

Server – IP Server Sample Configurations

20 H.264 CAMERAS STREAMING 1.5MBPS

- Dell Optiplex 7010 (or equivalent) with Intel Core i5 3.30 GHz, with 4GB, 3TB of Storage, Intel HD 2500 Graphics, and Windows 7 Professional
- CPU Performance
- Using Camera-Side Motion Detection
- Server Only CPU utilization at 10%
- Monitor Station Client displaying 4 Live Windows CPU utilization at 25%
- Monitor Station Client displaying 9 Live Windows CPU utilization at 35%
- Monitor Station Client displaying 16 Live Windows CPU utilization at 45%
- Monitor Station Client displaying 20 Live Windows CPU utilization at 60%

40 H.264 CAMERAS STREAMING 1.5MBPS

- Dell Optiplex 7010 (or equivalent) with Intel Core i5 3.30 GHz, with 4GB, 3TB of Storage, Intel HD 2500 Graphics, and Windows 7 Professional
- CPU Performance
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- Server Only CPU utilization at 10%
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- Monitor Station Client displaying 20 Live Windows CPU utilization at 60%

120 H.264 CAMERAS STREAMING 1.5MBPS

- Dell PowerEdge R520 (or equivalent) 2U Rackmount with Dual Intel Xeon E5-2403 1.80GHz, with 8GB, 21TB of RAID5 Storage, Intel HD 2500 Graphics, and Windows Server 2008
- CPU Performance
- Using Camera Side Motion Detection:
- Server Only CPU utilization at 10%
- Monitor Station Client displaying 4 Live Windows CPU utilization at 25%
- Monitor Station Client displaying 9 Live Windows CPU utilization at 35%
- Monitor Station Client displaying 16 Live Windows CPU utilization at 45%
- Monitor Station Client displaying 20 Live Windows CPU utilization at 60%

240 H.264 CAMERAS STREAMING 1.5MBPS

- Dell PowerEdge R720xd (or equivalent) 2U Rackmount with Dual Intel Xeon E5-2403 1.80GHz, with 8GB, 42TB of RAID5 Storage, Intel HD 2500 Graphics, and Windows Server 2008
- CPU Performance
- Using Camera-Side Motion Detection
- Server Only CPU utilization at 10%
- Monitor Station Client displaying 4 Live Windows CPU utilization at 25%
- Monitor Station Client displaying 9 Live Windows CPU utilization at 35%
- Monitor Station Client displaying 16 Live Windows CPU utilization at 45%
- Monitor Station Client displaying 20 Live Windows CPU utilization at 60%

Client – VI Monitor and Web Client Recommended Specifications

Note: Minimum specifications depend on the number of simultaneous live images displayed.

WEB CLIENT:

The Web Client receives compressed data from the IP Server and users to local CPU to decompress and display. When viewing a single image almost any Windows based PC will work. As the number of cameras or resolution increases so do the system requirements. If the Workstation is capable, the server will send all requested images to the Web Client but if the local system is not capable of decompressing the images, the Server will automatically adjust the FPS to a lower rate.

- **Windows OS** 32 or 64bit versions of XP Pro, Win 7, Win 8, 2003, 2008 or 2012, Internet Explorer 8 or higher
- **Memory** Monitor Station will use 150MB - 400MB depending on number of cameras displayed
- **Video Card** 256MB or greater with support for Direct X version 5, 7 or 9, 11, 3D
- **CPU** The Monitor Station can use both Intel and AMD processors, but will take advantage of Intel's IPP embedded code to improve decoding performance.

VI MONITOR:

Table 4: Monitor Station hardware requirements

COMPONENT	MINIMUM	RECOMMENDED
Processor	1 2.0 GHz single-core	1 2.4 GHz dual-core
Memory	2 GB	4 GB
Video	256 MB	512 MB
Network	100 Mb/s	1 Gb/s