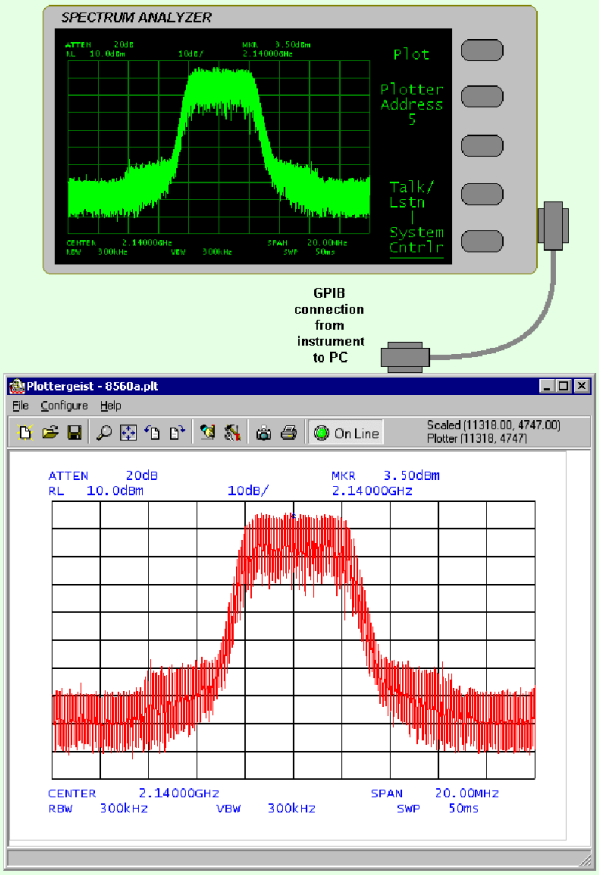
- **No more dried pens and obsolete plotters**
- **GPIB and RS-232 Connectivity**
- **Accumulate traces in the same graphic**
- **Create hardcopy using any printer**
- **Cut / Paste graphics into documents etc.**
- **Faster plotting than a real plotter**

Plottergeist

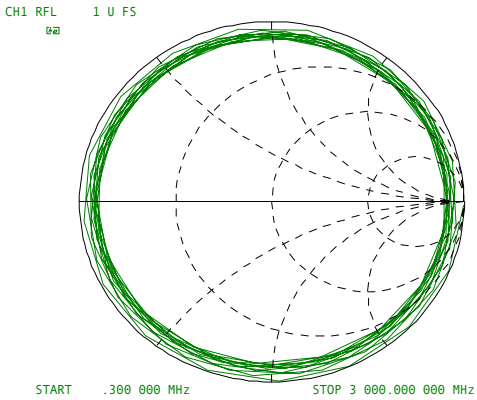
HPGL Plotter Emulator Software

Plottergeist "*the phantom plotter*" emulates all the common HPGL plotters. It runs on a standard PC, and connects through **GPIB or RS-232** to test equipment or other computers. The software behaves like a real plotter, except that the PC screen is used instead of paper. Press the **Plot** key on the instrument and the graphics appears in the Plottergeist main window.

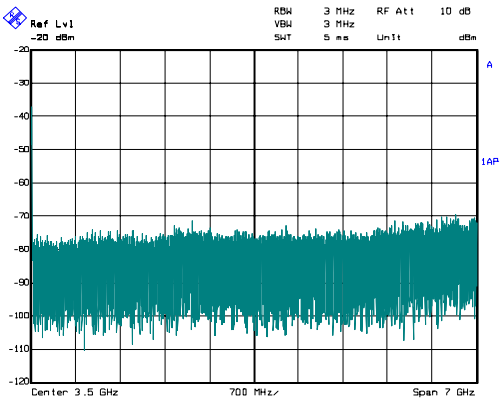
When the plot is complete, toolbar buttons can be used to rotate the image, change the pen definitions, and zoom in to a region of interest. The "snapshot" button is used to take a copy of the image, which can then be pasted directly into documents and presentations. Or print it with a standard printer!



