

# Image Analysis Functions

For:

ISee PC Imaging Software

ISee MAC Imaging Software

ISee SGI Imaging Software

ISee Analytical Imaging Software provides the user with a wide array of image analysis and measurement tools for the quantification of the images and objects obtained from the acquisition and process routines. The versatility of ISee Analytical Imaging Software allows the user to analyze the entire image, regions of interest within an image, and entire stacks of images. The user can select to perform the analysis routines after the images have been acquire or in real time as the images are being acquired and processed. The results obtained from the analysis functions can be displayed in histogram plots, text tables, and saved as ASCII formatted files.

## Image Analysis Functions include:

- Automatic / Free-Hand Distance Measurements
- Centroid Computation
- Distance and Densitometric Calibration
- Object Sorting and Classification
- Object Counting (Autoradiography)
- Real Time Brightness Measurements
- Distribution Analysis Based Upon:
  - Size
  - Shape
  - Density
- Interactive Line Intensity Measurements
- 2D and 3D Volumetric Measurements
- Feature Analysis Parameters including:

|                   |                  |
|-------------------|------------------|
| ▸ N. Hole         | ▸ N. Pixel       |
| ▸ Center X        | ▸ Center Y       |
| ▸ Area            | ▸ Box Area       |
| ▸ Box Width       | ▸ Box Height     |
| ▸ Center Box X    | ▸ Center Box Y   |
| ▸ Area Box Ratio  | ▸ Hole Percent   |
| ▸ Hole Area       | ▸ Total Area     |
| ▸ Angle           | ▸ Axial Ratio    |
| ▸ Major Length    | ▸ Minor Length   |
| ▸ Perimeter       | ▸ Hole Perimeter |
| ▸ Total Perimeter | ▸ Ppda           |
| ▸ Mean Radius     | ▸ Var. Radius    |
| ▸ Min. Radius     | ▸ Max. Radius    |
| ▸ Min Rad Angle   | ▸ Max Rad Angle  |
| ▸ Max Min Angle   | ▸ Max Min Ratio  |
| ▸ Roundness       |                  |
- Object Mapping for:
  - Position
  - Distance
  - Angle

