Comprehensive image-analysis tools for a wide range of applications

Archeology
Collect forensic measurements easily and accurately from photographs of image files.

Biography
Obtains diagnosis from disease-bearing leaf color measurements.

Electrical Engineering
Printed circuit board design, analysis and annotation is simplified from a photo or scanned image. Exact positions and connections are easy to measure.

Electron Microscopy
Obtains accurate size and area measurements from indirect input of detailed structures.

Chemistry
Measure particle size and shape from microscopic slides or micrographs. Here, the size-diameter is found with TableCurve 2D to obtain an exact curve fit.

Aerial/Satellite Photography
Accurately determine area or dimensions from photographs, and highlights specific areas such as roads and geography.

Powerful image analysis for your PC

Systat Software, Inc. offers a wide range of software solutions for scientists and engineers

**Systat**
- Unparalleled research-quality statistics
- Easy signal analysis
- Automated equation discovery and curve fitting
- SigmaPlot: Portable data analysis companion to SigmaPlot
- SigmaScan: Portable image analysis companion to SigmaScan
- TableCurve 2D and 3D: Automated equation discovery and curve fitting
- AutoSignal: Easy signal analysis

Visit us at [www.systat.com](http://www.systat.com)

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Easily count, measure and analyze your digital images

SigmaScan Pro provides a complete image-analysis package for studying the structure and size of visual information. SigmaScan Pro’s powerful image analysis, enhancement and expert manipulation techniques transform images into reliable statistics, understandable graphs and valuable scientific conclusions.

**Powerful measurement tools**
Choose from 50 powerful mathematical transforms to measure the image objects as you mark them with points, lines or areas for instant analysis.

For automated highlighting of image objects, use light density or color selection from the analysis histogram. SigmaScan Pro’s powerful edge and line tracking option automatically traces the edge of an object and collects running measurements, so you save time marking the desired items. And, to automate repetitive tasks, use SigmaScan Pro’s built-in Keyboard Macro Recorder.

With SigmaScan Pro, you can automatically count, label, and measure up to 64,000 objects at a time. You can also collect area, perimeter, slope, major or minor axis, shape factor, angles and many other measurements simultaneously.

**Improve images with sophisticated filtering**
SigmaScan Pro’s many image-enhancement tools make it easy to clean up and improve your digital images. You can remove noise or sharpen contrast with the built-in filters (convolution, ranking, histogram remapping) for better clarity.

Use Image Math to remove noise and highlight features by adding, subtracting or averaging the pixel intensities of different images. With Lookup Tables, you can add color patterns to your monochrome images or convert color images to grayscale.

SigmaScan Pro also includes image processing procedures, such as deaffield equalization, pseudo-color and binary filters to clearly define image highlights.

**Easily manipulate and annotate your images**
SigmaScan Pro’s four non-destructive overlay layers let you mark, zoom, pan, paint, draw, mask, rotate, flip, annotate or define measurement parameters for specific features. The drawing tools, including text, boxes, grids, ovals and rectangles, are easy to use. Simply choose all tools from the floating Annotation Toolbar.

To help easily identify image objects, SigmaScan Pro labels each object either directly on screen or in the status bar. In further analysis, objects and their corresponding measurements, use Object Number Reporting, picking out unwanted image objects from the spreadsheet. One mouse click cleans up your measurements, use Object Number Reporting, picking out unwanted image objects from the spreadsheet. One mouse click cleans up your measurements, removes unwanted objects and measurements. And, to ensure accurate analysis, the spatial and intensity calibration information transfers between images.

**Develop solid conclusions with advanced data analytical capabilities**
SigmaScan Pro enables you to program your own enhancements, transforms and calculations to concentrate operations, speed repetitive tasks and create specialized analysis transforms. In addition, the built-in graphing capabilities let you plot your data quickly, so you can easily see your conclusions.

And for more in-depth graphing and statistical analysis, all spreadsheet data are compatible with both SigmaPlot and SigmaStat.

**An imaging task: from start to finish with SigmaScan Pro**

**STEP 1** Open the image or capture it

**STEP 2** Enhance the image quality

**STEP 3** Calibrate the distance with the measurement tool

**STEP 4** Select the desired measurement tools

**STEP 5** Your results are automatically marked on the screen and collected in the spreadsheet

**STEP 6** Use the columns statistics and graphing capabilities to turn data into conclusions.