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Contact Us At:1.800.645.5516 www.specotech.com
Speco Technologies, 200 New Highway, Amityville, NY 11701

IP

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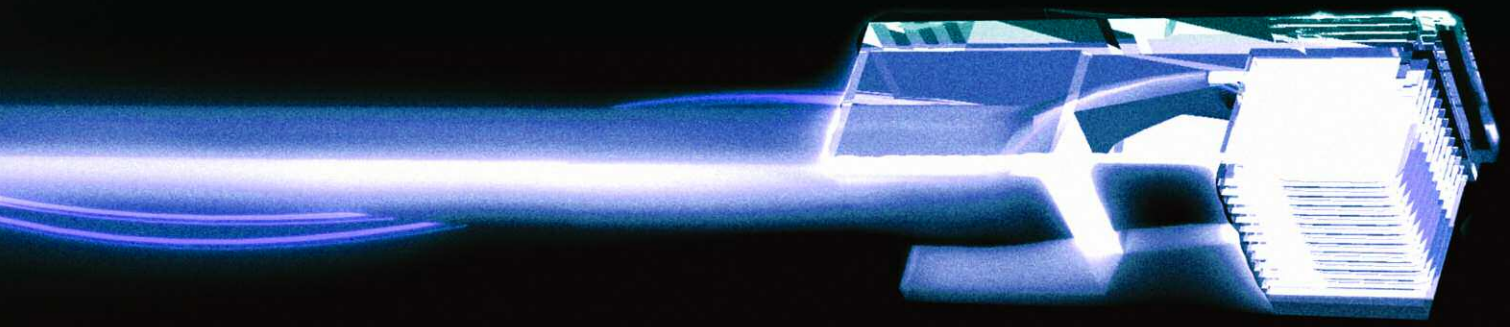

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Questions and Answers

Where is IP Surveillance Beneficial?
An IP CCTV system is beneficial when a network already exists. When setting up an IP CCTV System you must figure the cost of IP cameras/NVR & network switches, contrast with baluns (active or passive) & distance from camera to wiring closet.

Remember with IP Cameras there are other physical barriers than simply distance. Barriers like buildings, multiple floors or extreme distance can be challenges when setting up an IP camera CCTV System.

An IP network is also beneficial when there is a need for multiple or diverse viewing locations. IP cameras are advantageous when it is important that the video needs to be viewable by multiple people in multiple locations.

How Do I Ensure that IP is Right For My Customer?
The IP Solution should be practical and profitable. Not every large project needs IP cameras. Confirm that IP is in line with the customer's expectations and requirements.

Also you should work closely with your customer to ensure that you are aware of all physical and budgetary constraints before any installation has started. Remember if there are any challenges, analog and IP can be used in unison in one CCTV system.

Make sure you deliver ALL the **'needs'** and as many **'wants'** as possible.

Reasons to Use IP Cameras
There are multiple reasons that will sway a project towards IP.

- -Scale of project, the project needs a large number of cameras.
- -Large area to be covered, multiple buildings with multiple floors.
- -Existing/unused network infrastructure.
- -Multiple areas for monitoring.
- -Remote access required for monitoring
- -Mobile access, ie iPhone®, Blackberry® or Droid®.
- -Physical barriers, like distance and layout
- -Installation costs: It can be expensive to 'home run' individual video paths. This can include the cost of cable.
- -Flexibility and Adaptability.
- -Centralization of security for data storage.

Recording to a DVR with IP Cameras
Hybrid DVRs allow connection of both traditional analog cameras & IP cameras. They can match video transport method to system topology.

Network Video Recorder or NVR is a software program that records video in a digital format to a USB flash drive, SD memory card or other mass storage device. NVRs are similar to DVRs but with several distinct differences. NVRs take video input over a network, as opposed to directly connecting to the NVR via a capture card or tuner. The main distinction is that video on a DVR is encoded and processed at the DVR, while video on an NVR is encoded and processed at the camera. The video is then streamed to the NVR for storage or remote viewing. An NVR contains no dedicated video capture hardware.

An important question to ask when discussing installing an NVR is does the NVR software run on a 'workstation' or is a 'server' required?

