Image Measurement Data, Statistics, Chart
- 3) Export to Excel by template

Report

Report Generator

- 1) Create Report
- 2) Insert Image and Data
- 3) Insert other OLE Objects

Window

- Split Horizontal, Split Vertical, Cascade Tile Horizontal, Tile Vertical, Arrange icons

Dynamic User Interface (UI)

- 1) Classic
- 2) Modern

Development

- Customized Modules and Application

