Effortless monitoring and optimisation of progress
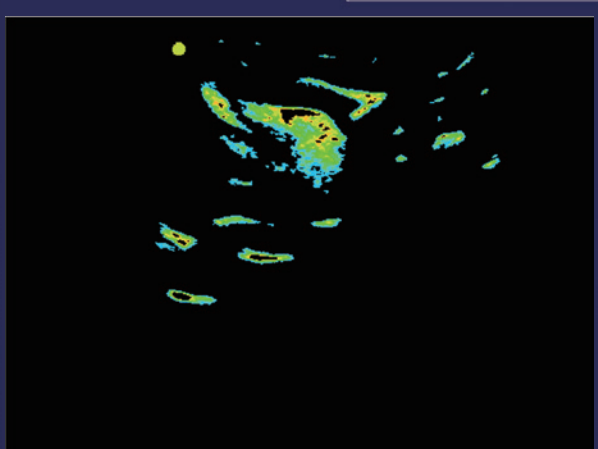
Particle Image Analysis Software

DIPP-Macro II

DIPP-Macro II is a specialised tool used to analyse and track particles or objects in digital images or videos. The software allows you to easily filter and sort your data based on a variety of parameters.
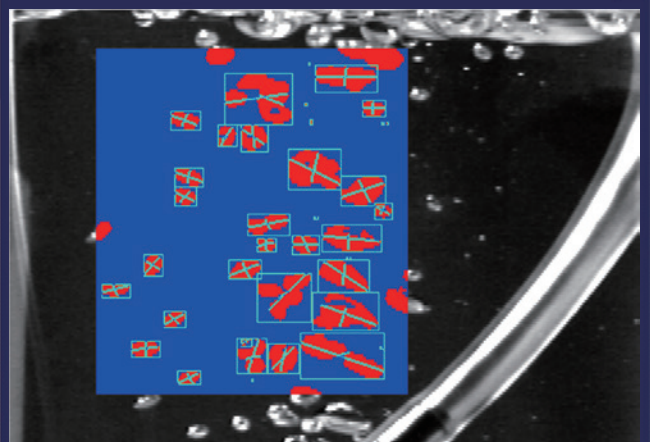
DIPP-Macro ll can optimize your experiment, providing a more in-depth analysis of your samples and a better understanding of your data.
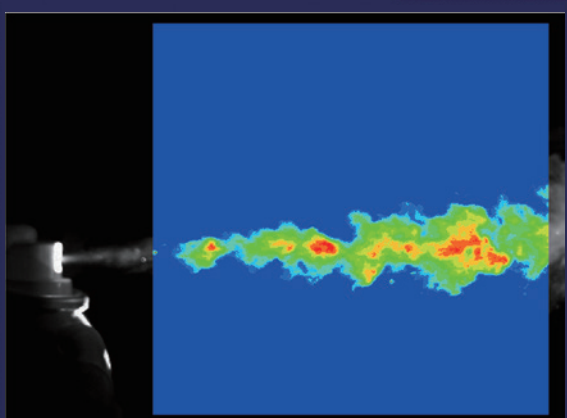
Particles detection

Pseudo colour grayscale
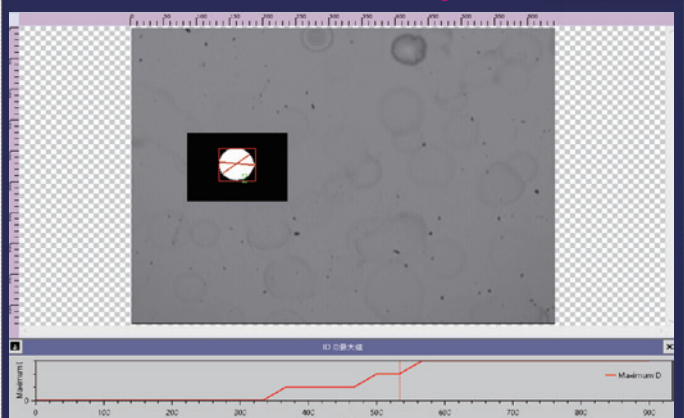
Quantity count, size measurement