Megapixel IP Cameras
Megapixel cameras can provide far more detail then a traditional analog camera. Megapixel Cameras are IP cameras built around Megapixel technology. These cameras produce large, hi-resolution images. The high resolution improves the cameras ability to zoom on live view and playback.

The higher resolution and clarity of a Megapixel IP camera means more data. The data files transmitted are also larger. When installing any Megapixel IP cameras bandwidth should be considered. The more data the camera transmits the more bandwidth the camera needs. Working closely with your customer will determine the bandwidth considerations for the job.

Bandwidth can be conserved by reducing the "resolution" of the transmitted image. The bandwidth of a camera can be throttled. When there is an event the camera uses the bandwidth it needs to transmit data and when there is no event it's only using the bandwidth that is set by the network administrator, this is bandwidth throttling.

Intensifier™ IP Cameras
Speco Technologies is the only camera manufacturer that currently has IP cameras with the Intensifier™ Technology. Speco Technologies Intensifier™ Technology amplifies and maximizes existing light to generate color pictures in near darkness where other cameras cannot!

1.3 Megapixel, Triple Streaming Motorized IP Cameras with Micro-SD Card Slot

Camera Specifications

Image Sensor	1/3" Sony™ Progressive Scan CMOS Sensor
Effective Pixels	1280 x 1024 (1.3 MP)
Min. Scene Illumination	0.2 Lux (Color), 0.01 Lux (B/W), 0.00 Lux (LEDs On) (Bullet Only)
Lens	2.8-12mm Motorized Zoom Lens
Electronic Shutter	1/2 ~ 1/2,000 sec.
Synchronization	Internal
S/N Ratio	Better than 44dB
Flickerless	1/120 sec. (60Hz), 1/100 sec. (50Hz)
Day/Night	Mechanical IR Cut Filter
White Balance	Auto / Sunny / Shadow Indoor / Lamp
WDR	On / Off
Motion Detection	12 Windows
Power Requirement	12VDC / PoE (IEEE802.3af)
Operational Temperature	-20˚F - +122˚F
Operational Humidity	30% ~ 90% RH
Weight(Dome)	2.2 lbs.
Weight(Bullet)	2.9 lbs.

Weather Resistant Bullet with Micro-SD Card Slot & 48 IR LEDs (Up to 70' Range)
(IP67 rating)
ONSIPMPB1M
2.8-12mm Motorized Zoom Lens

Tamper/Weather Resistant Dome with Micro-SD Card Slot & 24 IR LEDs (Up to 50' Range)
(IP65 rating)
ONSIPMPD3M
2.8-12mm Motorized Zoom Lens

Network Specifications

Video Compression	H.264, MPEG4 & MJPEG
Resolution	SXGA (1280 x 1024); SXVGA (1280 x 960); 720p(1280 x 720); D1 (720 x 480); VGA (640 x 480); 640 x 352; 320 x 192
Bit Rate	64 K ~ 4 Mbps
Image Frame Rate	30 fps at SXVGA resolution (NTSC)
Audio Input Compression	8kHz, Mono, PCM
Audio Output Compression	8kHz, Mono, PCM
Audio Line Output	Unbalanced, 1.4 Vp-p 1Vrms, 3.5mm Jack
External I/O	Alarm In / Alarm Out
External I/O Joystick	OSD Control
Network	Ethernet (10/100 Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, ONVIF
Security	Password protection, configured by administrator

1.3 Megapixel, Triple Streaming IP Cameras with Micro-SD Card Slot

Camera Specifications

Image Sensor	1/3" Sony™ Progressive Scan CMOS Sensor
Effective Pixels	1280 x 1024 (1.3 MP)
Min. Scene Illumination	0.2 Lux (Color), 0.01 Lux (B/W), 0.00 Lux (LEDs On) (Bullet Only)
Lens	2.8-12mm Zoom Lens
Electronic Shutter	1/2 ~ 1/2,000 sec.
Synchronization	Internal
S/N Ratio	Better than 44dB
Flickerless	1/120 sec. (60Hz), 1/100 sec. (50Hz)
Day/Night	Mechanical IR Cut Filter
White Balance	Auto / Sunny / Shadow Indoor / Lamp
WDR	On / Off
Motion Detection	12 Windows
Power Requirement	12VDC / PoE (IEEE802.3af)
Operational Temperature	-20˚F - +122˚F
Operational Humidity	30% ~ 90% RH
Weight(Dome)	2.2 lbs.
Weight(Bullet)	2.9 lbs.