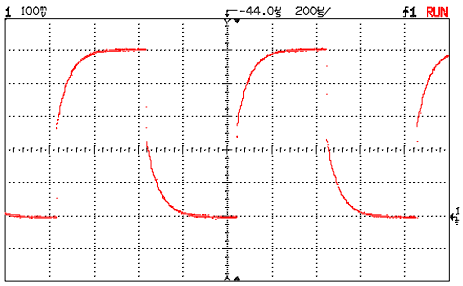
From your Network Analyzer...



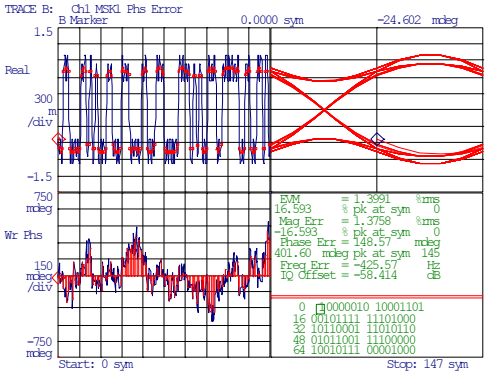
or your Spectrum Analyzer



From your Oscilloscope...



or your Modulation Analyzer



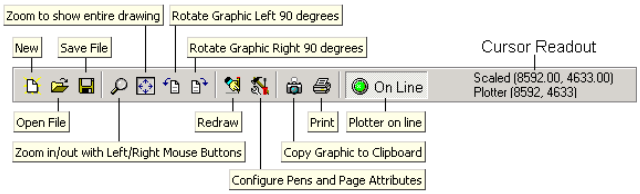
Capabilities

Graphics data can be saved to file and re-loaded (HPGL and HPGL/2 format) as well as received directly from the test equipment. This widens its applicability to being a viewer for plot files generated from other software, such as CAD Schematic and Layout files from Cadence and Mentor systems, and mechanical drawings from AutoCad (TM Autodesk), etc. The graphics can also be exported in a variety of other formats, such as JPEG, TIFF, BMP and WMF.

Both standard and custom paper sizes are supported. The "virtual" paper can be used in the same way as real paper, in that multiple plots can be accumulated, or a template can be loaded before a trace is plotted onto it.

Plottergeist understands HPGL and HPGL/2, and has built-in support for emulation of HP 7440, HP 7470, HP 7475, HP 7550 and HP 7570 pen-plotters. The common ANSI and ISO paper sizes are selected from a list (A..D, A4..A0, and custom size), and the useable plot area is reported to the controlling instrument when requested.

Overview



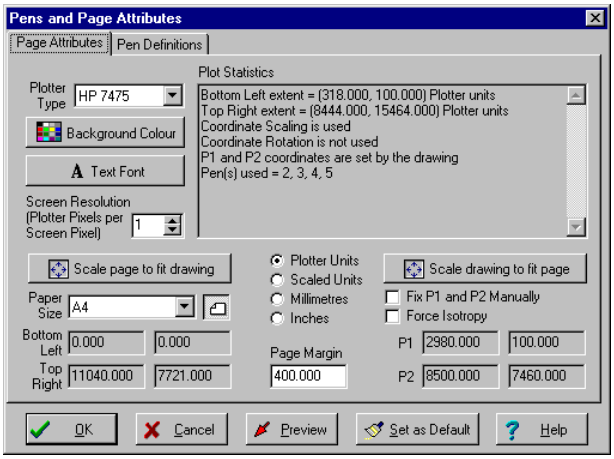
To use Plottergeist, simply click on the "**On Line**" button on the toolbar. Whenever the button is depressed, HPGL graphics will be accepted and plotted at any time, according to the instrument or controller. Just press the Hard-copy or Plot key on the instrument and the graphics will appear in the Plottergeist window.

The simplest way to export a plot to a document or presentation is to click on the **Camera** button on the toolbar. This copies the graphic in WMF format to the clipboard. Then switch to the other application, position the cursor and then click on **Paste**.

