



INDIAN INSTITUTE OF PETROLEUM & ENERGY

(An Institute of National Importance by an Act of Parliament)

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Proprietary and Authorised Distributor Certificate



OriginLab Corporation
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April 01, 2024

Proprietary and Authorized Distributor Certificate

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If you have any questions, please feel free to contact me.

Regards,

Eric Newton, CMA, MBA
VP of Finance
OriginLab Corporation

OriginLab Corporation formerly Microcal Software, Incorporated

Detailed of the Product/Software

Description: Originlab Professional v2024b;
Type of License: Academic Use Concurrent Network Floating License;
Validity/Subscription: 1 Year;
Total No. of Licenses: 10 Nos;

Originlab professional version 2024b
Scientific Data Analysis and Graphing Tool
technical data sheet

S. No	Functions	Specification
1	Data Import & connectivity	<p>Data storing capacity in single worksheet is 2-billion rows and ≥ 94,000 nos. of columns or parameters. Tool must be able to import data directly using drag and drop method from ASCII & Binary files like (TXT ,CSV ,DAT, etc),binary and instrument formats,CDF,HDF5,</p> <p>Data translation (DCF, HPF), earthProbe (EPA), famos (DAT, RAW), ETAS INCA MDF (DAT, MDF), Heka (DAT), JCAMP-DX (DX, DX1, JDX, JCM), NetCDF (NC), NI DIAdem (DAT), NI TDM (TDM), pCLAMP (ABF, DAT), Princeton Instruments (SPE), Somat SIE (SIE), Sound (WAV),SPSS(SAV), Thermo (SPC, CGM) , EDF (EDF, BDF), MZXML, Software-specific formats like IgorPro (PXP, IBW), KaleidaGraph (QDA),MATLAB (Mat), MATLAB with structured data (Mat), Minitab (MTW, MPJ), Excel (XLS, XLSX, XLSM),TDMS (Lab VIEW 2009),Graph Pad Prism, Image formats like PNG, GIF, TIF, JPG, BMP, TGA, PCX, PSD, WMF (Convert to Raster), Axon Binary, Axon Text, ASCII Plain, Comma and general import filter, 1-2-3T, Symphony T, Quattro T, Excel, dBASE E, DIF, Mocha, and ODBC compliant database, SQL queries on tables and selectively import information.</p> <p>Tool must be able to handle ASCII data file upto 2GB</p> <p>Tool must be able to access and able to import data from databases like microsoft access ,microsoft SQL server etc. and graphically construct SQL queries, save named SQL, query with workbook or to disk, define SQL queries in query editor, which supports syntax coloring and LabTalk substitution, database connecting interface: ADO and ODBC</p>
2	Digitizer	<p>Digitize graphs (get data values for points) that exist as Images, Pre-processing of images: rotate, remove gridlines, clear background, supported coordinate systems: Cartesian, Polar,</p>

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		Ternar, auto trace lines: by point, by grids, by area, add labels to picked points
3	2D & 3D & Multidimensional Graph	<p>Readily available 2D graph template must include Line – 12 line styles incl. segmented and spline, scatter - built-in or user-defined symbols</p> <p>Line and Symbol - 4 types, column/bar - 10 types including grouped column, plots from indexed data and grouped stacked column plots, control column/bar width using dataset, normalize stacked column/bars to 100%, area - 9 fill area methods, bubble/colour mapped-3 types, multiple panel-6 types or create your own, multiple axes plot-6 types or create your own, pie chart, polar (r, theta) or (theta, r), ternary diagram, with scale customization and, optional axes direction</p> <p>Smith@ chart, piper diagram, stock charts: high low close, Japanese</p> <p>Candlestick, OHLC bar chart, OHLC-volume, 2D vector - 2 types: XYXY and X, Y, angle, magnitude stacked lines by Y offsets with customizable offsets, windrose: raw or binned data, radar/spider Chart 2D function graphs and 2D parametric function, graphs for plotting mathematical equations, violin plots, subcolumn graphs, smoothing spline,</p> <p>Readily available 3D graph template must include 3D function plot, 3D surface plot, 3D vector plot, 3D bar plot, 3D column plot, 3D scatter plot, 3D parametric function plot, all kind of statistic graphs, image graphs, contour graphs</p> <p>Provision shall be available to control the axes scale types linear, natural logarithmic, base 10 logarithmic, probability reciprocal and user defined scales must be available</p> <p>All the graphs template must be easily customised of colour thickness of plot lines, shape, colour & size of data points, legend, title, font and provision for saving customised templates shall be available</p>
4	Data Analysis	<p>Tool must be able to perform mathematical, statistical and data manipulation operations.</p> <p>Tool must be able to perform baseline and peak analyser like</p>

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		<p>peak finding, peak integration, peak fitting.</p> <p>Tool must be able to perform signal processing, filtering using all FFT filters, IIR filter, 2D FFT filters, STFT, IFT smoothing, wavelet analysis, Global Curve Fitting, one click regression analysis</p> <p>Tool must be able to perform image processing like convert image to data and vice-versa, plot 3D surface graph from image</p> <p>Tool must be able to perform curve fitting like linear, non-linear and polynomial curve fitting and surface fitting using built-in function and user defined functions it shall be able to handle both implicit and explicit functions and tool shall use standard and benchmarked algorithm for curve and surface fitting, nonlinear regression, t tests, nonparametric comparisons, one-, two- and three-way ANOVA, analysis of contingency tables, survival analysis</p>
5	Programming	<p>Tool shall have inbuilt programming environment for automatic graphing and analysis steps and for customising various functions. Tool shall have programming language like lab talk scripting, C, C++, integrated python, automation server, Visual Basic compatible programming using built-in macro language interface, Macro recorder to save and play-back operations</p>
6	Data Management and Data Export and presentation	<p>Tool shall be able to save data into project and must be able to retrieve the data and analysis results as and when required.</p> <p>Provision shall be given to export 2D & 3D graphs to any image formats, vector formats, PDF, power point presentation, video presentation with highest 1200 DPI resolution.</p> <p>Tool must be able to generate customised reports based on various analysis carried out using tool.</p>
7	User interface and performance requirements	<p>User interface of tool should be aesthetically appealing, user friendly and should have easy access to all the functions of the tool, help option explaining usage of each function contained in the tool, search option for finding desired function in the tool etc.</p> <p>Execution of data analysis and graphing functions of the tool should be considerably fast so as to implement data analysis and</p>
		graphing functions on a real time basis.
8	Hardware Compatibility	<p>Data analysis and graphing tool shall be fully compatible and functional in system having windows XP,7,8,8.1,10,11 for both 32 bit & 64 bit OS, 1.5GHz or higher Pentium compatible processor, 1 Gb RAM or higher, system requirement for the tool shall be provided.</p>

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