SHOWCASE® Image Center
Hardware and Software Specifications

Recommended Specifications

- 2.0 GHz or faster CPU, i5 quad core equivalent or better
- 4GB RAM minimum, 8GB preferred
- 1 TB or more of free disk space
- 64-bit Windows OS: Windows 10, 11 or Server 2016, 2019, 2022.
- 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

8 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 receiving PC. 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

On average, a study takes up 150 MB of disk space. To budget two years of disk space, use the formula:

150 MB x (# studies/day) x (250 working days/year) x (2 years) = ? MB

Example: 150MB x 40 studies/day x 250 working days x 2 years = 3,000,000 MB or 3 Terabytes

The Image Center stores your DICOM images and 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) for your Image Directory folder(s).

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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