Weather Resistant Bullet with Micro-SD Card Slot & 48 IR LEDs (Up To 70' Range) (IP67 rating)
ONSIPMPB1 2.8-12mm Auto iris varifocal lens

Tamper/Weather Resistant Dome with Micro-SD Card Slot & 24 IR LEDs (Up To 50' Range) (IP65 rating)
ONSIPMPD3 2.8-12mm Auto iris varifocal lens

Traditional Style Camera with Micro-SD Card Slot
ONSIPMPT5
Uses CS Type Lenses

Network Specifications

Video Compression	H.264, MPEG4 & MJPEG
Resolution	SXGA (1280 x 1024); SXVGA (1280 x 960); 720p(1280 x 720); D1 (720 x 480); VGA (640 x 480); 640 x 352; 320 x 192
Bit Rate	64 K ~ 4 Mbps
Image Frame Rate	30 fps at SXVGA resolution (NTSC)
Audio Input Compression	8kHz, Mono, PCM
Audio Output Compression	8kHz, Mono, PCM
Audio Line Output	Unbalanced, 1.4 Vp-p 1Vrms, 3.5mm Jack
External I/O	Alarm In / Alarm Out
External I/O Joystick	OSD Control
Network	Ethernet (10/100 Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, ONVIF
Security	Password protection, configured by administrator

Standard 1.3 Megapixel IP Cameras with Micro-SD Card Slot

Camera Specifications

Image Device	1/3" Sony Progressive Scan CMOS Sensor
Effective Pixels	1280 x 1024 (1.3MP)
Min. Scene Illumination	Color: 0.02 Lux B/W 0.01 Lux
Lens (Bullet/Dome)	4.3mm fixed
Electronic Shutter	1/2 ~ 1/2000 sec
Synchronization	Internal
S/N Ratio	Better than 44dB
Flickerless	1/120 sec (60Hz), 1/100 sec (50HZ)
Auto Iris Control	Manual
Day/Night	AUTO / COLOR / B/W
WDR	On / Off
White Balance	Auto / Sunny Shadow / Indoor / Lamp
Motion Detection	12 Windows
Power Requirement	12VDC / PoE (IEEE802.3af)
Operating Temperature	-20° F ~ 122° F
Operating Temperature (ONSIPMPDP7)	-14° F ~ 122° F
Operational Humidity	30% ~90% RH
Weights	2.6 lbs. Bullet 2.9 lbs. Dome 1.0 lb. Plastic Dome

Weather Resistant Bullet with Micro SD Slot
(IP67 rating)
ONSIPMPB6
4.3mm Fixed Megapixel Lens

Tamper/Weather Resistant Dome with Micro SD Slot
(IP65 rating)
ONSIPMPD7
4.3mm Fixed Megapixel Lens

Indoor Dome In Plastic Housing with Micro SD Slot
ONSIPMPDP7
4.3mm Fixed Lens

Network Specifications

Video Compression	H.264, MPEG4 & MJPEG
Resolution	SXGA (1280 x 1024); SXVGA (1280 x 960) 720P (1280 x 720); D1 (720 x 480) VGA (640 x 480); 640 x 352; 320 x 192
Bit Rate	64 K ~ 4 Mbps
Ethernet	Ethernet (10/100 Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, UPnP, RTP, RTSP, FTP, SMTP, ONVIF
Web Browser	Microsoft Internet Explorer 6.0 or above
Security	Password protection, configured by administrator

Standard 1.3 Megapixel IP Cameras

Camera Specifications

Image Device	1/3" Omnivision 1M CMOS
Effective Pixels	1280(H) x 800(V)
Min. Illumination	Color: 0.02 Lux (50IRE@F.1.2), B/W 0.01 Lux
Lens Type (Bullet/Dome)	4.3mm fixed
Synchronization	Internal
Auto Iris Control	Manual
Day/Night	AUTO / COLOR / B/W
WDR	On / Off (1 ~ 10)
White Balance	Auto_Normal / Sunny / Shadow Indoor / Lamp / FL1 Sunny / Shadow / Indoor Lamp / FL1 / FL2 / User
Motion Detection	Off /On
Power Requirement	12VDC / POE (IEEE802.3af)
Operating Temperature	-14° F ~ 122° F
Operational Humidity	30% ~ 90% RH
Weights	2.6 lbs. Bullet 2.9 lbs. Dome

