

Midmark® IQecg, Midmark® Digital ECG, Midmark® Digital Spirometer, Midmark IQvitals® Zone™ and Midmark® Digital Vital Signs Device

Software versions:

- Midmark IQecg v10.3.0 or later (Midmark Digital ECG supports the 60601-2-25 Standard in v10.3.0 or later)
- Midmark Digital Spirometer v11.1.0 or later
- Midmark IQvitals v11.1.0 or later (*Digital Vital Signs Device and IQvitals Zone*)

*Operating Systems (OS)	Windows 11 Professional or Enterprise Windows Server 2022 or 2025
Hardware Requirements	Windows compatible personal computer
CPU	Intel Core i5 8th generation (or AMD equivalent) or newer
Disk	>25 GB free disk space after OS is installed.
Memory	Minimum 16 GB of system memory
Input/Output Ports Per Device	One (1) USB 3.0 port: The above computer port is required to communicate with IQECG, Digital ECG, Spirometry or IQVitals Zone device for any new test acquisitions. It is not required to review and/or edit test data. One (1) USB-C port: The above computer port is required to communicate with the Digital Vital Signs Device for any new test acquisitions. It is not required to review and/or edit test data. Additional USB ports as needed for keyboard, mouse, printer, flash card reader, etc.
Pointing Device	Windows compatible mouse
Keyboard	Windows compatible keyboard
Display	1024x768 or higher resolutions for the real-time acquisition screen. 16-bit color. Wide-screen (1680x1050) is highly recommended.
Printer	Microsoft Windows compatible inkjet or laser printer
Surge Protector	One (1) hospital-grade power surge protector for the computer system
Additional Requirements	Please note, only IQvitals Zone firmware v0.14.4 or later is compatible with IQvitals plugin v11.1.0 and later.

Note:

The above are the minimum computer/system requirements for operating the Midmark products stated. A faster CPU, additional hardware and/or more memory may be needed, depending on the IT environment.

*The Operating System is a hard requirement. Installing or operating the above Midmark software product(s) on Windows operating systems other than those listed is not recommended or supported.

Midmark IQmanager®

Software versions:

- Midmark IQmanager v10.2.3 or later

*Operating Systems (OS)	Windows 11 Professional or Enterprise Windows Server 2022 or 2025
Software Requirements	Microsoft .NET Framework 4.6.2 (included with installer) C++ Redistributable 2019 (included with installer)
Database	Microsoft SQL Server 2022 or later (SQL Server 2022 Express is included with installer) >10 GB of free disk space for the database
Hardware Requirements	Windows compatible personal computer
CPU	Intel Core i5 8th generation (or AMD equivalent) or newer
Disk	>25 GB free disk space after OS is installed
Memory	Minimum 16 GB of system memory
Input/Output Ports Per Device	One (1) USB 3.0 port: The above computer port is required to communicate with IQECG, Spirometry or IQVitals Zone device for any new test acquisitions. It is not required to review and/or edit test data. One (1) USB-C port: The above computer port is required to communicate with the Digital Vital Signs Device for any new test acquisitions. It is not required to review and/or edit test data. Additional USB ports as needed for keyboard, mouse, printer, flash card reader, etc.
Pointing Device	Windows compatible mouse
Keyboard	Windows compatible keyboard
Display	1024x768 or higher resolutions for the real-time acquisition screen. 16-bit color. Wide-screen (1680x1050) is highly recommended.
Printer	Microsoft Windows compatible inkjet or laser printer

Note:

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Midmark diagnostic devices may have additional computer hardware requirements. Please refer to the operation manual or other sections of this document for the specific Midmark device.

