

# FitAll v10

## Specifications and Features

Feature	Evaluation Edition	Personal Edition	Research Edition
Includes <b>Basic FitAll Function Library</b> .	Y With Major Limitations	Y	Y
Includes <b>Binding Curves FitAll Function Library</b>	N	N	Y
Includes <b>Peaks FitAll Function Library</b>	N	N	Y
Includes <b>Chemistry FitAll Function Library</b> (Has more than two dozen functions for the titration of strong and weak acids with a strong base).	N	N	Y
Includes <b>Solar Cell FitAll Function Library</b>	N	N	Y
Includes User Requested Functions <b>FitAll Function Library</b>	N	N	Y
Can use <b>FitAll Function Libraries</b> that were created using the Research Edition	N	Y	Y
Tab-based user interface, UI.	Y	Y	Y
<b>New in Version 10</b> Scripted Functions – Users can fill out a simple form to add custom functions that have one independent variable, X, and up to ten (10) parameters. The functions are limited to a single line expression.	Y	Y	Y
<b>New in Version 10</b> Number of Scripted functions that can be added.	<b>3</b>	<b>100</b>	<b>100</b>
LibreOffice Writer, as well as MS Word, reports can be created. (Note: LibreOffice is a free, open-source suite of office applications available from <a href="http://www.libreoffice.org">www.libreoffice.org</a> .	Y	Y	Y
User defined <b>FitAll Function Libraries</b> can be loaded and used by <b>FitAll Personal Edition</b> to analyze data.	N	Y	Y
<b>REMOVED IN VERSION 10 because no current users were using or expecting to use this feature.</b> 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
<b>REMOVED IN VERSION 10 because no current users were using or expecting to use this feature.</b> Includes an example program (FaClient), with source code, that demonstrates how to control <b>FitAll</b> 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 <b>FitAll</b> is up to date.	N	Y	Y
By default, installs into a directory that allows all users to run <b>FitAll</b> , although the install must still be done by a user that has “administrator” rights. This eliminates some Windows 7, 8 & 10 “security” issues.	Y	Y	Y
Can use MS Word and LibreOffice Writer to create reports.	Y	Y	Y
Can <b>append</b> results to an open MS Word or LibreOffice 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	<b>2 million</b>
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

Feature	Evaluation Edition	Personal Edition	Research Edition
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
Saves graphs to disk as *.bmp, *.jpg, or *.png 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].	0	0	<b>2 million</b>
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.	0	0	<b>2 million</b>
Does <b>Multi-Fit</b> analyses. [Analyze one data set using different variations of the same function].	N	N	Y
Number of <b>Multi-Fit</b> variations that can be generated and analyzed. [Actual number depends on the specific function].	0	0	Millions
Can use user defined <b>FitAll Function Libraries</b> .	N	Y	Y
Can use custom add-in <b>FitAll Function Libraries</b> available from MTR Software.	N	Y	Y
Can use custom <b>FitAll Function Libraries</b> , created for you by MTR Software.	N	Y	Y
Includes source code needed to create User Defined <b>FitAll Function Libraries</b> . [Note: Lazarus / Free Pascal is required to compile the supplied source code. Lazarus / Free Pascal is open source Pascal compiler available at <a href="http://www.lazarus.freepascal.org">www.lazarus.freepascal.org</a> ]	N	N	Y
Includes source code for the <b>Example FitAll Function Library</b> . [This provides examples of how to add functions to <b>FitAll</b> ].	N	N	Y

Feature	Evaluation Edition	Personal Edition	Research Edition
Can be used to create up to 1,000 user defined functions.	N	N	Y
Can connect to and display Help Documents for User Defined Functions.	Y	Y	Y
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Includes <b>FitAll</b> Programmer's Guide [Explains how to create User Defined <b>FitAll</b> Function Libraries, and describes the <b>FitAll</b> API].			
• as on-line Help.	N	N	Y
• as a printable PDF file.	N	N	Y
Includes <b>FitAll</b> Getting Started Guide			
• as on-line, context sensitive, Help.	Y	Y	Y
• as a printable PDF file.	N	N	Y
Includes <b>FitAll</b> Reference Guide			
• as on-line, context sensitive, Help.	Y	Y	Y
• as a printable PDF file.	N	N	Y
Includes <b>FitAll</b> Basic Functions Guide			
• as on-line Help.	Y	Y	Y
• as a printable PDF file.	N	N	Y
Includes <b>FitAll</b> Binding Curve Functions Guide			
• as on-line Help.	N	N	Y
• as a printable PDF file.	N	N	Y
Includes <b>FitAll</b> Chemistry Functions Guide			
• as on-line Help.	N	N	Y
• as a printable PDF file.	N	N	Y
Includes <b>FitAll</b> Peak Functions Guide			
• as on-line Help.	N	N	Y
• as a printable PDF file.	N	N	Y
Includes <b>FitAll</b> Solar Cell Functions Guide			
• as on-line Help.	N	N	Y
• as a printable PDF file.	N	N	Y