

Best Seller since 1992

PSI-Plot

Version 7

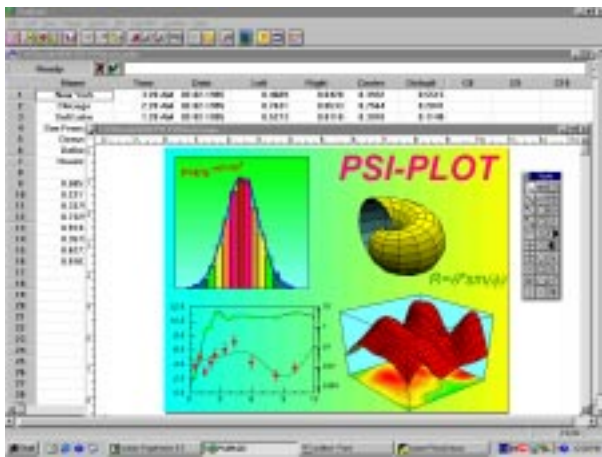
Win 95/98/ME/NT/2000/XP

Scientific Graphics, Data Processing, and Numerical Analysis

Since its first release in September 1992, more than **60,000** scientists and engineers have chosen **PSI-Plot** as their numerical and plotting tool. Now, version 7 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 Offers:

- powerful scientific spreadsheet
- user friendly interface: easy to learn, easy to use
- data management over 100 million data points
- a wide range of numerical techniques
- data interpolation and curve fitting
- experimental model builder
- descriptive statistics, t-test, F-test, nonparametric
- algebraic equation solver (root finder)
- differential equation solver (ODE)
- difference equation solver (function mapping)
- matrix manipulation and eigen system
- FFT and digital signal processing
- special coordinate systems: polar, Smith, ternary, ...
- spectacular 2D and 3D graphics
- object oriented graphics editing tool
- impressive slide presentation
- superior publication quality output



“TechPlot (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*

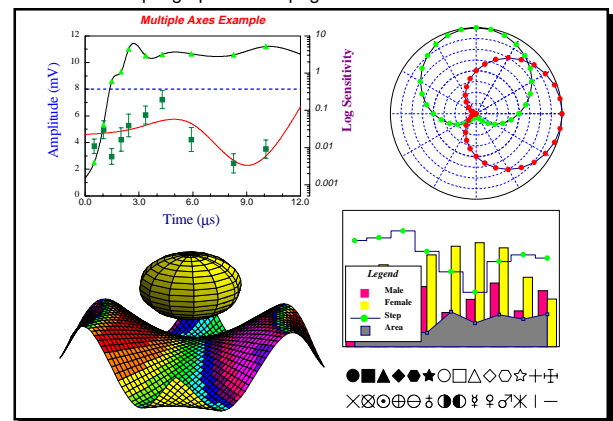
“It is the easiest to use that I’ve ever met. I’ve used AXUM, STATGRAH, DGRAPH, and some others, PSI-Plot wins.”

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

“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*

Multiple graphs in one page --- created with PSI-Plot



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**30-Day Money Back
Guarantee !!!**

System requirements

• Win 95/98/ME/NT/2000/XP

Price

- Introductory price: \$299
- Shipping charge: \$8 in USA and Canada; \$30 elsewhere

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

- 131,072 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, summation, and frequency counting
- built-in calculator
- user-defined hot keys

Data import and export

- import: keyboard, ASCII, Lotus, dBase, DIF, Excel, and Quattro Pro
- drag-and-drop with automatic file format detection
- export: ASCII, Lotus, dBase, DIF, and Excel

Interpolation and regression

- interpolation: polynomial, rational, spline, and Stineman
- regression: linear, exponential, power, spline, polynomial, decay, logistic, hyperbola, Boltzman, Lorentian, Gaussian, Weibull, and comparing two lines

Nonlinear curve fitting

- 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
- user-specified variable ranges
- searching for multiple roots

Difference equation solver

- equations up to 3 dimensions
- user specified iteration number
- pre-iteration option

Ordinary differential equation solver

- nine different numerical methods for stiff and nonstiff problems
- user-specified error control
- model up to 50 equations
- built-in model template

Matrix manipulation

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

Statistics

- descriptive statistics
- t -test, multiple t -test, F -test
- one- and two-way ANOVA
- nonparametric test: chi-sq and sign tests

Digital signal processing

- data smoothing: Lanczos, moving window, Savitzky–Golay, Gram, and averaging
- digital data filtering: notch, band-pass, low-pass, and high-pass
- FFT and power spectrum
- Wavelet transform
- data windowing: square, Bartlett, Hanning, Hamming, Blackman, Welch, and Parzen windows

Math transformation

- predefined functions: all standard math functions
- user-defined functions: any combination of predefined functions using ‘ +, -, *, /, ^ ’ operators

Miscellaneous Tools

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

Publication Quality Plot

Plot editor

- full-page WYSIWYG graphics editing mode
- full featured OLE 2.0 implementation: server/client
- dynamic link of plot and data
- editable configuration for plotting objects
- optional on-screen rulers in either metric or English units
- optional page guidelines
- editing tools: copy, cut, paste, undo; group, ungroup; zoom, and unzoom
- drawing toolbox: commonly used shapes, and text
- 28 accurate symbols
- user-controllable line size, style, and color
- data inspection: verification of data point along a curve
- moving, resizing, and rotation
- 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

- exportation to most popular graphics formats: EPS, PCX, CGM, JPG, HPGL, TIFF, WPG, DXF, BMP, GIF, MAC, WMF, PIC, and MacDraw

Plot types

- 2D curve: scatter, line, drop-line, polar, and vertical/horizontal error bars
- user-defined plot: different symbol color, style, size, and text label for each data point
- 2D pie chart
- 2D bar: horizontal/vertical bar charts with error bars, vertical/horizontal stack bars
- 2D special: open/closed area, vector, step, candle stick, column, ternary, Smith, box, hi-lo, histogram, Pareto and quality control
- 3D plot: linear and log scales
- 3D curve: scatter, line, vector, drop line, and projection
- 3D bar and 3D histograms
- 3D surface
- automatic label on contours
- multiple surfaces and curves
- function plot: 2D curves, 3D curves, and 3D surfaces

Axis types and labels

- linear, reciprocal, log decimal, log exponential, ln, log(log), logit, 10 base, probability, probit, day, month, date, and text
- axis breaking
- optional arrowhead and major/minor tick mark
- automatic or user-defined axis ranges and increments
- reverse axis scale, flip axis
- user-designed 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
- simultaneous vertical and horizontal error bars
- mean, standard deviation, standard error, median, quartile, and percentiles
- any percentage value confidence and prediction intervals for nonlinear curve fitting

Coordinate system

- Cartesian (2D and 3D), Smith, 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