Weather Resistant Bullet
(IP67 rating)
ONSIPMPB8
4.3mm Fixed Megapixel Lens

Tamper/Weather Resistant Dome
(IP65 rating)
ONSIPMPD9
4.3mm Fixed Megapixel Lens

Network Specifications

Video Compression	H.264, MPEG4 & MJPEG
Picture Resolution	720p (1280 x 720); D1 (720 x 480); VGA (640 x 480); 640 x 352; 320 x 192
Bit Rate	64 K ~ 4Mbps
Ethernet	Ethernet (10/100 Base-T)
Protocol	TCP, UDP, IP, HTTP, DHCP, UPnP, RTP, RTSP, FTP, SMTP, ONVIF
Web Browser	Microsoft Internet Explorer 6.0 or above
Security	Password protection, configured by administrator

Standard Resolution IP Cameras - Featuring Intensifier3™ Technology

Camera Specifications

Image Sensor	1/3" Sony Super-HAD II™ (ICX638/639BK)
Horizontal Resolution	650 TV Lines
Total Pixels	811 x 508 (NTSC)
Effective Pixels	768 x 494 (NTSC)
Electronic Shutter	1/60 ~ 1/200,000 sec. (NTSC)
Min. Scene Illumination	0.0002 Lux (Intensifier™), 0.3 Lux (Shutter)
Scanning System	2:1 Interlaced
Synchronization	Internal
S/N Ratio	52dB (Weight On)
OSD	Built-In
Color Temp	AWC-SET / MANUAL/ATW1/ATW2
BLC	Low / Middle / High
AGC	Off / Low / Middle / High
Speco DNR	Off / On / Dynamic
Intensifier3™	Built-in (selectable limit ~ x 512)
Day/Night	Auto / Day / Night / External
Motion Detection	Off / On
Privacy	Off / On
Video output	1.0V [p-p] NTSC Composite, 75Ω / BNC
Power Requirement	12VDC / POE (IEEE802.af)
Operational Temperature	-20˚ F ~ 122˚ F
Operational Humidity	30% ~90% RH
Weight (Bullet)	3.1 lbs.
Weight (Dome)	2.4 lbs.
Weight (Speed Dome)	3.3 lbs.
Weight (Traditional)	1 lb.

Weather Resistant Bullet with Micro-SD Card Slot
(IP67 rating)
ONSIPB1 2.8-12mm Auto iris varifocal lens

Tamper/Weather Resistant Dome with Micro-SD Card Slot
(IP65 rating)
ONSIPD3 2.8-12mm Auto iris varifocal lens

Weather Resistant Indoor/Outdoor Motorized Speed Dome with Micro-SD Card Slot
(IP66 rating)
ONSIPSD10X 3.8-38mm lens
with mechanical filter

Traditional Style Camera with Micro-SD Card Slot
ONSIPT5
Uses CS Type Lenses

Network Specifications

Video Compression	H.264, MPEG4 & MJPEG
Resolution	D1 (720 x 480); VGA (640 x 480) CIF (352 x 240); Half D1 (720 x 480)
SD Card	Micro SD Card
Bit Rate	64 K ~ 4 Mbps
Image Frame Rate	30 fps at full D1 resolution (NTSC)
Audio Input Compression	80kHz, Mono, PCM
Audio Line Input	Unbalanced, 1.4 Vp-p 1Vrms, terminal block
Audio Output Compression	80kHz, Mono, PCM
Audio Line Output	Unbalanced, 1.4 Vp-p 1Vrms, terminal block
I/O Reset Button	Factory default
Network	Ethernet (10/100 Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, ONVIF
Web Browser	Microsoft Internet Explorer 6.0 or above
Security	Password protection, configured by administrator

