

## IT Requirements: Live Telemicroscopy Mode

### General Requirements

<b>Bandwidth</b>	Minimum: 1.5Mbps Network Speed Recommended: 6-10Mbps Network Speed
<b>Network Requirements</b>	
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)
<b>CPU</b>	Intel Atom family CPU	Intel i7	1.6 Ghz dual-core	Intel i7
<b>Memory</b>	1GB	4GB	1GB	4GB
<b>Graphics</b>	GMA	NVIDIA GeForce	--	--
<b>Resolution</b>	1024x600	1024x600 or above	--	--
<b>Operating System</b>	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
<b>CPU</b>	Intel i5 2.0Ghz or above	Intel i7, Xeon E31220 or other high-end CPU
<b>RAM</b>	4GB or more	8 GB or more
<b>Disk Space</b>	20GB	50 GB
<b>Operating Systems</b>	Windows7 Professional Windows7 Enterprise Windows7 Ultimate Windows 8 Windows 10	Windows Server 2012 Windows Server 2008 R2 Standard Windows Server 2008 R2 Enterprise Windows Server 2008 R2 Data Center Windows Server 2008 R2 Web Edition
<b>.NET Framework</b>	Microsoft .NET 3.5 SP1 or later	Microsoft .NET 3.5 SP1 or later
<b>Others</b>	Java 7 (Installer bundles by default) Run with Windows Admin privilege	Java 7 (Installer bundles by default) Run with Windows Admin privilege

<b>Network</b>	<p><i>One IP address and domain name:</i> Cross-firewall remote sessions- public IP address or within firewall set port to forwarding to the public IP to private IP in your firewall. <i>One port:</i> On-premise Gateway and Relay port: Ensure port 443 is not blocked by a firewall.</p>
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### Data Security

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