

# Technical Specification

QTY	Specification
35	<p><b>IR Network IP Dome Indoor Camera</b> (Minimum 5MP)</p> <p><b>Image Sensor:</b> Progressive Scan CMOS</p> <p><b>Day &amp; Night:</b> IR cut Filter</p> <p><b>IR Range:</b> Minimum up to 15m</p> <p><b>Angle Adjustment:</b> Pan: 0° to 355°, tilt: 0° to 75°</p> <p><b>Video Compression:</b> H.265+</p> <p><b>Simultaneous Live:</b> Minimum up to 5 channels</p> <p><b>Power Supply:</b> PoE</p> <p><b>Other Features / Smart Functions:</b></p> <ul style="list-style-type: none"> <li>Intelligent IR</li> <li>Auto iris Control</li> <li>Wide Dynamic Range (WDR)</li> <li>Motion Detection, Line Cross Detection,</li> <li>Intrusion Detection, Object Removal detection, Face Detection</li> <li>3D Digital Noise Reduction</li> <li>Must Support ONVIF</li> </ul> <p><b>Accessories:</b> Junction Box for Selected Camera</p>
25	<p><b>IR Network IP Bullet Indoor Camera</b> (Minimum 5MP)</p> <p><b>Image Sensor:</b> Progressive Scan CMOS</p> <p><b>Day &amp; Night:</b> IR cut Filter</p> <p><b>IR Range:</b> Minimum up to 15m</p> <p><b>Field of View:</b> Horizontal Field of View 90° (minimum)</p> <p><b>Video Compression:</b> H.265+</p> <p><b>Simultaneous Live:</b> Minimum up to 5 channels</p> <p><b>Power Supply:</b> PoE</p> <p><b>Other Features / Smart Functions:</b></p> <ul style="list-style-type: none"> <li>Intelligent IR</li> </ul>

	<p>Auto iris Control</p> <p>Wide Dynamic Range (WDR)</p> <p>Motion Detection, Line Cross Detection, Intrusion Detection, Object Removal detection, Face Detection</p> <p>3D Digital Noise Reduction</p> <p>Must Support ONVIF</p> <p><b>Accessories:</b> Junction Box for Selected Camera</p>
12	<p><b>360° IP Indoor Dome Camera</b> (Minimum 12MP)</p> <p><b>Image Sensor:</b> Progressive Scan CMOS</p> <p><b>Day &amp; Night:</b> IR cut Filter</p> <p><b>IR Range:</b> Minimum up to 15m</p> <p><b>Field of View:</b> 360° Viewing angle</p> <p><b>Video Compression:</b> H.265+</p> <p><b>Simultaneous Live:</b> Minimum up to 5 channels</p> <p><b>Power Supply:</b> PoE</p> <p><b>Multi-View Streaming:</b> 360° Overview, Dewarped Panorama, Corridor and Quad views</p> <p><b>Other Features / Smart Functions:</b></p> <ul style="list-style-type: none"> <li>Intelligent IR</li> <li>Wide Dynamic Range (WDR)</li> <li>Motion Detection</li> <li>3D Digital Noise Reduction</li> <li>Must Support ONVIF</li> </ul> <p><b>Accessories:</b> Junction Box for Selected Camera</p>
2	<p><b>Outdoor Network PTZ Camera</b> (Minimum 4MP)</p> <p><b>Image Sensor:</b> Progressive Scan CMOS</p> <p><b>Zoom:</b> Optical 40x &amp; Digital 16x</p> <p><b>Day &amp; Night:</b> IR cut Filter</p> <p><b>IR Range:</b> Minimum up to 150m</p> <p><b>Pan/Tilt Range:</b> Pan: 0° to 360° endless, Tilt: -15° to 90°</p> <p><b>Video Compression:</b> H.265+</p>

	<p><b>Power Supply:</b> PoE</p> <p><b>Other Features / Smart Functions:</b></p> <ul style="list-style-type: none"> <li>Wide Dynamic Range (WDR)</li> <li>Motion Detection, Line Cross Detection,</li> <li>Intrusion Detection, Face Detection</li> <li>3D Digital Noise Reduction</li> <li>Must Support ONVIF</li> </ul> <p><b>Accessories:</b> Wall Mount Bracket, Junction Box for Selected Camera</p>
1	<p><b>Network Video Recorder</b></p> <p><b>IP Camera Inputs:</b> Minimum 64 channels</p> <p><b>Interface:</b> 2x HDMI, 1x VGA</p> <p><b>Recording Modes:</b> Manual, Schedule, Motion detection &amp; continuous</p> <p><b>Search Mode:</b> Time/Date, alarm, motion detection &amp; Exact Search</p> <p><b>Backup Modes:</b> USB Device, network, Internal SATA burner &amp; eSATA</p> <p><b>Network Interface</b> 2 x RJ45 Ports (10/100/1000 Mbps)</p> <p><b>Internal HDD:</b> 64TB.</p> <p><b>Video Compression</b></p> <p><b>Other Features / Functions:</b></p> <ul style="list-style-type: none"> <li>Should support 3<sup>rd</sup> party IP Camera models</li> <li>Auto Search IP Cameras</li> <li>PTZ Control and Functions</li> <li>Support ONVIF, PSIA and RTSP protocols</li> <li>Wide Angle Lens Dewarping</li> </ul>
3	<p><b>48 Port Layer 3 Managed PoE Switch with 2 SFP Port</b></p> <p>Preferred brands: CISCO, HP, HUAWEI, DELL, UBIQUITI</p>
2	<p><b>Network Keyboard Controller with Joystick</b></p> <p><b>Control Protocols:</b> IP, RS-485, RS-232</p> <p><b>Control:</b> 3D/4D Zoom Joystick for PTZ Control</p> <p><b>Compatibility:</b> PTZ Dome Cameras and NVR selected for the above-mentioned items.</p>

	<b>Features / Functions:</b>
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	Preset Position, Auto Scan, Auto Pan, Auto Tour and Pattern Control
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**Preferred Brands:**

**CCTV Camera & NVR :** Hikvision, Dahua, Ubiquiti, Axis

**Network Switch:** CISCO, HP, HUAWEI, DELL, UBIQUITI