

FitAll v9

Specifications and Features

Feature	Evaluation Edition	Personal Edition	Research Edition
Includes Basic FitAll Function Library .	With Major Limitations	Y	Y
Includes Binding Curves FitAll Function Library	N	N	Y
Includes Peaks FitAll Function Library	N	N	Y
Includes Chemistry FitAll Function Library NEW in Version 9 Added more than two dozen functions for the titration of strong and weak acids with a strong base.	N	N	Y
Includes Solar Cell FitAll Function Library	N	N	Y
Includes User Requested Functions FitAll Function Library	N	N	Y
New Tab-based user interface, UI. (NEW in Version 8)	Y	Y	Y
Solar Cell functions modified to make it easier to analyze cell-string and module data.	N	N	Y
NEW in Version 8 & 9 Additional functions added to the <i>FitAll</i> 's API. This makes it easier for programmers to add more complex functions.	N	N	Y
Supports MS Windows 10 (NEW in Version 9)	Y	Y	Y
All data and graph titles and labels are Unicode -enabled. This means that the text can be in any language and can contain a wide assortment of mathematical and technical symbols.	Y	Y	Y
All data files are automatically saved in UTF-8 format if the data contains non-ASCII characters, otherwise it is saved in ASCII / ANSI format.	Y	Y	Y
NEW in Version 9 LibreOffice Writer , OpenOffice Writer, as well as MS Word, reports can be created. (Note: LibreOffice is a free, open-source suite of office applications available from www.libreoffice.org .	Y	Y	Y
User defined FitAll Function Libraries can be loaded and used by FitAll Personal Edition to analyze data.	N	Y	Y
Acts as an ActiveX (COM / Automation) server that can be controlled by other programs, such as data acquisition systems, written in C, Delphi, LabView, Visual Basic, etc.	N	N	Y
Includes an example program (FaClient), with source code, that demonstrates how to control <i>FitAll</i> from another application.	N	N	Y
Includes an option (menu item) to check for updates. This makes it easier for you to ensure that your copy of <i>FitAll</i> is up to date.	N	Y	Y
By default, installs into a directory that allows all users to run <i>FitAll</i> , although the install must still be done by a user that has "administrator" rights. This eliminates some Windows Vista and Windows 7, 8 & 10 "security" issues.	Y	Y	Y
Can use MS Word, LibreOffice and OOo Writer to create reports.	Y	Y	Y
Can append results to an open MS Word, LibreOffice or OOo Writer document. [This is a great way to record the results of many analyses in one document].	Y	Y	Y
Maximum number of data points in a data set	10	100	2 million

Feature	Evaluation Edition	Personal Edition	Research Edition
Number of functions that can be used to do regression analyses. [Many of the functions have more than one form or variation].	7	24	> 100
Maximum number of data columns	128	128	128
Maximum number of independent variables in a function definition.	126	126	126
Maximum number of parameters in a function definition.	126	126	126
Maximum number of constants in a function definition.	126	126	126
Maximum number of "function variation selectors" in a function definition.	126	126	126
Can smooth data using Boxcar averaging.	Y	Y	Y
Can smooth data using FFT low pass filtering.	Y	Y	Y
Generates calibration graphs and tables.	Y	Y	Y
Analyzes data using nonlinear least squares method (nls)	Y	Y	Y
Analyzes data using nonlinear least absolute deviations method (nlad).	Y	Y	Y
Analyzes data using linear least squares method (lls).	Y	Y	Y
Can weight the data during the regression analysis.	Y	Y	Y
Lets you limit (constrain) parameter values during the nls or nlad regression analysis.	Y	Y	Y
Plots two dimensional graphs of the data, the fit, the residuals, the residuals distribution and the parameter sensitivities.	Y	Y	Y
Calculates non-parametric statistics.	Y	Y	Y
Creates tables containing the data, the fit, the residuals, the residuals distribution and the parameter sensitivities.	Y	Y	Y
Plots the independent variable, X, on either the horizontal or vertical axis.	Y	Y	Y
Prints all tables and graphs.	Y	Y	Y
Saves graphs to disk as *.bmp, *.emf, *.gif, *.jpg, *.png and *.wmf files.	Y	Y	Y
Does Monte Carlo simulations. [Generates multiple data sets using the same function and parameters].	N	N	Y
Number of data sets that can be generated based on a function and its parameter values. [Monte Carlo simulation].	N	N	2 million
Does Monte Carlo analyses. [Analyzes multiple data sets using the same function in "batch mode"].	N	N	Y
Maximum number of data sets that can be analyzed in "batch" mode.	N	N	2 million
Does Multi-Fit analyses. [Analyze one data set using different variations of the same function].	N	N	Y
Number of Multi-Fit variations that can be generated and analyzed. [Actual number depends on the specific function].	N	N	Millions
Can use user defined FitAll Function Libraries .	N	Y	Y
Can use custom add-in FitAll Function Libraries available from MTR Software.	N	Y	Y
Can use custom FitAll Function Libraries , created for you by MTR Software.	N	Y	Y

Feature	Evaluation Edition	Personal Edition	Research Edition
Includes source code needed to create User Defined FitAll Function Libraries . [Note: Delphi v5 to XE2, Free Pascal or Lazarus are required to compile the supplied source code. Free Pascal and Lazarus are open source Pascal compilers available at www.freepascal.org and www.lazarus.freepascal.org]	N	N	Y
Includes source code for the Example FitAll Function Library . [This provides examples of how to add functions to FitAll].	N	N	Y
Can be used to create up to 1,000 user defined functions.	N	N	Y
NEW in Version 9 Can connect to and display Help Documents for User Defined Functions.	Y	Y	Y
Includes FitAll Programmer's Guide [Explains how to create User Defined FitAll Function Libraries , and describes the FitAll API].			
<ul style="list-style-type: none"> as on-line Help. 	N	N	Y
<ul style="list-style-type: none"> as a printable PDF file. 	N	N	Y
Includes FitAll Getting Started Guide			
<ul style="list-style-type: none"> as on-line, context sensitive, Help. 	Y	Y	Y
<ul style="list-style-type: none"> as a printable PDF file. 	N	N	Y
Includes FitAll Reference Guide			
<ul style="list-style-type: none"> as on-line, context sensitive, Help. 	Y	Y	Y
<ul style="list-style-type: none"> as a printable PDF file. 	N	N	Y
Includes FitAll Basic Functions Guide			
<ul style="list-style-type: none"> as on-line Help. 	Y	Y	Y
<ul style="list-style-type: none"> as a printable PDF file. 	N	N	Y
Includes FitAll Binding Curve Functions Guide			
<ul style="list-style-type: none"> as on-line Help. 	N	N	Y
<ul style="list-style-type: none"> as a printable PDF file. 	N	N	Y
Includes FitAll Chemistry Functions Guide			
<ul style="list-style-type: none"> as on-line Help. 	N	N	Y
<ul style="list-style-type: none"> as a printable PDF file. 	N	N	Y
Includes FitAll Peak Functions Guide			
<ul style="list-style-type: none"> as on-line Help. 	N	N	Y
<ul style="list-style-type: none"> as a printable PDF file. 	N	N	Y
Includes FitAll Solar Cell Functions Guide			
<ul style="list-style-type: none"> as on-line Help. 	N	N	Y
<ul style="list-style-type: none"> as a printable PDF file. 	N	N	Y