

## Hardware / Network Considerations/Technical FAQs

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Mellowood Medical is a software developer. We do not supply, install or support hardware. The following are recommendations only.

IDEAS is available in both File Server and Client Server versions:

- i. Visual FoxPro 8.0/9.0 (File Server)
- ii. Microsoft SQL Server (2000/2005). CALs to be acquired separately

### Server Specifications

- Minimum (Fileserver): Pentium III 256 MB Ram+ with 500 MB free hard disk space per 1000 treatment cycles [Minus images and external documents]
- Recommended (Fileserver, Client Server):
  - (Up to 10 Clients) Intel P4 2.4 GHz, 1GB Ram, 80+ GB disk space
  - (11-20 Clients) Intel P4 2.4 GHz, 1- 2 GB Ram, 80+ GB disk space
  - (21-50+Clients) Dual Intel P4 2.4 GHz, 2-4 GB Ram, 80+ GB disk space
- Operating system: Microsoft Windows 2000/2003 Server or Advanced Server
- RAID array recommended
- UPS in event of power failure
- Remote Control via Web (Terminal Server/Citrix Server - concurrent users):
  - (1-10) Clients) Intel P4 2.4 GHz, 2 GB Ram
  - (11-50+ Clients) Dual Intel P4 2.4 GHz, 4 GB Ram
- If separate webserver is used there should be at least 100MB network connection to the Citrix Server

### Workstation Computers (with network cards)

- Minimum: Pentium III (1 GHZ +) or better; 256 MB Ram or better with 500 MB free hard disk space
- Recommended: Pentium IV or AMD equivalent: 512 MB Ram or better
- Operating system: All Windows post '98. Recommended: XP Professional/XP Tablet PC 2005

For Image Capture:

- PC at point of image capture: P IV or AMD equivalent, 1 GHZ or better; 512 MB Ram; Video Capture Card; USB 2.0 recommended
- Composite or S-Video out to notebook computer via USB port (USB 2.0)

### Monitor

- Monitor Resolution: 1024x768 or higher; 17 inch or larger recommended for Terminals  
Dual monitors for simultaneous viewing of Management Module; Tablet computers  
14.1inch or larger (1024x768 – recommended -- or higher resolution)
- Touch Screen monitors (Resistive Touch) to utilize touch entry function in Ultrasound and Embryo Scoring modules

### Other Software

- Microsoft Office 2000 – preferred 2003 -- [For Letter Generation in Word; Excel for Query Designer; Outlook for Appointments]

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## Technical Specifications for IDEAS V.5

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### General

- Relational Database Management System (RDBMS)
- Language: Microsoft Visual FoxPro Version 8.0/9.0
- Database: Visual FoxPro Database Engine or MS-SQL server 2000/2005 or later
- 32-bit Windows application in either File Server database or Client server database mode
- Conforms to Universal Naming Conventions (UNC)
- Integrates with MS Office 2000 or later (required to run certain modules)
- No other peripherals (other than printers) required
- Report generation: Crystal Reports (v.10) run time license included; Visual FoxPro
- HL7 Messaging Engine: V. 2.3, 2.4. Inbound and Outbound through TCP/IP

### Security

- Logon to IDEAS independent of operating system logon
- Password secured entry to IDEAS
- Other user level security permissions for various modules
- Server permissions: read / write dbfs directory
- Auto log-off provisions; secure sign-off for records (time/date/user stamp)

### Installation

- From CD-ROM or over Internet
- Performed by customer or MellowoodMedical support team

### Training

- Subject to additional charge

### Support

- Support provided by telephone (9:00 am- 4:00 pm Local), fax, electronic mail, after-hours internet based support
- Remote access or remote control support (Dedicated IP Address with MS terminal services, Citrix® or equivalent)

### Upgrades / customizations / interfaces

- Major upgrades released approximately every 18 months to 2 years
- Individual customizations provided on request
- Machine interfaces include: DPC Immulite; Biomerieux VIDAS; Hamilton Thorne IVOS/ZILOS; Beckman-Coulter Access 2.
- Interface options: ODBC; HL7

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## Technical FAQ for IDEAS V.5

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### **What about image file types? And cameras? I have a Firewire port for the camera.**

- Our imaging software can handle any windows compatible image type. 720x480 has proven a reasonable compromise between quality and file size. But the choice is yours. If your camera has the Windows drivers then we can handle it. 'Firewire' is not a limitation either (though USB 2.0 is at least as fast).

### **What size are the images likely to be?**

- That depends on the resolution one chooses to use. JPEG images of 640 x 480 are approx.100 – 200k.

### **Should terminal services be used from remote sites or is Citrix required?**

- Terminal services are fine. IDEAS has been used in both terminal service and Citrix environments.

### **Does IDEAS store Word documents or any other type of data outside of the SQL database?**

- Yes.

### **SQL Server version: How is the backup organized – via a SQL dump file?**

- The backup strategy is left up to the clinic. For the SQL-Server version that means that it should be integrated with your existing SQL-server strategy. A backup of the IDEAS folder is periodically necessary because the patient documents are stored there.

### **FoxPro version: What do we need to backup the application's database correctly? Do we need to copy the folder or is there more to it?**

- Yes, the server directory storing IDEAS, and all of its sub-directories of course, will be sufficient to backup IDEAS. This assumes that no one else has instructed clinic personnel to put IDEAS-related information outside of the IDEAS directory structure.

### **Does IDEAS run under Oracle? What about Novell Networks?**

- IDEAS is designed to run optimally in a Windows environment. We cannot guarantee performance under any other database or network. However, we have considerable experience in interfacing with other Databases using either ODBC or HL7 communication protocols.

### **What about Disk Partitioning/Ratios?**

- To take an example of a 210 GB Drive, we would recommend a partitioning into 20 GB and 190 GB.

### **Is IDEAS compatible with Tablet PCs?**

- Absolutely! IDEAS utilizes the handwriting and voice recognition technologies built-in to Windows XP Tablet PC Edition 2005.

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