# System requirements for CardioPerfect Workstation 1.6.5.

The CardioPerfect WorkStation has been validated to install and run on the operating systems specified. Welch Allyn recommends installing all applicable operating system updates as they become available from Microsoft. Consult your local IT policy.

To work with CPWS software, you need the following minimum recommended configuration.

| Item | Resting ECG, ABP, Spiro, Recollect[1,2] | Stress ECG[1,2] | CPWS Server – small office[1,4] | CPWS Server – enterprise[1,4] |
|---|---|---|---|---|
| Configuration | Tower or desktop PC preferred; laptop or tablet | Tower or desktop PC | Tower or desktop PC | Server |
| CPU | P4 (or equivalent) or higher | P4 (or equivalent) or higher | P4 (or equivalent) or higher | P4/XEON (or equivalent) or higher |
| Hard disk | 20 GB with 5 GB free space | 40 GB with 10 GB free space | 120 GB with 40 GB free space | 200 GB with 40 GB free space RAID 5 array or RAID array controller with memory backup recommended |
| RAM | 512 MB, 1 GB or higher recommended | 1 GB or higher | 1 GB or higher | 1 GB or higher |
| Monitor resolution | 1024x768 true color, 1280x1024 recommended | 1280x1024 true color | 1024x768 true color | 1024x768 true color |
| Monitor size | 15" or higher | 17" or higher | N/A | N/A |
| Ports | 2 USB | 3 USB and 2 serial | N/A | N/A |
| Operating system[3] | XP SP2 or later, Vista Business SP1 or later, Windows 7 Home Premium, Professional, or Ultimate, Windows 8 or Windows 8 Pro | XP SP2 or later, Vista Business SP1 or later, Windows 7 Home Premium, Professional, or Ultimate, Windows 8 or Windows 8 Pro | Windows Server 2003, 2008, 2008 R2; Windows Server 2012; XP SP2 or later; Windows 7 Home Premium, Professional, or Ultimate, Windows 8 or Windows 8 Pro. | Windows Server 2003, 2008, 2008 R2, Windows Server 2012 |
| Peripherals | Color printer recommended for Spirometry Compatible with inkjet and laser printers | | | Printer optional |

[1]   An Internet connection is required for the Telemedicine option or to allow Welch Allyn to provide online technical support.

[2]   A PC running only CPWS and EMR applications during tests.

    If using CPWS software in a language other than English, select a numerical option for the Windows date format (under Regional Options). Formats that include month names are reliable only in the English version of the software.

[3]   Both 32- and 64-bit operating systems are supported.

[4]   If the CardioPerfect client software is to be installed on the server for administrative purposes, then the server must not be configured as Primary or Back-up Domain Controller.

⚠ **Caution**: Welch Allyn CardioPerfect Workstation was not optimized to be operated using a finger to interact with the touchscreen. User Interface controls are sized for mouse and stylus use. Finger touch should not be used.

**Caution**: Do not use Windows 8 high contrast theme.

# Thin-client system requirements

To work with CPWS software in thin-client environment, you need the following minimum recommended configuration:

| Item | Resting ECG | Spiro | ABP | Server |
|---|---|---|---|---|
| Configuration | Tower or desktop PC preferred; laptop or tablet | Tower or desktop PC preferred; laptop or tablet | Tower or desktop PC preferred; laptop or tablet | Tower or desktop PC |
| CPU | P4 (or equivalent) or higher | P4 (or equivalent) or higher | P4 (or equivalent) or higher | P4 (or equivalent) or higher |
| Hard disk | 5 MB free space | 5 MB free space | 5 MB free space | 120 GB with 40 GB free space |
| RAM | 512 MB, 1 GB or higher recommended | 512 MB, 1 GB or higher recommended | 512 MB, 1 GB or higher recommended | 1 GB or higher |
| Monitor resolution | 1024x768 high color, 1280x1024 recommended | 1024x768 high color, 1280x1024 recommended | 1280x1024 high color, 1280x1024 recommended | N/A |
| Monitor size | 15" or higher | 15" or higher | 15" or higher | N/A |
| Ports | USB | USB or serial | USB or serial | N/A |
| Connection technology | PerfectLink® | PerfectLink® | COM port forwarding | N/A |
| Operating system[1] | XP SP2 or later, XP embedded, Vista Business SP1 or later, Windows 7 Home Premium, Professional, or Ultimate, Windows 8 or Windows 8 Pro | XP SP2 or later, XP embedded, Vista Business SP1 or later, Windows 7 Home Premium, Professional, or Ultimate, Windows 8 or Windows 8 Pro | XP SP2 or later, Vista Business SP1 or later, Windows 7 Home Premium, Professional, or Ultimate, Windows 8 or Windows 8 Pro | Windows Server 2003, 2008, 2008 R2. The server must not be configured as Primary or Back-up Domain Controller. |
| Peripherals | Color printer recommended for Spirometry Compatible with inkjet and laser printers | | | |

[1]    Both 32- and 64-bit operating systems are supported.

PerfectLink® is available on the CardioPerfect installation disc.

## About the database

CardioPerfect can use these database engines:

- Microsoft SQL Server 2008 R2 and Microsoft SQL Server 2008 R2 Express

- Microsoft SQL Server 2008 and Microsoft SQL Server 2008 Express

- Microsoft SQL Server 2005 and Microsoft SQL Server 2005 Express

- Microsoft SQL Server 2000

- Microsoft SQL Server 7

- Microsoft MSDE database (a runtime version of MS SQL Server 7 / 2000)

**Note**: To use with CardioPerfect, existing SQL Server installations must have mixed-mode authentication enabled.

## Database installation

The database installation process installs either the Microsoft MSDE database engine or the Microsoft SQL Server 2005 Express engine, or the Microsoft SQL Server 2008 R2 Express engine depending on your installation selection, and creates a database named ccdb in an instance named CARDIOPERFECT. This database contains all information generated by CPWS. A second database called ccdb_audit is installed for maintaining an audit trail when enabled.