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Midmark Connect for Cerner (MCC)

Software versions:

- Midmark Connect for Cerner v10.3.0 or later

Server Requirements	
Hardware Requirements	Intel Core i5 8th generation (or AMD equivalent) or newer Minimum 16 GB of system memory
*Operating Systems (OS)	Windows Server 2022 or 2025
Software Requirements	IIS 7.5 or higher, .NET 8
Database	Microsoft SQL Server 2022 or later Standard Edition >10 GB of free disk space for the database
Client Requirements	
*Operating Systems (OS)	Windows 11 Professional or Enterprise Windows Server 2022 or 2025
Software Requirements	Microsoft .NET Framework 4.6.2
HL7 Interface Engine Requirement	
Mirth	Mirth® Connect v3.8.1 or higher
Qvera	QIE® Standard v4.0.47 or higher

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Midmark Connect for Altera (MCA)

Software versions:

- Midmark Connect for Altera v10.1.0 or later

Server Requirements	
Hardware Requirements	Intel Core i5 8th generation (or AMD equivalent) or newer Minimum 16 GB of system memory
*Operating Systems (OS)	Windows Server 2022 or 2025
Software Requirements	IIS 7.0 or higher, .NET Framework 4.6.2
Database	SQL Server 2019 or later >10 GB of free disk space for the database
Client Requirements	
*Operating Systems (OS)	Windows 11 Professional or Enterprise Windows Server 2022 or 2025
Software Requirements	Microsoft Edge® 106 or later or Google Chrome™ 106 or later, .NET Framework 4.6.2, Altera™ TouchWorks® EHR Client software.

Note:

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Midmark diagnostic devices may have additional computer hardware requirements. Please refer to the operation manual or other sections of this document for the specific Midmark device.

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IQiC

Software versions:

- IQiC v10.1.0 or later

*Operating Systems (OS)	Windows 11 Professional or Enterprise Windows Server 2022 or 2025
Hardware Requirements	Windows compatible personal computer
CPU	Intel Core i5 8th generation (or AMD equivalent) or newer
Disk	>25 GB of free disk space after OS is installed
Memory	Minimum 16 GB of system memory
Pointing Device	Windows compatible mouse
Keyboard	Windows compatible keyboard
Display	1024x768 or higher resolutions for the real-time acquisition screen. 16-bit color. Wide-screen (1680x1050) is highly recommended.
Optical Drive	N/A

Note:

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Midmark Connect for Epic® (MCE and IQiE)

Software versions:

- Midmark Connect for Epic (MDL Only) v12.3.0 or later
- Midmark Connect for Epic (MDL PDF) v12.1.0 or later
- IQiE v10.1.0 or later

Server Requirements	
Hardware Requirements	Intel Core i5 8th generation (or AMD equivalent) or newer Minimum 16 GB of system memory
*Operating Systems (OS)	Windows Server 2022 or 2025
Software Requirements	IIS 7.5 or higher, .NET 8, .NET Framework 4.6.2 HTTPS (Signed SSL Certificate)
Client Requirements	
*Operating Systems (OS)	Windows 11 Professional or Enterprise Windows Server 2022, or 2025
Software Requirements	Microsoft .NET Framework 4.6.2 Microsoft Edge® 93 or later Google Chrome™ browser 93 or later Epic® Hyperdrive® EHR and select Epic® Hyperspace® Client software February 2022 or later, contact Epic® for more details. Please note: Microsoft Remote Terminal Services (RDP/RDS) are not supported currently.
PDF Generation Requirement	
Hardware Requirements	Intel Core i5 8th generation (or AMD equivalent) or newer Minimum 16 GB of system memory
*Operating Systems (OS)	Windows Server 2022 or 2025
Software Requirements	IIS 7.5 or higher, .NET 8, .NET Framework 4.6.2

Performance Expectations	<p>Midmark Connect for Epic supports the use of multiple PDF Generation Servers. Enabling more PDF Servers will increase the performance of the system.</p> <p>The table below is based on performance testing using a computer that meets the above-mentioned system requirements and utilizing a 30-second PDF return cutoff.</p>		
	# of PDF Servers	Max Simultaneous Requests	Max Asynchronous Requests per min
	1	10	45

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IQpath®

Software versions:

- IQpath RDP v3.1.0 or later
- IQpath Citrix v3.1.0 or later
- IQpath VMware v3.1.0 or later

