PSI-Plot Version 10.5

Best Seller since 1992

Win XP/Vista/Win7

Scientific Graphics, Data Processing, and Numerical Analysis

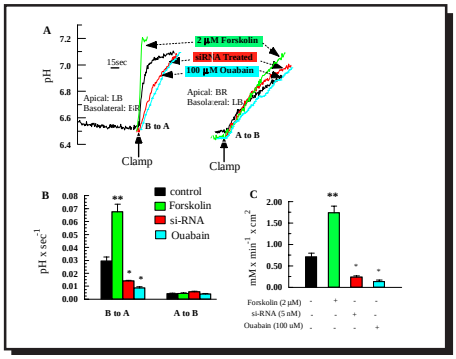
Since its first release in September 1992, more than 78,000 scientists and engineers have chosen **PSI-Plot** as their numerical and plotting tool. Now, version 10.5 enhances the excellent program and establishes a new standard for scientific software. No other software on the market offers you so much. With the surpassing power and the user friendly interface, **PSI-Plot** is definitely the ultimate solution for numerical analysis and technical graphics.

"(PSI-Plot) is pleasant to use, and offers a very high degree of flexibility and sophistication, without generating any of the computational insomnia that is so often associated with complex software products on the market. **Strongly recommended**."

— Heinz K. Henisch,
Materials Research Bulletin

"In comparison to its biggest competitor in the technical plotting market, *SigmaPlot*, PSI-Plot comes out as the best value for everyday work. While both offer a large variety of 2D and 3D plot types, PSI-Plot is less expensive, runs faster, offers more extensive statistical analysis capabilities, and is less demanding of the host computer in terms of CPU power, RAM, and hard disk space."

— Bradley Seebach,
The Quarterly Review of Biology

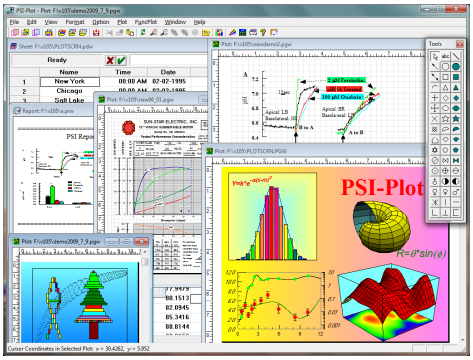


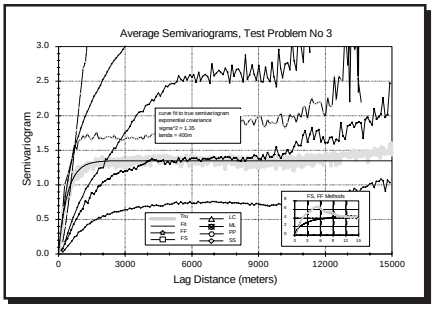
"The program is great! There is an excellent attempt to take the best aspects of several programs, such as Origin, SigmaPlot and Slide Write Plus without getting too lost in options and complexity."

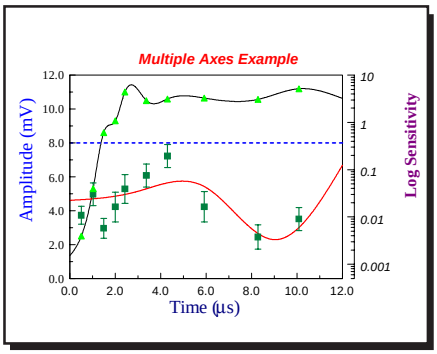
— Dr. Bernard E. McCarey,
Emory University

"It is the easiest to use that I've ever met. I've used AXUM, STATGRAH, DGRAPH, and some others, PSI-Plot wins."

— Dr. J.S. Muirhead-Gould,
Walsh College

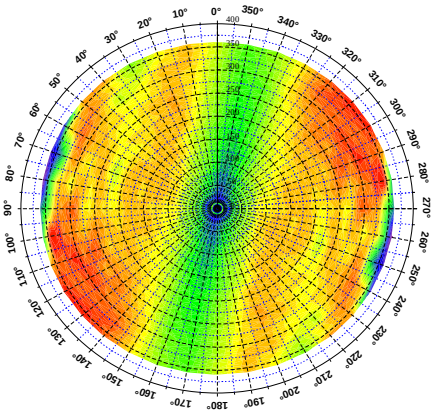






PSI-Plot Offers:

- powerful scientific spreadsheet
- easy to learn, easy to use with step-by-step guided tutorial lessons
- data interpolation and curve fitting
- experimental model builder
- multiple and stepwise regression
- logistic regression
- descriptive statistics, t-test, F-test
- algebraic equation solver
- differential equation solver
- difference equation solver
- matrix and eigen system
- FFT and digital signal processing
- special coordinate systems: polar, Smith, ternary, Nichols,...
- spectacular 2D and 3D graphics
- powerful graphics editing tool
- embedding graphs in MS Word and PowerPoint
- superior publication quality output



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30-Day Money Back Guarantee !!!