Triple Streaming Speed Dome, 37X Optical/12X Digital Zoom

Camera Specifications

Image Sensor	1/4" Double Density Interline Transfer CCD
Total Pixels	811 (H) x 508 (V) 410K
Effective Pixels	768 (H) x 494 (V) 380K
Horizontal Resolution	550 TV Lines (Color) 680 TV Lines (B/W)
Video Signal-to-Noise	50dB (AGC Off)
Pan Rotation Range	360˚ Endless
Tilt Rotation Range	90˚
Preset Speed	360˚ / sec.
Jog Speed	0.05˚~ 360˚ / sec. (Proportional to Zoom)
Swing Speed	1˚ ~ 180˚/ sec.
Presets	127 Labels (Label, Independent Camera Parameter Setting)
Pattern	4 Patterns [1200 Commands (Approx. 5 Minute) / Pattern]
Swing	8 Swing
Group	8 Groups (Max. 20 Actions with the combination of Preset, Pattern and Swing)
Sensor Inputs	3 Inputs, Photo-Coupler Type, DC 5V-12V
Alarm Outputs	1 Output, Relay Output
Other Pan/Tilt Functions	Auto Flip, Auto Parking, Power Up Action, etc.
Protocol	Pelco-D, Pelco-P Selectable
OSD	English, Menu / PTZ Information, etc.
Fan	Always On
Heater	Operational start at internal temperature of 50˚F
Operational Temperature	-10˚F ~ 120˚F
Power Requirement	12VDC
Dimensions	7.56" H x 10.4" D (Ceiling Mount) 11.7" H x 10.9" D (Wall Mount)
Weight	7.05 lbs. (Ceiling Mount) 8.4 lbs. (Wall Mount)

Weather Resistant/Indoor/Outdoor Day/Night Motorized Speed Dome with 37X Optical Zoom
ONSIPSD37X 3.5-129.5mm Lens with Mechanical IR Filter which Delivers Superior Video Quality

Network Specifications

Video Compression	H.264, MPEG4, MJPEG
Resolution	D1 (720 x 480); VGA (640 x 480) CIF (352 x 240); Half D1 (720 x 480)
Bit Rate	64 K ~ 4 Mbps
Image Frame Rate	30 fps at full D1 resolution (NTSC)
Audio Input Compression	80kHz, Mono, PCM
Audio Line Input	Unbalanced, 1.4 Vp-p 1Vrms, terminal block
Audio Output Compression	80kHz, Mono, PCM
Audio Line Output	Unbalanced, 1.4 Vp-p 1Vrms, terminal block
I/O Reset Button	Factory default
External I/O Joystick	OSD Control
Network	Ethernet (10/100 Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, ONVIF
Web Browser	Microsoft Internet Explorer 6.0 or above
Security	Password protection, configured by administrator

OnSIP NVR Software

Main Features:

- Support for multiple site surveillance
- Manage up to 64 cameras
- Support 1, 4, 6, 8, 9, 10, 16, 25, 36, 49, 64 window layout
- Support Megapixel H.264/MJPEG MPEG-4 format
- Support motion detection and Digital I/O event from hardware
- Maximum 30 seconds pre-event recording
- Search video clips by date, time and event
- Expandable PTZ commands
- Time-based search bar
- Multiple-channel live view in full-screen mode
- Support different frame rate on live view and recording
- Digital zoom on live view and playback
- Continuous, Schedule, Motion, Alarm Recording
- 4-channel synchronized playback
- eMap Manager

Video Server

Enterprise Level IP Accessory
Compatible with most 3rd party open platform software suites

Network Specifications

Video Compression	H.264, MPEG4 & MJPEG
Resolution	D1 (720 x 480) VGA (640 x 480) CIF (352 x 240), Half D1 (720 x 480)
Image Frame Rate	30 fps @ Full D1 Resolution (NTSC)
Audio Input Compression	8kHz, Mono, PCM
Audio Output Compression	8kHz, Mono, PCM
Audio Line Output	Unbalanced, 1.4 Vp-p 1Vrms, 3.5mm Jack
External I/O	Alarm In / Alarm Out
Network	Ethernet (10/100 Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP, ONVIF
Security	Password protection: configured by the administrator

One Channel Video Server
ONSIPS101