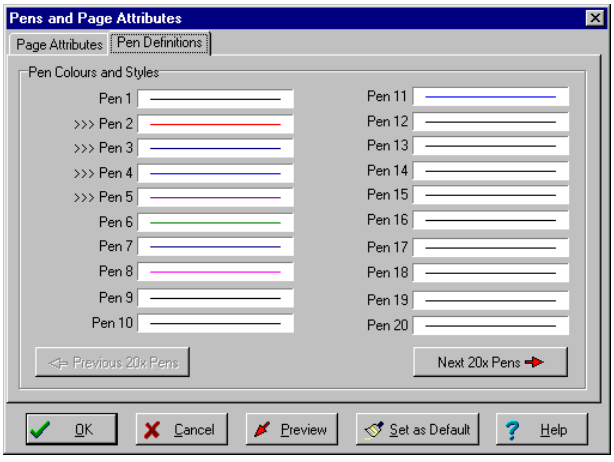
Plottergeist can be configured to automatically save to file or print to a printer at the end of a plot.

Unlike simple HPGL import filters, Plottergeist retains all the interactivity of a real plotter. It is possible to accumulate graphics (useful for adding traces to an existing graph). For example, a file containing a blank graph or a company template can be loaded and the instrument trace data plotted over it.

All the page settings can be modified from a control panel, so that a graphic of arbitrary aspect ratio can be correctly displayed.



Up to 99 pens can be configured for colour and linewidth. These preferences can be set after the graphic has been captured. The page and pen settings are stored for next time when the program closes.



Plottergeist works with any instrument that can output to a plotter. It has found application with instruments such as HP8510, HP8753, HP8590, HP8563, HP89441, Rohde & Schwarz ZVM, FSE, FSIQ, Anritsu 37397C.

Hardware Requirements

Minimum system requirement	IBM Pentium I 90MHz computer, 16MB RAM, 4MB hard disk space Microsoft Windows 95 / 98 / NT4 / 2000 / XP
GPIB card Note Plottergeist can also use RS-232 if the instrument supports it	**National Instruments**, type GPIB-PCIIA (doesn't support Listen-Only), AT-GPIB/TNT, PCI-GPIB, PCMCIA-GPIB or GPIB-USB-A/B **Agilent / Hewlett-Packard** HP82340, HP82341, HP82350 (note HP82335 and 82357 are not compatible) **ComputerBoards Inc.** GPIB card, type ISA-GPIB, ISA-GPIB/LC, ISA-GPIB-PC2A, PCI-GPIB, PCM-GPIB.

Capability Summary

Languages	HPGL and HPGL/2
Plotter Types	HP 7440, HP 7470, HP 7475, HP 7550, HP 7570, and generic HPGL/2
Paper Sizes	All common ANSI and ISO paper sizes (A..D, A4..A0, and custom size)
Pens	99
Query Responses	The controlling instrument can request: OA Output actual position and status OC Output commanded position and pen position OE Output error OF Output factors OH Output hard-clip limits OI Output identification eg "7440A" OO Output options OP Output P1 and P2 OS Output status OW Output window
File Formats	Read/write of HPGL (*.HPG, *.HGL, *.PLT), Export of Windows bitmap (*.BMP), Windows Metafile (*.WMF), JPEG (*.JPG), Tagged Image File Format (*.TIF)

Ordering Information and Enquiries...

Further information and a free evaluation edition of Plottergeist is available for download from our Web site. Alternatively write, e-mail, call or fax us.

Ordering Options :	Individual copies can be purchased direct from our web store at www.plottergeist.com. Please request a quotation if you prefer to use an official company purchase order. Site licences are also available and quantity discounts may apply.
Delivery :	Within 10 working days
Address To:	Aphena Ltd., 10, Teversham Road, Fulbourn, Cambridge, U.K. CB1 5EB
Tel: **Fax:**	+44 (0) 1223 700499 +44 (0) 870 7061487
E-Mail To:	Enquiries@aphena.com
WorldWide Web Site:	http://www.aphena.com http://www.plottergeist.com

Your Local Representative is

Ref : Plottergeist Data Sheet 4/06/03