Thank you for purchasing an Agilent instrument. To get you started and to assure a successful and timely installation of your Agilent software, please refer to this specification or set of requirements.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an information guide and checklist prepared for you that outlines the supplies, consumables, space and utility requirements for your equipment for your site.

Customer Responsibilities

Make sure your site meets the following prior specifications before the installation date. For details, see specific sections within this checklist, including:

- The computing environment and the necessary space is made available
- The number & location of electrical outlets for your computer systems and peripherals are planned
- That your site meets the software, hardware and networking specifications below
- Locate your sales order information, software authorization codes and/or software licenses/certificates
- The necessary software media, disks etc are available including upgrade/update disks
- That a suitable backup solution is identified for your software
- Availability of a system/network administrator as needed to connect to your intranet
- Please consult Other Requirements section below for other product-specific information.
- Complete Final Check: Software Site Preparation Tool. Please visit the following Agilent website to download the Software Installation Site Preparation Tool.
  This easy-to-use tool verifies that your PC meets the necessary hardware and software pre-requisites before installing the Agilent software.

If Agilent is delivering installation and familiarization services, users of the instrument should be present throughout these services; otherwise, they will miss important operational, maintenance and safety information.

- Author to add specific customer activities or additional help, information, or guidance for the customer to follow prior to installation.

Important Customer Information

1. If you have questions or problems in providing anything described as a Customer Responsibilities above, please contact your local Agilent or partner support/service organization for assistance prior to delivery. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your laboratory.
2. Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
3. Other optional services such as additional training, operational qualification (OQ) and consultation for user-specific applications may also be provided at the time of installation when ordered with the system, but should be contracted separately.
Software Specifications for Workstations, Clients, and Servers

Special Notes:
1. Upgrade system to the latest MS Windows Service Pack

<table>
<thead>
<tr>
<th>Specification Description</th>
<th>Minimum</th>
<th>Recommended (if applicable)</th>
<th>Comments (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system type(s), versions</td>
<td>Microsoft Windows XP Pro.</td>
<td>Microsoft Windows XP Pro.</td>
<td>If Running with Windows 7, please ensure PC is configured to use XP Pro mode in Windows virtual PC mode (Please refer to other requirements section)</td>
</tr>
<tr>
<td>O/S .NET &amp; other add-ons</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language settings/compatibility</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regional settings/compatibility</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Account settings/privileges</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific drivers</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Computer Hardware Specifications for Workstations, Clients, and Servers

Special Notes
1. Author to add special considerations or notes.

<table>
<thead>
<tr>
<th>Specification Description</th>
<th>Minimum</th>
<th>Recommended (if applicable)</th>
<th>Comments (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor type &amp; speed</td>
<td>Pentium 4 operating at 2GHz or greater microprocessor</td>
<td>Pentium 4 operating at 2GHz or greater microprocessor</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>256 Mb</td>
<td>512Mb or better</td>
<td></td>
</tr>
<tr>
<td>Internal Storage/devices/media</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Storage/devices/media</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video devices</td>
<td>SVGA( 800 x 600)</td>
<td>Resolution set to High Colour (16bit)</td>
<td></td>
</tr>
</tbody>
</table>
Audio devices | N/A |  
| Printing devices | N/A |  
| Pointing devices | Microsoft compatible mouse |  
| Additional devices/ports | Minimum 2 USB ports and an RS-232 serial communications port | Minimum 2 USB ports and an RS-232 serial communications port |

Networking Specifications

Special Notes

1. Author to add special considerations or notes.

<table>
<thead>
<tr>
<th>Specification Description</th>
<th>Minimum</th>
<th>Recommended (if applicable)</th>
<th>Comments (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network type, bandwidth, speed, protocol etc</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional network or instrument devices/cards requirements</td>
<td>N/A</td>
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<td></td>
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</tbody>
</table>

Important Customer Web Links

- For additional information about our solutions, please visit our web site at http://www.chem.agilent.com/en-US/Pages/HomePage.aspx

Document part number: xxxxx-xxxxx
**Do not include this section in the PDF version.**
Print only the checklist for the PDF. Do not include this page. This page is NOT intended for customer viewing. See the guidance instructions at the end of the template for more information.

