

Graphical Analysis Release Notes

Version 3.8.4

April 28, 2011

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System Requirements

The minimum operating system requirements are:

- Macintosh OS X 10.4.8 or newer (10.6 recommended).
- Windows XP SP2, Vista, or Windows 7 (Windows 7 recommended) with Pentium processor, 500 MHz or better, 256 MB available RAM.

Installation requires approximately 100 MB disk space.

What's new in Graphical Analysis 3.8.4

- Windows 7 and Vista (including 64-bit systems) are supported
- Mac OS X 10.5 and 10.6 supported
- No device drivers installed or required for Windows. As a result, all device data import has been removed, including CBL, LabPro, and TI calculator import.
- Data Tagging enables annotations of specific cells or ranges of cells. Data Tagging can associate additional information with specific data elements.
- Graphing is optimized for data as typically entered manually; no connecting lines are drawn and the scale is set to 0 to 10.
- The location of GA templates and examples is changed to better mesh with modern operating systems providing a “Common Application Data” location. This avoids problematic Windows behavior like “Shadow Copies” resulting from attempts to save data in “Program Files” outside of the installation process. First time opens will default to the Common Application Data folder location which varies by operating system. You will find the experiment and sample files shipped with Graphical Analysis under the Common Application Data folder. The new location is as follows:
 - /Library/Application Support/Graphical Analysis/ for Mac OS X
 - [Startup Drive Letter]:\Documents and Settings\All Users\Application Data\Vernier\Graphical Analysis\{language code} for Windows XP
 - [Startup Drive Letter]:\ProgramData\Vernier\Graphical Analysis\{language code} for Vista and Windows 7 systems

- For the convenience of long time users, an alias or shortcut pointing to the new location may still be found in “Program Files” or “Applications”.

Known Issues

- Files saved in Graphical Analysis 3.8.4 cannot be opened in earlier versions of Graphical Analysis.
- Files saved with Graphical Analysis 3.1 and above should not be opened with Graphical Analysis 3.0

What’s new in Graphical Analysis 3.4

- Support for Windows 95 and NT has been discontinued.
- Support added for TI-84 and TI-89 Titanium USB direct cables.
- Control objects for user parameters have been added to the Insert menu. Parameter controls are page objects that allow adjustment of parameter values using mouse or cursor keys.
- Video analysis of a still photo.
- Rotated coordinate system for photo analysis allows one-dimensional analysis of motion that is neither vertical nor horizontal.
- Double Y graphs allow plotting of values with different magnitudes on a single graph, such as pH and temperature vs. time.
- Adaptive point protectors for clearer printing of graphs with multiple traces. Point protectors are placed sparsely on runs as markers.
- Optional rotated horizontal axis labels for graphs.
- New option to make all rows major ticks on graphs. For example, a data table listing twelve month names can be set to display all months on the horizontal axis.
- Additional control of number displays in data tables and graph labels. User can force scientific notation.
- Function Plotting. Modeling no longer requires the presence of data to draw a function on a graph, so a function may be plotted alone.
- You can customize the style of the text (including adding Greek characters) as it appears in text boxes, annotations, and graph labels.
- Tips have been removed.

What’s new in Graphical Analysis 3.2

- There is no longer Page Layout View.
- The only Macintosh operating systems supported are OS 9.2 and OS X.
- The Text Annotation object has been added. This object allows you to enter and edit notes about the run. This is especially useful in calling attention to points of interest.
- The Insert menu no longer has an "Additional Objects" selection, those have been brought up to the main Insert menu
- The Object menu no longer has an "Additional Objects" selection, those have been brought up to the main Insert menu
- In GA 3.2 the user can Show and Hide Data sets via the Data menu
- There are more Calculated Column functions
- Several Menu items have changed on Mac OSX
- Preferences is now under the Graphical Analysis Menu
- Quit is under Graphical Analysis menu
- About Graphical Analysis is under Graphical Analysis Menu
- File Menu/Print Preview has been removed

- Help Menu OSX contains
 - Graphical Analysis Help
 - Graphical Analysis Tips...
 - About Vernier Software & Technology

What's new in Graphical Analysis 3.1

- Macintosh OS X is now supported
- Data can now be imported from a Palm™ hand-held using Data Pro software.
- Data can now be imported from the LabPro interface using a serial or USB cable.
- Graphics (pictures) can be inserted into Graphical Analysis files. (The picture file types supported are .jpg's , .bmp, .gif, .png, .tif and .pct's.)
- Numerous bug fixes.

What's changed from older versions of Graphical Analysis to Graphical Analysis 3.0

The primary difference between Graphical Analysis 3.0 and previous versions of the program is the overall presentation and layout. Rather than having separate windows that show diverse information (graphs, tables, text, etc.), you will be offered a “page” environment. Graphs, tables, charts, text, and other tools will be represented as objects within the page; these objects can be arranged, resized, and grouped in a number of ways.

Following this scheme, multiple pages can be created within a document. This allows multiple-page reports to be set up. For instance, a single document can contain multiple successive screens of classroom activities, or be used for a slide-show-type presentation.

All available TI-GRAPH LINK™ cables are now supported. This includes the “black” Windows TI-GRAPH LINK cable and USB cable that were previously not supported in old versions of Graphical Analysis. The following Texas Instruments graphing calculators are supported by Graphical Analysis 3.0: TI-73 Explorer, TI-82, TI-83, TI-83 Plus, TI-85, TI-86, TI-89, TI-92, TI-92 Plus, Voyage 200. The importing procedures are much simpler than old versions of the program. In addition, data can now be imported from the CBL™, CBL 2™, and LabPro® interfaces using the TI-GRAPH LINK cables.

There is now 100% interchangeability between Macintosh and Windows files. For instance, files created on Windows computers can be read, edited, and saved on Macintosh computers, and vice versa.

Improved import of file formats makes Graphical Analysis 3.0 able to read text files created in Logger Pro, Excel™, or a word processor.

There are improved features for report writing. These include:

- A more versatile text object
- More color
- More flexibility on how data are graphed
- Multiple pages within a document
- Additional printing features

The analysis tools are improved, including additional functions and the ability to instantly update curve fits, statistics, etc. on your graph.

A free student site license is included with a single purchase of Graphical Analysis 3.0.