



IM 2023, V9.00.30

SPECIFICATIONS

System Specifications

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Because each customer situation is unique, discuss system requirements with Data Innovations® Sales and Technical teams prior to any purchase. For budgetary and planning considerations, Data Innovations has outlined three categories of system specifications to provide guidelines for the type of system that will best suit the intended use of Instrument Manager™ (IM) and your production volume.

Low Complexity	Medium Complexity (1)	High Complexity (1)
<ul style="list-style-type: none">Lower volume environments (less than 1,000 samples per day)Instrument Manager used for connectivity-only (pass-through)Minimal use of additional IM modules	<ul style="list-style-type: none">Moderate production volumes (1,000-10,000 samples per day)Used for connectivity and active lab operationsData review with Rules for some instruments (other instruments connectivity-only)Light use of additional IM modulesModerate use of data Archiving	<ul style="list-style-type: none">Moderate to heavy production volumes (more than 10,000 samples per day)Heavy use system and lab environmentSignificant use of Rules for AutoverificationMultiple users reviewing results in workspacesMultiple additional IM modules in useLonger term data archiving
System Specifications (2)	System Specifications (2)	System Specifications (2)
<ul style="list-style-type: none">4 GB of RAM80 GB HD (can be multiple drives)Dual Core ProcessorSupported 64-bit OSMicrosoft® .NET Framework 4.6.2 or higher	<ul style="list-style-type: none">8 GB of RAMUp to 1+ TB HD (can be multiple drives)Quad Core ProcessorSupported 64-bit Server OSMicrosoft .NET Framework 4.6.2 or higher	<ul style="list-style-type: none">12-16 GB of RAMUp to 5+ TB HD (can be multiple drives)8 Core ProcessorSupported 64-bit Server OSMicrosoft .NET Framework 4.6.2 or higher
Supported Microsoft Operating Systems (64-bit)		
<ul style="list-style-type: none">Windows® 10 ProfessionalWindows 11 Professional	<ul style="list-style-type: none">Windows Server® 2016Windows Server 2019	<ul style="list-style-type: none">Windows Server 2022
Minimum Supported CPU Models		
<p>InterSystems IRIS for Health™ now has set a minimum CPU instruction set policy for Intel and AMD processors. All CPUs must have the AVX and BMI instructions, which are generally available on the following CPU architectures:</p> <ul style="list-style-type: none">For Intel processors: Haswell and upFor AMD processors: Steamroller and up		
Mirroring and Read/Write Reporting Systems		
<p>Disaster Recovery and High Availability both use mirroring technology.</p> <ul style="list-style-type: none">The specifications must match the system chosen for the Acting Primary.Ports 2188 and 443 are needed for Mirroring. <p>High Availability systems use Arbiters, which have these specifications:</p> <ul style="list-style-type: none">4 GB of RAM21 MB of disk space for installationDual Core ProcessorSupported 64-bit OSRequires a system that operates 24/7, but does not need to be dedicated to this softwareMust not be installed/running on the Acting Primary or secondary mirror system	<p>Read/Write Reporting systems, used for Laboratory Intelligence: Specifications must match those of the Acting Primary system, plus an additional 20% storage for indexing.</p>	

End User Specifications

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Thin Client Deployment

Suggested Operating Systems ^(3,4)	Installation Requirements
Same as Primary system	<ul style="list-style-type: none">• Microsoft .NET Framework 4.6.2 or higher• Administrative privileges – Local Administrator login or local user account access with administrator privileges
Memory Specifications ⁽⁴⁾	Usage Requirements
256 MB (16 MB additional memory required on the base system)	<ul style="list-style-type: none">• Read, write, and delete access to the shared Instrument Manager folder on the base Instrument Manager workstation• Local user access – on the Thin Client Computer workstation
Hard Disk Specifications ⁽⁴⁾	Network Specifications ⁽⁵⁾
<ul style="list-style-type: none">• Approximately 50 MB for the installation• 7200 RPM or higher	<ul style="list-style-type: none">• Network interface card installed (NIC)• TCP/IP networking installed• Remote Procedure Call (RPC services) must be running for driver configuration.• Ports 1972, 57772, and 443 are required to communicate with InterSystems IRIS for Health.• Port 445 is required for file sharing to support the Thin Client.
Hardware ⁽⁶⁾	Supported Browsers
Monitor with minimum 1024 x 768 resolution (1920 x 1080 for web user interface content), keyboard, mouse, CD/DVD drive for install disk, and an optional bar code scanner	<ul style="list-style-type: none">• Microsoft Edge®• Google Chrome® <p>NOTE Data Innovations validates these browsers. We suggest you perform validation testing on any other browsers you use.</p>

Browser-Based Deployment (Microsoft Remote Desktop)

- Client computers must have a version of Remote Desktop Connection (RDC) that supports at least Remote Desktop Protocol (RDP) 6.1.
- Minimum 256 MB of additional memory allocated on the server per client PC connected.

Open Database Connectivity (ODBC)

The InterSystems ODBC driver must be loaded and a System Data Source Name (DSN) connection must be established. You must use InterSystems' ODBC driver with ODBC Database Access (IM-ODBC-01).

1. Data Innovations recommends distribution of IM files across multiple hard drives for medium-high complexity IM systems with high production volumes. Refer to the *Move files for improved performance* topic in the IM Help for additional information.
2. Contact Data Innovations' Sales by calling (888) 299-1750 or emailing northamerica-sales@datainnovations.com to discuss the specific intended use of Instrument Manager and production volumes prior to purchasing computer equipment.
3. Microsoft server class operating systems support a maximum of five Thin Clients out of the box. Additional Thin Clients can be supported by purchasing additional Client Access Licenses (CALs) from your authorized Microsoft distributor.
4. The specifications listed are necessary for Instrument Manager Thin Client use. Remember to include operating system and other application software and hardware requirements to ensure full functionality.
5. It is recommended that the Primary Instrument Manager system be installed with a Static IP address.
6. The Bar Code Scanner to be used with Specimen Storage and Retrieval (SSR), Manual Result Entry (MRE), and Specimen Management (SM) Workspace within Instrument Manager.



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About Data Innovations

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