Agilent CrossLab
From Insight to Outcome

Agilent CrossLab Start Up Services

# Agilent Cary UV Workstation 1.7 Software Site Preparation Checklist

Thank you for purchasing software from **Agilent Technologies**. CrossLab Start Up is focused on helping customers shorten the time it takes to start realizing the full value of their instrument system investment.

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 software requirements for the system set up in your lab.

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# Introduction

## Customer Information

- If you have questions or problems in providing anything described as part of Customer Responsibilities below, 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.
- Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-schedule any services that have been purchased.
- 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.

## Customer Responsibilities

Ensure that your site meets the following 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 and location of **electrical outlets** for your computer systems and peripherals are planned.
- Your site meets the **software, hardware, and networking specifications** described later in this document.
- Locate your **sales order information**, software authorization codes, and/or software licenses/certificates.
- Check for Hotfix, Microsoft updates, and patch compatibility appropriate for the customer's system. **Critical Note: Current Microsoft updates and supported Windows version must be installed in the customer provided PC before installation can begin**.
- The necessary **software media,** disks etc. are available including upgrade/update disks.
- That a suitable **backup solution** is identified for your software and **data**.
- If you are upgrading your software, ensure you take a backup of your system and data
- If Agilent is delivering **Installation and Introduction services,** users of the instrument system should be present throughout these services. Otherwise, they will miss important operational, maintenance, and safety information.


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- Availability of a **system/network administrator** as needed to connect to your intranet.
- The Cary 3500 is a network device and Zeroconf (Zero Configuration Networking) is used for instrument discovery and connection. As well as being able to connect directly to the PC, it can use network infrastructure (LAN). In addition, the instrument is using DHCP by default so if necessary, an IP address can be obtained from the network DHCP server.
- The default installation is by LAN direct to the PC.
- Instrument must be on the same subset - preferably on the same segment.
- If reports are configured to export to a network drive, the computer must be connected to a domain with access to the network drive in order to use this feature. In addition, the related backend service will need to be given domain admin credentials so it can operate.
- For additional information please consult the Cary UV Workstation System Requirements document.
- Please consult the **Special Requirements** section for other product-specific information.

## Important Customer Web Links

- To access **Agilent University**, visit http://www.agilent.com/crosslab/university/ to learn about training options, which include online, classroom and onsite delivery. A training specialist can work directly with you to help determine your best options.
- To access the **Agilent Resource Center** web page, visit https://www.agilent.com/en-us/agilentresources. The following information topics are available:
    - Sample Prep and Containment
    - Chemical Standards
    - Analysis/Application Workflows
    - Service and Support
- The **Agilent Community** is an excellent place to get answers, collaborate with others about applications and Agilent products, and find in-depth documents and videos relevant to Agilent technologies. Visit https://community.agilent.com/welcome
- Videos about specific preparation requirements for your instrument can be found by searching the **Agilent YouTube** channel at https://www.youtube.com/user/agilent
- **Need to place a service call?** Flexible Repair Options | Agilent


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# Site Preparation

## Software Specifications for Workstations, Clients and Servers

### Special notes

- If you have purchased a system including hardware instrumentation, refer to the hardware and peripheral device Site Preparation Checklist for requirements regarding laboratory bench space requirements.
- Implement a backup strategy or backup all your data prior to making any changes.
- No other instrument software can be installed.
- Only a direct upgrade from version 1.5 or 1.6 to 1.7 is supported.
- If upgrading from version 1.4 or earlier, please contact your local Agilent representative for more information.
- Upgrade services only include:
    - Direct upgrade on the original PC.
    - Installing to a new PC.
- Upgrade services **do not** include:
    - Backing up or restoring data.
    - Transferring data.
    - Intermediate upgrades.
    - Installing or upgrading operating systems.
    - Verifying data
    - IQ/OQ
    - Please contact your local Agilent representative for more information.
- Cary UV Workstation is not compatible with the following Agilent software:
    - OpenLab Basic Server
    - OpenLab Server
    - OpenLab ECM XT