### Document Control Logs

#### Revision Log

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<th>Reason For Update</th>
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<tr>
<td>[add revision # of doc here]</td>
<td>Date of issuance</td>
<td>Author to describe main features/changes made for this specific revision</td>
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#### Approval Log

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<th>Title of Approver</th>
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<tr>
<td>[add rev#]</td>
<td>Add approver name here</td>
<td>Add approver's function or title here</td>
</tr>
</tbody>
</table>

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### Other Requirements:

When running Windows 7, please ensure PC is configured to use XP Pro mode in Windows virtual PC mode by following the configuration procedure below:
Configuring the PL Instrument Control Software to Run On Windows 7

Summary

The PL Instrument Control Software (IN1-26500) can be used to control the GPC50 GPC system, the 1260 MDS / 390-LC Multi Detector Suite, the Varian 290-LC PIM (Pump Injection system), the Varian 356-RI detector and PL GPC 120 & XT systems GPC systems.

This software is only compatible with Windows XP Pro and Windows 2000 and will not install or function correctly under Windows Vista or Windows 7.

This document describes how this control software can be run on a Windows 7 system using the Windows XP Mode running on Windows 7.

What is Windows Virtual PC?
Windows Virtual PC is Microsoft’s virtualization technology for Windows 7. It is the runtime engine for Windows XP Mode and provides a virtual Windows environment for Windows 7. Using Windows Virtual PC, Windows XP Mode applications can be seen and accessed from a Windows 7 desktop.

What is Windows XP Mode?
Windows XP Mode is a free addon for Windows 7 Professional and Windows 7 Ultimate and provides additional application compatibility. It allows you to install and run many of your applications for Windows XP directly from your Windows 7-based PC.

Comprehensive information about Windows Virtual PC and XP Mode is available from Microsoft at:
System requirements for Windows Virtual PC

1 GHz 32-bit / 64-bit processor required

Memory (RAM)
2GB memory or higher recommended

Recommended 15 GB hard disk space per virtual Windows environment

Supported host operating system:

Windows 7 Home Basic
Windows 7 Home Premium
Windows 7 Enterprise
Windows 7 Professional
Windows 7 Ultimate

Note: Windows XP Mode is only available in Windows 7 Enterprise, Windows 7 Professional, and Windows 7 Ultimate.

Support Documentation & Videos
Comprehensive support information about Virtual PC & XP Mode is provide by Microsoft and is available from: http://www.microsoft.com/uk/windows/virtual-pc/support/default.aspx

Installation of Virtual PC and Windows XP Mode
The required installations for your Windows configuration need to be download from Microsoft’s web site available from http://www.microsoft.com/windows/virtual-pc/download.aspx.
To process is described in detail by Microsoft but in summary involces 3 steps.

Step 1: Download Windows XP Mode
Step 2: Download Windows Virtual PC
Step 3: Update Windows XP Mode

Opening Windows XP
To install applications in Windows XP Mode, you start by selecting Windows XP Mode from the Windows 7 Start Menu.
Adding your application

You can install applications in Windows XP Mode just as you normally would on a physical PC. For example, you can install applications via web, from storage devices, or from physical media such as CD/DVD.

Running Windows XP Mode applications

To run your application directly from the Windows 7 desktop, just go to your Start menu.
Installing the PL Instrument Control and Cirrus

⚠️ Do not connect the GPC 50 or MDS to your PC until all software & drivers are installed. Install and configure Windows XP mode & Virtual PC as described by Microsoft.

In Windows 7, click the Start button, click All Programs, click on Windows Virtual PC, and then click Windows XP Mode.

You will now get a session of Windows XP running in a new window.

Insert the PL Instrument Control software CD into your computer's CD/DVD Run the program LAUNCH.EXE on the CD in the Windows XP session and follow the instructions to install the software and drivers as normal into the XP session not Windows 7. With XP Mode still running connect the GPC50 / MDS. The USB devices of the GPC50 / MDS will be detected and configured in the XP session. If using Cirrus for data collection, it should be installed into the XP session using the same procedure described for the Control software above.
Running Instrument Control & Cirrus from within XP Mode.

To control the instrument and collect data into Cirrus, the programs have to be loaded from the XP mode session. The programs can be launched from within the XP session Start menu or It is possible to drill down to the start menu of the XP Machine directly from the Windows 7 start menu.

Use this menu option from Windows 7 start menu to launch XP Mode as a new window

It is possible to drill down to the start menu of the XP Machine to launch a specific program directly from the Windows 7 start menu.

Attaching the USB devices to the XP machine on startup of XP Mode

The USB devices of the GPC instrument need to be attached to the XP machine on startup of XP Mode. This is achieved by either:

Selecting the Attach options for the USB devices in the USB menu of the XP Mode window

Screen shot showing the USB devices currently connected to Windows 7

Screen shot of the USB devices currently connected to the XP machine. They can be released back to the Windows 7 machine
Using the Right click menu on the minimised XP Machine

Option available by right clicking on the minimised XP Machine in Windows 7

Example screen shot of the dialog launched from the Manage USB devices menu.