

Summit Imaging Server Requirements

1/6/16

Summit Imaging can provide a turn-key server solution by supplying a Dell PowerEdge server with the necessary Microsoft Windows Server and Microsoft SQL Server licenses / device CALs. To receive a complete “turn-key” server quote please contact Summit Imaging. Many of our customers choose to provide their own server backend. This document describes the various configurations and software versions required by Summit Imaging. **Should a customer choose to provide their own server to support our application they would also need to provide the needed Microsoft Windows Server and Microsoft SQL Server licensing / device CALs.**

Summit Imaging’s backend requires three specific roles (1: Microsoft Windows Server, 2: a Microsoft SQL Server, and 3: network file share). These roles are commonly installed into a single physical or virtual box, but these roles may also be divided across one or more servers to suit our customer’s specific needs for high availability or redundancy reasons. Below are the specific versions of Windows Server and SQL Server we support.

- **Microsoft Windows Server**

- Standard or Enterprise Editions
- 2008 R2
- 2012
- 2012 R2
- 2016



- **Microsoft SQL Server**

- Standard or Enterprise Editions,
 - Enterprise edition is required for encrypting data at rest.
 - **SQL Express not supported**
- 2008 R2
- 2012
- 2014
- 2016





Summit Imaging fully supports virtual servers powered by VMWare and Microsoft Windows Hyper-V. Other virtual server environments may also be supported but these are the two most common.

Virtual server specifications greatly depend on server load. Below recommendations are assuming server will be 100% responsible for all backend processes. Specifications could be reduced if various backend components are spread across 1 or more servers.

Virtual Server Specifications

1-10 Exam Rooms

- Processor: 2
- Ram: 8 GB
- Disk Drives:
 - C – OS Drive = 80GB
 - D – Data Drive = 250 – 500 GB
- Operating System: Windows Server 2008 R2 or higher

10-15 Exam Rooms

- Processor: 2 - 4
- Ram: 8 – 16 GB
- Disk Drives:
 - C – OS Drive = 100GB
 - D – Data Drive = 500 – 1000 GB
- Operating System: Windows Server 2008 R2 or higher

Remote application support

Summit Imaging's physician report writing module may be deployed on both traditional physical clients PCs and thin client PCs. Should an EndoManager Enterprise license be purchased we would require the customer to deploy our report writing application using Citrix or Windows Terminal Services. Please note, only the physician's report writer may be deployed using remote app. Our image capture application requires physical components which require a fat client.



Physical Server Specifications



Should you wish Summit Imaging to supply a physical server as a “turn-key” solution we would provide a Dell Precision 3000 or Dell PowerEdge R320, R620, or R720 depending on the size and scope of the project. We can easily supply either a rack mount or tower server. Most often the supplied server will only require 1U of rack space with the exception of the R720 which requires 2Us. We will supply a server with a minimum of a RAID 1 configuration and larger servers will be configured with RAID 5. When Summit Imaging supplies the physical server we also include the necessary Windows Server and SQL licensing / CALs. Summit Imaging also includes Dell ProSupport with non-mission critical 4h response time 24/7/365 (PowerEdge servers only). This will ensure a dell part and technician be on-site within 4 hours should the need arise (PowerEdge servers only).

If you wish to provide your own physical server, please follow our sizing recommendation below.

1-2 Exam Room ASC / Doctors Office – Dell Precision 3000

- Dell Precision Tower 3620
- Windows 10 Operating System
- Microsoft SQL Express
- 6th Gen Intel® Core™ i7-6700 (Quad Core 3.40GHz, 4.0Ghz Turbo, 8MB, w/ HD Graphics 530)8GB
- Memory 16GB (2x8GB) 2133MHz DDR4 Non-ECC
- Hard Drive RAID 1
- Boot Hard Drive 2TB 3.5inch Serial ATA (7,200 Rpm) Hard Drive
- 2nd Hard Drive 2TB 3.5inch Serial ATA (7,200 Rpm) Hard Drive

1-5 Exam Rooms – Dell PowerEdge R320

- Intel® Xeon® X3430, 2.4 GHz, 8M Cache, Turbo
- 8GB Memory (2x4GB), 1333MHz, Dual Ranked UDIMM
- RAID 1 - Add-in SAS6iR/H200/H700 (SAS/SATA Cntrlr), 2 Hard Drives
- SAS 6iR SAS internal RAID adapter, PCI-Express for Hot Plug Hard Drive Configuration
- 2 X 500GB 7.2K RPM SATA 3.5" Hot Plug Hard Drive

- 3 Year ProSupport for IT 4HR 7x24 Onsite: Non Mission Critical
- PowerEdge R310 Chassis, Up to 4 Hot Plug Hard Drives and LCD diagnostics
- 2x Power Cord, NEMA 5-15P to C13, wall plug, 10 feet
- Sliding Ready Rails with Cable Management Arm
- DVD-ROM Drive, SATA
- Redundant Power Supply
- On-Board Dual Gigabit Network Adapter

6-10 Exam Rooms – Dell PowerEdge R320

- Intel® Xeon® X3440, 2.53 GHz, 8M Cache, Turbo, HT
- 8GB Memory (4x2GB), 1333MHz Single Ranked UDIMM
- RAID 5 - Add-in H700 (SAS/SATA Cntrlr), 3-4 Hot Plug Hard Drives
- 3 X 500GB 7.2K RPM SATA 3.5" Hot Plug Hard Drive
- 3 Year ProSupport for IT 4HR 7x24 Onsite: Non Mission Critical
- PowerEdge R310 Chassis, Up to 4 Hot Plug Hard Drives and LCD diagnostics
- 2x Power Cord, NEMA 5-15P to C13, wall plug, 10 feet
- Sliding Ready Rails with Cable Management Arm
- DVD-ROM Drive, SATA
- Redundant Power Supply
- On-Board Dual Gigabit Network Adapter

11-15 Exam Rooms – Dell PowerEdge R620

- Intel® Xeon® X3470, 2.93 GHz, 8M Cache, Turbo, HT
- 16GB Memory (8x2GB), 800MHz Single Ranked RDIMMRAID 5 for PERC6i/H700 Controllers
- RAID 5 - Add-in H700 (SAS/SATA Cntrlr), 3-4 Hot Plug Hard Drives
- 3 X 1TB 7.2K RPM SATA 3.5" Hot Plug Hard Drive
- 3 Year ProSupport for IT and Mission Critical 4HR 7x24 Onsite Pack
- PowerEdge R620 Chassis, Up to 4 Hot Plug Hard Drives and LCD diagnostics
- 2x Power Cord, NEMA 5-15P to C13, wall plug, 10 feet
- Sliding Ready Rails with Cable Management Arm
- DVD-ROM Drive, SATA
- Redundant Power Supply
- On-Board Dual Gigabit Network Adapter

15+ Exam Rooms / Large Multi-Hospital – Dell PowerEdge R720

- Custom configuration based on facility size.