

Graphical Analysis Release Notes

Version 3.4
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System Requirements

The minimum operating system requirements are:

- Macintosh OS 9.2 or OS X 10.2, 10.3 or 10.4, built-in USB port for data import.
- Windows 98 SE, Me, 2000, or XP with Pentium processor, 200 MHz or better, 32 MB available RAM, available USB or serial port for data import.

Installation requires approximately 15 MB disk space.

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.
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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™ handheld 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.

Known Issues:

- If Logger Pro 3.3 is run after Graphical Analysis 3.4 is installed, Logger Pro will incorrectly warn about a network install. To avoid the message, check the box to not display the message again. Despite the warning, LabPro will work.
- Files saved in Graphical Analysis 3.4 cannot be opened in earlier versions of Graphical Analysis.
- Files saved with Graphical Analysis 3.1, 3.2, or 3.4 should not be opened with Graphical Analysis 3.0
- Importing using the serial port is not supported under Mac OS X
- Disconnecting a device during importing may cause a crash
- QuickTime is required to insert and view graphics. If your computer doesn't have QuickTime, you will be prompted during Graphical Analysis 3.4 installation to have it installed.