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- OpenLab ECM v3.X

| Software Specification | Supported | Comments |
|---|---|---|
| **Operating system name, version** | - Microsoft Windows 11 Revision 21H2 (22000) or higher | 64-bit only<br>Enterprise, Pro & LTSC<br>Windows 11 26H1 is not supported. |
| **O/S .NET and other add-ons** | .NET /4.8 Advanced Services and above.<br>.NET 3.5.x<br>.NET Core (64 bit) 6.x | Installed by the System Preparation Tool if required.<br>Windows 11 versions later than 25H2 requires .NET 3.5x to be installed manually. |
| **Language settings/compatibility** | English<br>Simplified Chinese<br>Japanese | The English version is validated on Microsoft Windows English language operating systems. Localized versions are supported on localized language versions of Microsoft Windows using the default system font:<br>Chinese: Microsoft YaHei<br>Japanese: Yu Gothis UI |
| **Account settings/privileges** | Full Local Administrator privileges | Required for installation, configuration and upgrading |
| **Web Browser** | Google Chrome 98 or higher<br>Microsoft Edge | Desktop versions. Enable Javascript for the best user experience when accessing Help and Learning Center |
| **PDF Reader** | Adobe Acrobat Reader DC | Required to view manuals and documentation |
| **PostgreSQL** | Only the versions installed with UV Workstation are supported | Data is stored in a database. |
| **Antivirus software** | Windows Defender (64 bit) | No other antivirus or security software has been validated. |
| **Firewall** | Microsoft Firewall | No other security software has been validated. |
| **Smart App Control (SAC)** | Not supported. | SAC must be turned off for the installation and use of Cary UV Workstation. |
| **Power Saving** | None - disable sleep or power saving modes. If enabled, this may result in data loss or unstable instrument control. | Any PC power saving functions for hardware such as hard disks, monitor, LAN etc. should be disabled. |
| **Network Connection** | An active network connection is required during installation of UV Workstation | An active connection can mean a connection to the Cary 3500 or a LAN. |


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## Computer Hardware Specifications for Workstations, Clients and Servers

### Special notes

- Cary UV systems are evaluated under Agilent's ISO9001 procedures using Cary UV Workstation software and a desktop computer. We strongly recommend a computer configuration that matches the system used during evaluations.

| Hardware Specification Description | Minimum | Recommended (if applicable) | Comments |
|---|---|---|---|
| **Processor type and speed** | Intel® i5 or greater<br>3.0 GHz or greater 6 Core | PC:<br>HP Z2G1i or equivalent | Evaluated PC HPZ2G1i<br>Evaluated OS:<br>Win 11 Pro: 24H2<br>Win 11 Ent: 25H2<br>Win 11 LTSC: 24H2 |
| **Memory** | 16Gb | 32Gb | |
| **Internal storage/devices/media** | 512Gb solid-state-drive | 1Tb solid state drive | |
| **Graphics resolution** | 1600 x 900 | 1920 x 1080 recommended | |
| **Pointing devices** | Computer Mouse | | |
| **USB Port** | USB 2.0 | | Required for installation |


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# Networking Specifications

## Special notes

- Cary UV systems use network infrastructure in order to communicate between the PC and instrument. This communication is based on standard TCP/IP protocols and requires no configuration.
- Cary 3500 connects via a LAN interface and is therefore possible to attach to a network. There are many network scenarios, and although the Cary 3500 will work in most, a direct connection to a PC is the most common arrangement. In this case, only one network interface is required on the controlling PC. The use of an additional network interface such as a network interface card (NIC) is required to connect to a data or intranet network. Alternatively, if a second network interface is not available then a network switch may be used.

