



JB INSTRUMENTS PVT. LTD.
"Delivering Innovative Solutions To Life's Everyday Needs"

Biosoft

Introduction of Biosoft

Biosoft is simple image analysis software for microscopy with an intuitive user interface and simple to use navigation with a suite of image processing techniques, measurements and enhancement tools that set it apart from other mainstream softwares. Such image processing softwares are now being extensively used in a number of diverse fields such a medicine, biological research, cancer research, drug testing etc.

Biosoft

The screenshot displays the Biosoft software interface. On the left is a vertical toolbar with various icons for image processing. The main window shows a microscope image of purple-stained cells. Overlaid on the image is a data analysis panel titled 'Acicular Particles'. It includes a 'Compute' button and a table with columns: S.No, Width, Length, Area, Per. Ratio, Roundness, and Perimeter. Below the table are summary statistics: Total Acicular Particles (186), Length of Longest Particle (212.207), Length of Smallest Particle (0.469), Max Area (9484.61), Min Area (1.98), and Average Length (20.213). A 'Distribution Range' section shows a table with columns for Range, Area, Length, and %, with radio buttons for 'Area' and 'Length'. At the bottom are 'Refresh', 'Back', and 'Report' buttons.

S.No	Width	Length	Area	Per. Ratio	Roundness	Perimeter
1	4.83	3.79	19.74	21.79	2.3611	34.98
2	2.84	3.79	3.41	9.89	0.7574	25.58
3	4.69	3.81	13.90	15.28	0.8011	24.12
4	20.98	6.70	140.69	53.87	0.3911	108.78
5	13.75	6.70	90.17	35.99	2.7571	66.42
6	14.72	15.15	161.00	69.92	1.8011	123.90
7	40.88	19.00	799.70	110.65	2.7571	147.16

Total Acicular Particles: 186
Length of Longest Particle: 212.207
Length of Smallest Particle: 0.469
Max Area: 9484.61
Min Area: 1.98
Average Length: 20.213

Distribution Range

Range	Area	Length	%
1.00 To 2366	39.7		
2366 To 4732	2.87		
4732 To 7098	2.39		
7098 To 9465	0.95		

Refresh Back Report

Live Biological Microscope measurement - **Biosoft**

Threshold Particle Measurement

- Manual, Auto bright and Auto dark methods to identify intensity range defined object to be measured. Various calculation & measurements available for selected Particle are; Dimensions, Area, Perimeter, Ferrite Length, Min/Max Radius, Thread Length, Thread Width, Fiber Length, Fiber Width.

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Segmentation

- Measure area fraction & volume fraction. Identify multiple phases within Microstructure. Also delineate phases from the histogram.

Report

- Three options: Direct printout with original image processed Image & Tabular results
- Export to MS Office or Excel for further modification.

Count & Classification

- Identification of objects in an image, count them, obtain several features measurements. Objects identification by user or automatically. User defined classification on basis of size or intensity.

Image Editing

- Cut/Copy/Paste, selected copy by free hand AOL. Resize, Crop/Duplicate/restore, conversion to other format like BMP,JPG,TIF, Annotation like, free hand drawing, straight line, square, Circle, arrow, Text, highlighter etc, pointer, eraser.

View

- Zoom in/Zoom out, rotation 90°,180°,27°, horizontal flip/vertical flip, Redo/Undo, Intensity histogram.

Image Processing

- Background subtraction, contrast enhancement, boolean math, ADD,OR,XOR etc.

Routine Filters

- Invert, Brightness, Contrast, Hue, Saturation, Blur. Noise removal, Gamma RGB, etc.

Edge Detection & Morphology Function

- Lap-lacing, sobel, Kirsh, Skelotizing, pruning, histograme equalization, histogram smoothing etc.

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Measurement

- **Spatial calibration**
- **Line measurements for Distance, Length, Width, Perimeter, Angle, Three Point Radius.**
- **Area by enclosed line controlled by four arrow keys available on keyboard arrows with zoomed preview.**

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