Server Requirements	
*Operating Systems (OS)	Windows Server 2022 or 2025 <i>Service Packs or hotfixes may be needed.</i>
Software Requirements	Windows Terminal Services Citrix XenApp and XenDesktop v7.6 VMware Horizon® 8 Connection Server v8.8.0
Client Requirements	
*Operating Systems (OS)	Windows 11 Professional or Enterprise
Software Requirements	Microsoft Remote Desktop Connection VMware Horizon® Client v8.8.0 Citrix Receiver Version v14.1 *Please note: Spiro does not support VMware 8.8.0; it supports up to VMware v8.5.0.
Hardware Requirements	Desktop PCs (full client), laptops, notebooks, tablet computers, or thin client terminals (for IQpath the computer needs enough free space to install the required software).

<p>Input/Output Ports Per Device</p>	<p>One (1) USB 3.0 port: The above computer port is required to communicate with IQECG, Spirometry or IQVitals Zone device for any new test acquisitions. It is not required to review and/or edit test data.</p> <p>One (1) USB-C port: The above computer port is required to communicate with the Digital Vital Signs Device for any new test acquisitions. It is not required to review and/or edit test data.</p> <p>Additional USB ports as needed for keyboard, mouse, printer, flash card reader, etc.</p> <p>IQecg v10.3.0 or later version no longer supports serial devices (COM ports).</p>
<p>Network Bandwidth</p>	<p>See 61-78-0001 Thin Client Manual IQpath Section II-A and II-C for more details.</p>
<p>Midmark Device Hardware</p>	<p>See 61-78-0001 Thin Client Manual IQpath Section II-A for more details.</p> <p>IQecg v10.3.0 or later no longer supports serial devices (COM ports).</p> <p>Digital Spirometer v11.1 no longer supports serial devices (COM ports).</p>

Note:

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Since network structures, topologies, and platforms differ between thin client deployments, the following requirements may vary slightly. Midmark strongly recommends setting up a validated pilot project in a lab environment before deploying in a production setting.

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*For server environments with multiple users/sessions, please ensure that an adequate amount of memory is allocated per user to prevent potential performance issues.

Midmark EMR Installers

Software versions:

- Midmark EMR Installers v10.2.0 or later

*Operating Systems (OS)	Windows 11 Professional or Enterprise Windows Server 2022 or 2025
Software Requirements	Microsoft .NET Framework 4.6.2 (included with installer) C++ Redistributable 2019 (included with installer)
Database	Microsoft SQL Server 2022 or later (SQL Server 2022 Express is included with installer) >10 GB of free disk space for the database
Hardware Requirements	Windows compatible personal computer
CPU	Intel Core i5 8th generation (or AMD equivalent) or newer
Disk	>25 GB free disk space after OS is installed
Memory	Minimum 16 GB of system memory
Input/Output Ports Per Device	One (1) USB 3.0 port: The above computer port is required to communicate with IQECG, Digital ECG, Spirometry or IQVitals Zone device for any new test acquisitions. It is not required to review and/or edit test data. One (1) USB-C port: The above computer port is required to communicate with the Digital Vital Signs Device for any new test acquisitions. It is not required to review and/or edit test data. Additional USB ports as needed for keyboard, mouse, printer, flash card reader, etc.
Pointing Device	Windows compatible mouse
Keyboard	Windows compatible keyboard
Display	1024x768 or higher resolutions for the real-time acquisition screen. 16-bit color. Wide-screen (1680x1050) is highly recommended.
Printer	Microsoft Windows compatible inkjet or laser printer

Note:

The above are the minimum computer/system requirements for operating the Midmark products stated. A faster CPU, additional hardware and/or more memory may be needed, depending on the IT environment.

Midmark diagnostic devices may have additional computer hardware requirements. Please refer to the operation manual or other sections of this document for the specific Midmark device.

*The Operating System is a hard requirement. Installing or operating the above Midmark software product(s) on Windows operating systems other than those listed is not recommended or supported.

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