

## Recording Server Specification:

	<b>BASIC</b>	<b>MEDIUM</b>	<b>HIGH</b>
<b>Processor</b>	Intel Xeon E5-2640 @ 2.50GHz or higher	Intel Xeon E5-2470 2.30GHz or higher	Intel Xeon E5-2650 V2 2.6 GHz or higher
<b>Memory</b>	4 GB or higher	8GB or higher	12GB or higher
<b>Graphics Card</b>	PCI Express 1920 x 1080 Graphics with min 1 GB Video Memory	PCI Express 1920 x 1080 Graphics with min 1 GB Video Memory	PCI Express 1920 x 1080 Graphics with min 2 GB Video Memory
<b>Hard Disk</b>	3 x 300 GB	3 x 300 GB	3 x 300 GB
<b>Monitor</b>	1920 x 1080 or higher screen resolution	1920 x 1080 or higher screen resolution	1920 x 1080 or higher screen resolution
<b>Operating System</b>	Windows 64 bit OS	Windows Server OS 64 bit	Windows Server OS 64 bit
<b>Networking Feature</b>	4 x 1G 1000 Base-T Ports	4 x 1G 1000 Base-T Ports	2 x 1G 1000 Base-T and 2* 10G SFP+ Ports

### Category wise number of Cameras per Recording Server:

**Resolution: VGA (640 x 480), FPS: 25, Compression: H.264, Bitrate: 1 Mbps / Quality: Standard, Scenario: Quiet**

	<b>BASIC</b>	<b>MEDIUM</b>	<b>HIGH</b>
<b>Recording + Streaming</b>	64	80	100
<b>Recording + Streaming (with Server Side Motion Detection)</b>	42	64	75

**Resolution: HD(1280 x 720) (1.3 MP), FPS: 25, Compression: H.264, Bitrate: 4Mbps / Quality: Standard, Scenario: Quiet**

	<b>BASIC</b>	<b>MEDIUM</b>	<b>HIGH</b>
<b>Recording + Streaming</b>	64	72	80
<b>Recording + Streaming (with Server Side Motion Detection)</b>	36	48	56

**Resolution: 1080P (1920 x 1080) (2 MP), FPS: 25, Compression: H.264, Bitrate: 8Mbps / Quality: Standard, Scenario: Quiet**

	<b>BASIC</b>	<b>MEDIUM</b>	<b>HIGH</b>
<b>Recording + Streaming</b>	48	64	64
<b>Recording + Streaming (with Server Side Motion Detection)</b>	32	42	48

## Monitoring Client Specification:

	BASIC	MEDIUM	HIGH
<b>Processor</b>	Intel Core i5-4590S @ 3.00GHz or higher	Intel Core i7 880 @ 3.07GHz or higher	Intel Core i7 4770 @ 3.4 GHz or higher
<b>Memory</b>	4 GB or higher	8GB or higher	10GB or higher
<b>Graphics Card</b>	PCI Express 1920 x 1080 Graphics with min 1 GB Video Memory	PCI Express 1920 x 1080 Graphics with min 1 GB Video Memory	PCI Express 1920 x 1080 Graphics with min 2 GB Video Memory
<b>Hard Disk</b>	1 x 500 GB	2 x 500 GB	2 x 500 GB
<b>Monitor</b>	1920 x 1080 or higher screen resolution	1920 x 1080 or higher screen resolution	1920 x 1080 or higher screen resolution
<b>Operating System</b>	Windows 64 bit OS	Windows 64 bit OS	Windows 64 bit OS
<b>Networking Features</b>	1 x 1000 Base-T port	2 x 1000 Base-T port	2 x 1000 Base-T port

### Category wise number of Cameras per Monitoring Station:

Resolution: VGA (640 x 480), FPS: 25, Compression: H.264, Bitrate: 1 Mbps / Quality: Standard, Scenario: Quiet

	BASIC	MEDIUM	HIGH
<b>Simultaneous Viewing</b>	16	36	64
<b>Sequential Viewing</b>	128	128	128+
<b>Simultaneous Viewing + Video Analytics Features</b>	10	14	24

Resolution: HD(1280 x 720) (1.3 MP), FPS: 25, Compression: H.264, Bitrate: 4Mbps / Quality: Standard, Scenario: Quiet

	BASIC	MEDIUM	HIGH
<b>Simultaneous Viewing</b>	12	18	24
<b>Sequential Viewing</b>	128	128	128+
<b>Simultaneous Viewing + Video analytics Features</b>	8	10	14

Resolution: 1080P (1920 x 1080) (2 MP), FPS: 25, Compression: H.264, Bitrate: 8Mbps / Quality: Standard, Scenario: Quiet

	BASIC	MEDIUM	HIGH
<b>Simultaneous Viewing</b>	8	14	18
<b>Sequential Viewing</b>	128	128	128+
<b>Simultaneous Viewing + Video analytics Features</b>	6	8	12
<b>Low Resolution(CIF) on Multiple view and High on Full screen. Using Multiple streams</b>	<b>32</b>	<b>48</b>	<b>64</b>

To run more Simultaneous Viewing on client we can use auto switching from low to high Quality on full screen

## Management Server Specification:

	<b>BASIC</b>	<b>MEDIUM</b>	<b>HIGH</b>
<b>Processor</b>	Intel Xeon L5420 @ 2.50GHz or higher	Intel Xeon E5520 @ 2.27GHz or higher	Intel Xeon E5-2609 V2 2.5GHz
<b>Memory</b>	4 GB or higher	8GB or higher	12GB or higher
<b>Graphics Card</b>	PCI Express 1920 x 1080 Graphics with min 1 GB Video Memory	PCI Express 1920 x 1080 Graphics with min 1 GB Video Memory	PCI Express 1920 x 1080 Graphics with min 2 GB Video Memory
<b>Hard Disk</b>	3 x 300 GB	3 x 300 GB	3 x 300 GB
<b>Monitor</b>	1920 x 1080 or higher screen resolution	1920 x 1080 or higher screen resolution	1920 x 1080 or higher screen resolution
<b>Operating System</b>	Windows Server OS 64 bit	Windows Server OS 64 bit	Windows Server OS 64 bit
<b>Networking Feature</b>	4 x 1G 1000 Base-T Ports	4 x 1G 1000 Base-T Ports	2 x 1G 1000 Base-T and 2* 10G SFP+ Ports

- **Management Server needs Basic configuration.**
- **As management server does not take much CPU, it can be installed and configured in any of the recording servers. This can save cost of a separate system for management server.**
- **Ideally Graphics card not required on management and recording servers.**
- **To run more Simultaneous Viewing on client we can use auto switching from low to high Quality on full screen**
- **Video Analytics can be run on Management and Recording Servers also if CPU is available.**