mikr⊖scan

IT Requirements: L5 Real-Time Telemicroscopy System

General Requirements

Bandwidth	Minimum: 1.5MBps Network Speed Recommended: 6-10MBps Network Speed	
Network Requirements		
Separate Networks	Port 443 (default) is required	
Same Network	Three consecutive ports (6783, 6784, 6785 as defaults) required	

Remote Access: Client Requirements

	Windows Client (Minimum)	Windows Client (Recommended)	Mac Client (Minimum)	Mac Client (Recommended)
CPU	Intel Atom family CPU	Intel i7	1.6 Ghz dual-core	Intel i7
Memory	1GB	4GB	1GB	4GB
Graphics	GMA	NVIDIA GeForce		
Resolution	1024x600	1024x600 or above		
Operating System	Windows Vista or XP	Windows 7, 8 or 10	Mac OS X 10.6	Mac OS X 10.8 or above

Remote Access: Server Requirements

On premise installation of management and relay gateway requires a server or VM with the following specifications:

	Minimum Requirements	Recommended Specification	
CPU	Intel i5 2.0Ghz or above Intel i7, Xeon E31220 or other high-end CPU		
RAM	4GB or more	8 GB or more	
Disk Space	20GB	50 GB	
Operating Systems	Windows7 Professional	Windows Server 2012	
	Windows7 Enterprise	Windows Server 2008 R2 Standard	
	Windows7 Ultimate	Windows Server 2008 R2 Enterprise	
	Windows 8	Windows Server 2008 R2 Data Center	
	Windows 10	Windows Server 2008 R2 Web Edition	
.NET Framework	Microsoft .NET 3.5 SP1 or later	Microsoft .NET 3.5 SP1 or later	
Others	Java 7 (Installer bundles by default)	Java 7 (Installer bundles by default)	
	Run with Windows Admin privilege	Run with Windows Admin privilege	

Network One IP address and domain name:

Cross-firewall remote sessions- public IP address or within firewall set port to forwarding to the public IP to private IP in your firewall. One port: On-premise Gateway and Relay port: Ensure port 443 is not blocked by a firewall.

Data Security

Encryption	ryption Secure Socket Layers (SSL) AES 256	
Transmission Security Protocol IETF-Standard Transport Layered Security (TLS)		
Cipher Suite Restrictions 2048 bit ECDH-RSA with 256-bit AES-CBC and SHA1		
Integration with Active Directory	With onsite deployment only	