

# PSI-Plot ver 9.5 *Win XP/Vista/Win 7*

## New Features Highlights

- The new program is fully compatible with the Microsoft Windows 7 operating system and the earlier versions of Microsoft Windows.
- New built-in mathematical functions include log-factorial, complementary log-log, inversion of complementary log-log, Bessel functions, modified Bessel functions, Dawson function, and exponential integral.
- New matrix manipulation methods include lower and upper triangular (LU) decomposition, QR decomposition, singular value decomposition (SVD), and matrix linear equations.
- New maximum likelihood estimations for generalized linear models (GLM) with observed data following normal, Poisson, and binomial error distribution.
- Improved Poisson and logistic data-fitting methods and results reports.
- Enhanced macro capabilities for recording and duplicating repeated procedures.
- Enhanced boundary condition calculations for data differential and data integral with clamped spline interpolating option.
- Enhanced data-fitting routines automatically handle missing data points and improve results reports.
- New maximum likelihood method for the calculation of LD/LC and confidence intervals at any desired probability level (such as LD25, LD50, LD70 etc).
- Enhanced data importation avoids duplicated names for data merges and allows user-specified delimiter options.
- New data format supporting times with fractional seconds.
- Enhanced data management for data ranking, normalization, column separation, column combination, and column statistics.
- Enhanced data transformation with automatic updates of multiple-level transformed data.
- New batch export function allows users to export PSI graphics files into other graphics formats with greater time efficiency.
- Enhanced batch plot capability for 3D surface and contour plots.
- Many new plot types: 3D bar charts with error bars, 3D stacked bar charts, polar bar charts, polar stacked bar charts, and polar bar charts with error bars.
- New 3D rotation feature allows users to rotate a 3D plot in three independent directions automatically.
- New customized time stamp allows users to define their own time stamp for their plots.
- New expanded capability that supports up to 50 curves in a 2D or 3D plot.
- Enhanced 3D surface and contour plot algorithm.
- Enhanced polar plot and legend generation.
- Enhanced bar charts and surface format editing allows users to load pre-defined fill patterns and colors for the existing plot.
- New printed User Guide with over 300 pages.

### **Key Features Introduced in Version 9 Included in Version 9.5**

- The new fully functional report windows offer more flexible ways to edit mathematical and statistical manipulation results.
- The new project environment links data sheets, plot windows, and report windows together to provide a more efficient way to manage your research projects.
- The new program comes with a new powerful macro feature that allows you to record your data sheet operation for repeated procedures.
- New real-time plotting allows you to connect your edited plots with a dynamic data source.
- The new menu with graphics icon presentation provides more intuitive ways to navigate the new programs.