

Image Analysis software makes it easy to detect, categorize and report particle data.

DIPP-MACRO II

DIPP-Macro II can optimize your experiment for you. It gives you a more in-depth analysis of your sample and a better understanding of your data. You can easily filter and sort your data based on a variety of parameters.

What can MACRO II do for you?



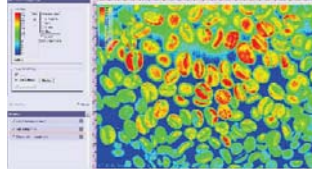
Detect blobs

Coloring and brightness labeling



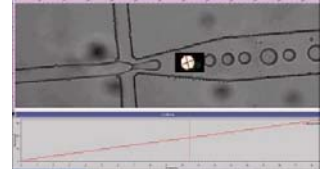
Total Count and Diameter Distribution

Binarization labeling and detailed calculation



Particle Visualization

Image emphasis processing



Time Series Analysis

Hole filling, automatic measurement and graph display

Thresholding images in DIPP Macro II is simple. The particle size analysis software will show a line graph of the color or grayscale distribution and automatically detect objects in the image. You can manually adjust the threshold if you wish.

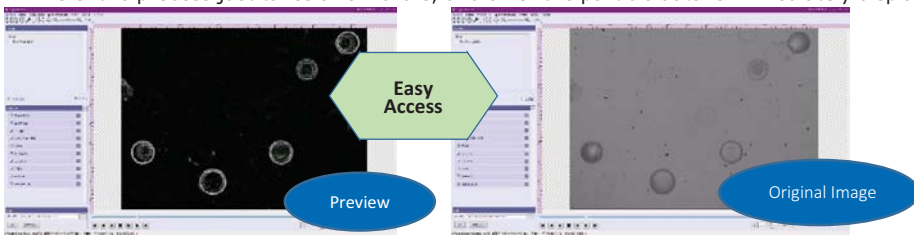
Image Processing Functions

Image Calculation	Color Adjustment	Smoothing/Noise Removal	Filter	Morphology
Make background image Multiple image calculation (Dynamic/ Static) Memory slot Read/ Write Still image	Brightness adjustment (Brightness, Contrast, Gamma) Color adjustment (Hue, Saturation, Brightness) Bayer demosaicing, Color Matrix, Grayscale Image Processing/Normalize	Smoothing Gaussian blur Bilateral filter Median filter Emboss filter	Custom filter (Custom Kernel) Sharpness Edge detector (Kirsch/ Sobel/ Roberts/ Forsen/ Prewitt/ Robinson/ Laplacian)	Dilation/ Erosion Open/ Close Top hat/ Black hat Gradient
Transformation	Binarization	Binary Image Processing	Measurement	Basic Measurement
Scaling/ Rotating/ Shifting Flip horizontal Flip vertical	By Brightness By Chroma By Hue	Delete blobs (Area, Circularity, Flattening) Hole filling Extract Outlines Thining	Particle feature measurement (Labeling/ Particle dispartion) Original and processed image overlay RGB statistics Pseudo color measurement	Length calibration Time calibration ROI setting

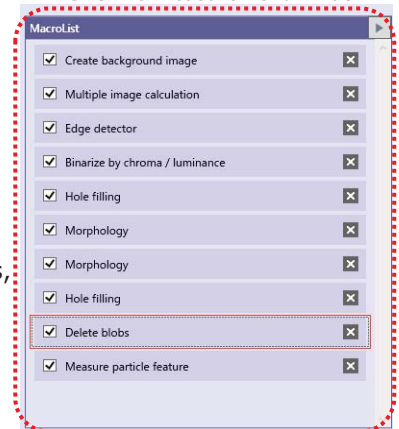
Once the thresholding step has been performed, particles may be filtered by size, shape, position and other criteria. Detailed data such as the total count, dimension, perimeter, longest diameter and feret's diameter and much more are available for each particle, immediately on the screen.

Main Features

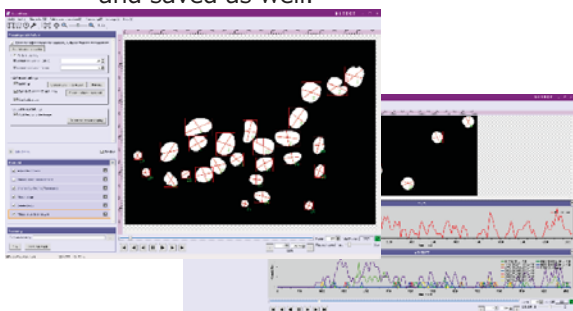
★The entire process just takes a few clicks, and all of the particle data is immediately displayed in MACRO II's measurement window.



- ★User friendly MACRO list. Quick and simple overview of process order changes, process modifications and results.
- ★Results can be exported in CSV format. Movie and graph can be displayed and saved as well.



▲MACRO list



- ▲Time series analysis
- ▲Multiple graph displays

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※Please visit our website for more detailed information about DITECT's products.