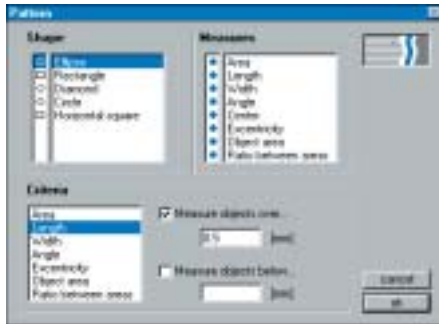


Automatic Measurement with Object Modeling

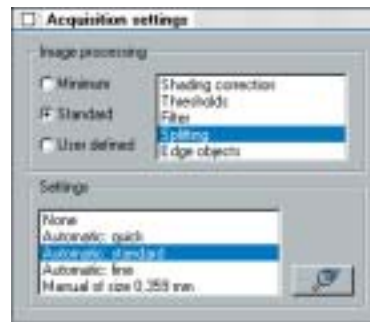


Ellix automatically recognises objects by elliptic, circular, rectangular approximation in order to determine their length, width, surface, orientation and shape factors.

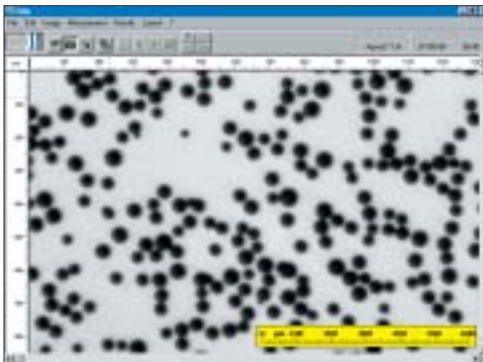


Setting the Acquisition, Processing and Separation Parameters

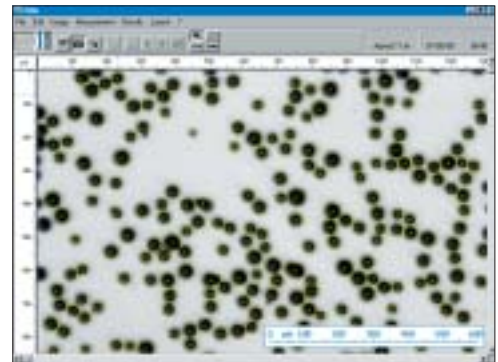
Ellix saves in files: the acquisition settings (shading correction, automatic or fixed thresholding), the image processing settings (filtering with smoothing and/or filling of the objects), and the setting of the splitting method (automatic, standard, fine or manual).



Acquisition, Processing and Measurements

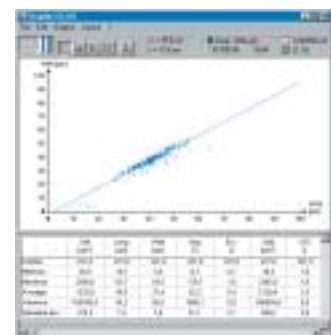
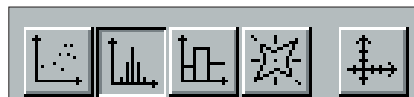
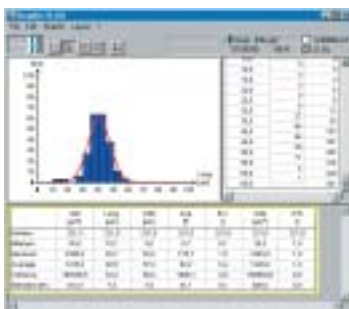


After automatically detecting and recognizing the particles, a novel algorithm automatically separates touching particles



Results

Because of the large number of measurements offered, Ellix provides a very comprehensive set of graphing tools incl: spread histogram, scatter graph and orientation diagram, the axes and scales parameters of which can all be user defined. Statistical calculations are also provided.



Optics

Microscope, macroscope, fixed focal length objective, S.E.M. with video output

Field size : 0.5 mm to 120 mm

Objects size : 0,5 μ m to 50 mm

Lighting: incident, reflected or transmitted

Video

Black and white CDD or RBG color camera

Mechanics

Control of an automatic stage (option)

Computer and Display

PC with Windows XP

High resolution display

Simultaneous display of the real digital image, the measurements and the graphs

Processing

Real-time digital zoom: 2:1, 4:1, 8:1

Correction of uneven lighting

Contrast improvement (manual and/or automatic)

Automatic thresholding, filtering and splitting of the particles

Edge correction

Measurements and Calculations

Particle counting with :

- *Area measurement*
- *Width measurement*
- *Length measurement*

Orientation and indication of a shape factor

Statistical processing (Minimum, Maximum, Mean, Standard deviation)

File and Data

Hard copies of personalized reports (option)

Result file exportable to standard applications

Saving of the images in TIFF or BMP format, JPEG compression

Printout via impact, ink jet or laser printer

Ellix efficiently complements the Granix granulometry software application.



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