When using LAN communications to connect PCs to an instrument, use one of these methods:

- Connect via an isolated switch using standard CAT-5 network cabling.
- LAN communication hardware should be 100/1000 Mbps (or higher) speed capable.
- LAN communication must be on the same subnet as instruments and preferably on the same segment.

| Network Specification Description | Minimum | Comments |
|---|---|---|
| **Network type, bandwidth, speed, protocol, etc.** | Integrated Intel I219LM PCIe GbE Controller; HP Flex 1GbE Single Port NIC 100 MB/1 GB LAN | Required for instrument control |
| **Additional network card requirements** | Intel Ethernet I210-T1 GbE NIC (E0X95AA)<br>100 MB/1 GB | A second LAN card for lab intranet connection (if required) |
| **LAN configuration for instrument connection (LAN#1 or LAN#2)** | Internet Protocol (TCP/IPv4) | Automatically obtain IP address and DNS server address |


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# Firewalls, Antivirus Software and Networks

## Special Notes

- Installing Cary UV Workstation Plus will apply network exceptions to the Microsoft Windows firewall under the domain profile to result in a functional system.
- There are firewall ports that must be opened for the Cary UV Workstation software to install and operate successfully. These firewall ports allow communication between the system components of UV Workstation.
- The Cary UV Workstation installer will automatically open the required ports on an enabled Windows firewall during installation configuration.
- If third-party firewall or antivirus software is used, then it is preferable to have these not installed, disabled or uninstalled before proceeding with the installation. Once installed, the ports must be opened. Alternatively, the ports can be opened before installation proceeds.
- Opening ports on third party firewall or antivirus software is not part of the installation so ensure this is done before the arrival of the Agilent engineer or preferably disable or remove these.

## Firewall Ports

| Name | Port (range) | Protocol |
|---|---|---|
| **Control Panel (Used for collecting diagnostics logs)** | 3424 | TCP |
| **DNS Server.** | 53 | TCP/UDP |
| **DHCP or BootP.** | 67, 68 | TCP/UDP |
| **OpenLab Server website and REST APIs.** | 80 | TCP |
| **OpenLab Server secure website & Secure REST APIs. Needed only if HTTPS is used.** | 443 | TCP |
| **OLSS Licensing API (OpenLab Licensing (Flexera) Server)** | 6570 | TCP |
| **OLSS Client API (OpenLab Shared Services WCF APIs)** | 6577 | TCP |
| **OLSS Client API, Control Panel (Legacy Shared Services REST API Legacy Licensing support service REST API)** | 6624 | HTTP |
| **Control Panel (Shared Services REST API Licensing Support service REST API)** | 6625 | HTTP |
| **Control Panel (Licensing Support service WCF API)** | 8084 | TCP |
| **Control Panel (OpenLab Licensing view-only web UI (Flexera). Default is 8090. If 8090 is in use, Flexera web UI is automatically moved to another port in the 8085-8099 range).** | 8085-8099 | TCP |


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| Name | Port (range) | Protocol |
|---|---|---|
| **Control Panel (OpenLab Licensing (Flexera) Server)** | 27000-27009 | TCP |
| **Control Panel (Shared Services REST API)** | 52088 | HTTPS |
| **OLCF Data Collection API, DataCollection Agent (Data Collection Service, 6328 used as fallback only if https is not available).** | 6328, 443 | HTTP/HTTPS |
| **Cary UV Workstation (Cary UV Data Service REST API).** | 52088 | HTTPS |
| **Cary UV Workstation (Instrument Connection) Allow mDNS.** | 8765 | TCP |


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## Special Requirements

- For further details on supported hardware, software, instruments, and firmware requirements please refer to the Agilent Cary UV Workstation and Workstation Plus Requirements and Supported Instruments (System Requirements) which can be found on the installation media or by contacting your local Agilent representative.

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# Service Engineer Review (Optional)

If the Service Engineer completed a review of the Site Preparation requirements with the customer, the Service Engineer should complete the following Comments section.

## Service Engineer Comments

If there are any specific points that should be noted as part of performing the site preparation review or other items of interest for the customer, please write in this box.

# Site Preparation Verification

| | |
|---|---|
| Service Request Number: | Date of Review: |
| Service Engineer Name: | Customer Name: |
| Service Engineer Signature: | Total number of pages in this document: |


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