



SHOWCASE[®] Image Center

Hardware and Software Specifications

Recommended Specifications

- 2.0 GHz or faster CPU, i5 quad core equivalent or better
- 8 GB RAM minimum, 16 GB preferred
- 2 TB or more of free disk space, not on the C: drive.
- 64-bit Windows OS: Windows 10, 11 or Server 2016, 2019, 2022, 2025.
- Static IP address (IPV4)
- VPN (if there will be access from outside of the LAN)

CPU

The largest CPU demands come from the SQL Server and the iPad image compressor. It is rare for even a low-grade system to run at 100% CPU. However, if you run other applications or services on the same machine as the Image Center, you may need a more powerful processor.

Memory

16 GB is preferred. Adding more memory will not necessarily improve performance but may be necessary if other applications are running on the computer.

Network Speed

Network bottlenecks occur at the “weakest link” in the network chain from the Image Center to the PC where images are viewed. This is typically the site’s outbound Internet connection or a slow VPN. Slowdowns are rarely caused by the Image Center software or the server’s network hardware.

Disk Space

The Image Center requires a minimum of 50G of free space on the C: drive for proper operation. If free space drops below 20G the Image Center will stop accepting studies from imaging machines to avoid errors in transmission.

Study Storage

The Image Center stores your DICOM images and other DICOM data in folders called Image Directories. A single Image Directory can manage 200,000+ studies. Most states require that you maintain an archive of this data for 7 years or more, so the choice of where you store your data is important. We strongly recommend using quality hard drives with lots of space in conjunction with offsite backup (like Carbonite, for example).

Do not use your C: drive to store studies. See the [Image Directory Creation and Maintenance](#) guide for full details on what is needed for your study data, but it’s best to assume you will need many terabytes of storage, even for a small practice.

A Dedicated Server is not Required

The ShowCase Image Center is designed to run on consumer grade hardware, but server-grade hardware is preferred for greater reliability. The Image Center can be installed alongside other applications or on servers that host file shares, but should never be installed on older hardware or a machine that is sluggish or showing signs of overload.

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