System requirements

- Windows 95/98/ME/2000/XP/Vista/Win 7

Documentation

- Well-written users' handbook
- Online help system

Technical support

- Unlimited free technical support to all registered customers

PSI-Plot Features List ☞

PSI-Plot Features List

Advanced Data Analysis

Data management

- 1,048,576 rows by 1024 columns
- WYSIWYG data sheet preview
- full data block-editing options: cut, copy, paste, delete, clear, insert, and undo
- supporting numbers, ASCII text, date, time
- data generation: random, algebraic, geometric, and user-defined functions
- text editing window for calculated results and reports
- IEEE numerics
- handling of missing data
- data sieving, ranking, sorting, trimming, normalizing, differencing, combining, splitting, summation, and frequency counting
- built-in calculator
- user-defined hot keys

Data import and export

- import: keyboard, ASCII, CSV, Excel, Lotus, dBase, DIF, Wave, and Quattro Pro
- export: ASCII , Excel, Lotus, and dBase

Interpolation and regression

- interpolation: polynomial, rational, spline, and Stineman
- four different methods for linear regression: LSQ, robust, Deming, and Passing-Bablok
- regression: over 100 predefined models.
- maximum likelihood estimation of generalized linear models (GML)
- logistic and Poisson regressions
- dose-response analysis: LD50,EC50,...
- Weibull analysis.

Nonlinear curve fitting

- three robust fitting methods: Levenberg-Marquardt, Powell, and simplex
- user-defined fitting: nonlinear model with up to 50 variables and 50 equations
- weighting factors and data ranges
- parameter statistics: covariance matrix, standard error, standard deviation, goodness-of-fit statistics, and confidence and prediction intervals

Algebraic equation solver (root finder)

- six different numerical methods include bisection and Newton-Raphson
- searching for multiple roots

Difference equation solver

- equations up to 3 dimensions

Ordinary differential equation solver

- nine different numerical methods
- user-specified error control
- model up to 50 equations
- built-in model template

Matrix manipulation

- basic manipulation: determinant, trace, addition, subtraction, matrix products and vector products
- inversion, transposition, transformation
- calculation of eigen values and vectors
- matrix decomposition
- linear equations solver

Statistics

- descriptive statistics
- *t*-test, multiple *t*-test, *F*-test
- one- and two-way ANOVA
- nonparametric test: chi-sq and sign tests
- Kaplan-Meier survival estimates

Digital signal processing

- data smoothing: Lanczos, moving window, Savitzky–Golay, Gram, and averaging
- digital data filtering : IIR (infinite impulse response) and Butterworth filters
- FFT (real & complex) and power spectrum
- singular spectrum analysis
- Wavelet transform
- data windowing: square, Bartlett, Hanning, Hamming, Blackman, Welch, and Parzen

Math transformation

- predefined functions: all standard math functions and many extras
- user-defined functions: any combination of predefined functions and operators
- one-line and multiple lines models

Miscellaneous Tools

- user-defined macro
- numerical differentiation
- numerical integration of user-defined function or numerical data

Publication Quality Plot

Plot editor

- full-page WYSIWYG graphics editor
- full featured OLE 2.0 implementation
- embedding plots in word processors and PowerPoint
- editable configuration for plotting objects
- optional on-screen rulers in either metric or English units
- optional page guidelines and grid lines
- editing tools: copy, cut, paste, undo; group, ungroup; zoom, unzoom; alignment
- drawing toolbox: commonly used shapes, and text
- 32 accurate symbols
- user-controllable line size, style, and color
- interactive curve fitting
- calculate area under a curve
- data inspection: verification of data point along a curve
- moving, resizing, and rotation
- multiple curves in one graph
- multiple graphs in one page
- user-designed background patterns for slide presentations
- saving plot attributes as a template for routine work
- batch plotting and batch printing
- real-time plotting
- dynamic link of plot and data
- smart status report for cursor position, coordinates, and data information
- publication quality output on printers
- exportation to most popular graphics formats: Postscript, EPS, WMF, EMF, JPG, PDF, TIFF, GIF, BMP, and PNG

Plot types

- 2D curve: scatter, line, drop-line, polar, and vertical/horizontal error bars
- user-defined plot: different symbol color, style, size, and label for each data point
- 2D pie chart
- 2D bar: horizontal/vertical bar charts with error bars, stack bars, and grouped bars
- 2D special: open/closed area, vector, step, stock, column, floating columns, ternary, Smith, Nichols, boxplot, hi-lo, histogram, Pareto, quality control, and tableau plots
- 3D plot axis: linear, reciprocal, log, decibel, probability, logit, and probit
- 3D curve: scatter, line, vector, drop line, and projection
- 3D bars, stack bars, and 3D histograms
- 3D surface with/without contours
- automatic label on contours
- multiple surfaces and curves
- function plot: 2D curves, 3D curves, and 3D surfaces

Axis types and labels

- linear, reciprocal, log, ln, log(log), logit, 10 base, decibel, BER, probability, probit, percent, currency, day, month, date, date-time, and text
- axis breaking
- optional arrowhead, major/minor tick mark, and prefix and suffix text for tick labels
- reverse axis scale, flip axis
- background patterns for axes frame
- multiple axes with independent scales
- user-controllable grid-line style, size, and color
- automatic or manual labeling
- any angle rotation of axis labels

Error bars and confidence intervals

- automatic or user-defined error-bar values
- vertical and horizontal error bars
- mean, standard deviation, standard error, median, quartile, and percentiles
- any percentage value confidence and prediction intervals for fitted curve

Coordinate system

- Cartesian (2D and 3D), Smith, Nichols, polar, ternary, spherical, and cylindrical

Annotations

- easy-to-use legend editor
- text tool for annotation: text sizing and rotation
- creation of equations including symbols, superscripts, and subscripts
- alignment of text and graphics objects