Binarization and Labelling

Particles visualisation

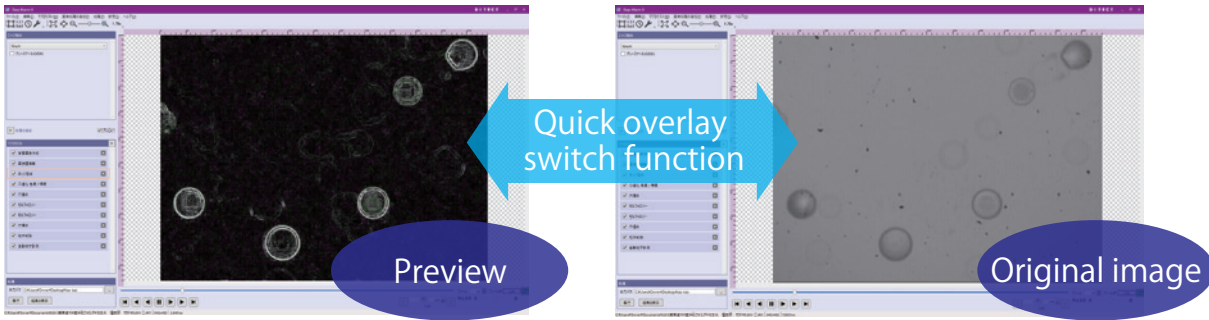Enhancement processing + Pseudo colour

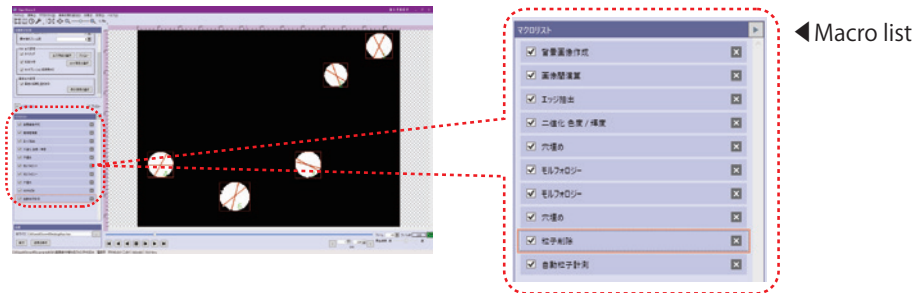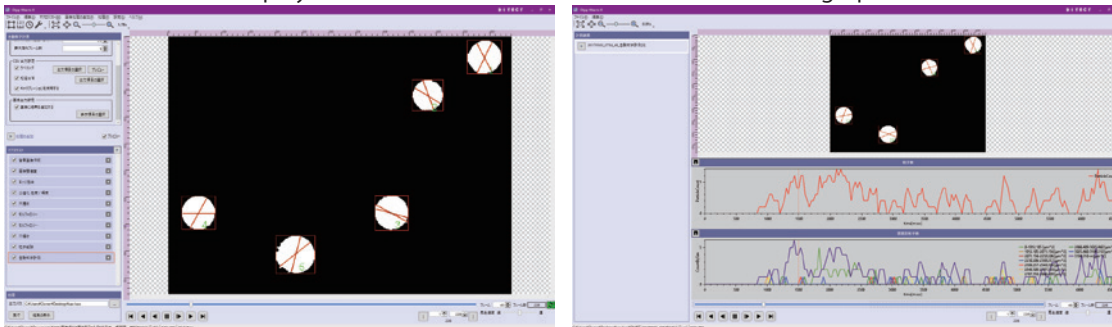## Count and time series analysis

Automated measurement and Graphing

Features

● Parameter changes are immediately reflected in the preview screen. Optimization adjustments are easy to make.

Quick overlay switch function

Preview

Original image

● User-friendly macro list. Easily reorder processing sequence, modify intermediate steps, and apply results.

◀ Macro list

● The results can be displayed and saved as CSV files as well as videos and graphs.

▲ Time series analysis, multiple graphs output

Main functions and capabilities

Inter-frame Calculation	Background Image Creation, Image Interpolation (Dynamic/Static), Files Loading
Colour Processing	Luminance Adjustment (Contrast & Gamma), Colour Adjustment (Hue, Saturation, Brightness) Bayer Demosaicking Colour Matrix Grayscale Processing / Normalization
Smoothing / Noise Reduction	Smoothing, Gaussian Blur, Bilateral Filter, Median Filter, Emboss
Filter	Custom (Matrix specified) Convex Extraction / Sharpening Edge Extraction (Canny / Sobel / Roberts / Fosen / Prewitt / Robinson / Laplacian)
Morphology	Expansion / Contraction、Opening / Closing, Top Hat / Black Hat / Gradient
Modification	Scaling, Resizing, Rotation, Move, Horizontal Flip, Vertical Flip
Binarization	Luminance Binarization, Hue Binarization, Saturation Filter
Binary Image Processing	Particle Removal (Area, Circularity, Aspect Ratio), Hole Filling, Contour Extraction Thinning
Measurement	Automatic Particle Measurement (Labelling, Particle Size Distribution), Image Overlay Output RGB Statistics Pseudo Colour Measurement
Basic Measurement Functions	Real Length Calculation, Time Calibration, ROI settings

※Specifications or appearance of this product are subject to change without prior notice.

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