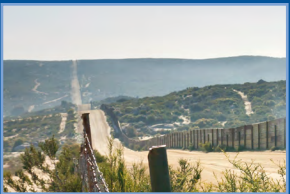







## 2014 Product Comparison








*High-definition video camera systems designed for the performance requirements of critical infrastructure installations*




## Camera Positioning Systems

									
Camera Model		3960HD			3960SD	8800HD	5970SD		
		18x	20x	30x	35x	55x	Fixed Lens Options		
<b>Camera</b>	Resolution	HD 720p30	HD 1080p30	HD 720p30	SD 480i30	HD 1080p30	CIF 320 x 240	VGA 640 x 480	
	Sensor	1/3" CCD	1/3" CMOS	1/3" CCD	1/3" CCD	1/2.7" CMOS	Uncooled Vox Microbolometer		
	Type	Color Day/Night					Thermal LWIR		
	Maximum Sensitivity	0.002 fc	0.004 fc	0.0005 fc	0.000018 fc	0.035 fc	50 mK @ F1.0		
	Image Defog	No			Yes	No			
	Image Stabilization (EIS)	No			Yes		No		
	Digital Zoom	No			2x	12x	No	2x	4x
	BLC	Yes					Not Available		
<b>Lens</b>	WDR	Yes				No	Not Available		
	Type	Motorized Zoom				Fixed			
	Focal Length	4.7 to 84.6 mm	4.7 to 94 mm	4.4 to 132 mm	3.4 to 119 mm	12.0 to 1,680 mm	35 mm, 60 mm, 100 mm Options		
	Magnification	18x	20x	30x	35x	137.5x	Not Available		
	Iris	Auto/Manual					Not Available		
	Focus	Auto/Manual				Focus Assist/Manual		Manual	
<b>IP Video</b>	HAFOV	55.2° to 3.2°	58° to 2.9°	62.9° to 2.2°	56° to 1.7°	27° to 0.2°	13°, 7.6°, 4.6°	17.7°, 10.4°, 6.2°	
	Video Codec	H.264 and MJPEG Compression							
	Video Stream	2 individually configurable stream profiles							
<b>Positioner</b>	Streaming Methods	RTSP/RTP, RTSP Interleaved, HTTP Tunneling, RTP Multicast, MJPEG Push using HTTP, MJPEG pull using HTTP, MPEG2 Transport Stream (M2TS)							
	Pan/Tilt Range	360° Continuous Pan, -90° to +90° Tilt				360° Continuous Pan, -30° to +30° Tilt		360° Continuous Pan, -90° to +90° Tilt	
	Accuracy	0.25°				0.06°		0.25°	
	Presets	64							
	Tours	8, includes 32 presets with individual dwell per preset							
	Patterns	Not Available							
	Privacy Zones	8				No		8	
<b>Network</b>	Inverted Mounting	Yes				No		Yes	
	Security/Authentication	4 levels of user access							
	Web Server	Web browser IE8 or greater							
<b>Analog Interface</b>	Open Connectivity	ONVIF Profile S, NTCIP 1205, CohuT				CohuT	ONVIF V1.2, NTCIP 1205, CohuT		
	Composite Analog Video	NTSC or PAL				No	NTSC		
<b>On Screen Display (OSD)</b>	Serial PTZ Control	RS422				Not Available		RS422	
	IP Video OSD	Yes				No		Yes	
<b>Event Management</b>	Analog Video OSD	Yes				No		Yes	
	Input Trigger	2				No		2	
	Output Trigger					1			
	On-Board Video Storage					No			
	Video Motion Detection					No			
	Video Analytics					No			
<b>Environmental</b>	Ingress/Protection Standards	IP67/IP66				IP67		IP67/IP66	
	Temperature	-40°C to +74°C				-32°C to +60°C		-40°C to +74°C	
	Certifications	FCC, ASTM-B117, Nema TS2 [Temp, Shock, Vib, Power Variation]				FCC, RoHS, Nema TS2 [Shock, Vib] MIL-STD-810F		FCC, ASTM-B117, Nema TS2 [Temp, Shock, Vib, Power Var]	
<b>Electrical</b>	Power	120 Vac or 24 Vac, 36 W, 110 W p/t heater ON				24 Vdc, 60 W, 113 W heater ON		120 Vac, 24 Vac, 36 W, 110 W p/t heater ON	

## Dome Positioning Systems

							
Camera Model		3920HD			3920SD	3720HD	3120HD
		18x	20x	30x	35x	30x	
<b>Camera</b>	Resolution	HD 720p30	HD 1080p30	HD 720p30	SD 480p30	HD 720p30	
	Sensor	1/3" CCD	1/3" CMOS	1/3" CCD	1/4" CCD	1/3" CCD	
	Type	Color Day/Night					
	Maximum Sensitivity	0.002 fc	0.004 fc	0.0005 fc	0.000018 fc	0.0005 fc	
	Image Defog	No		Yes	No		Yes
	Image Stabilization (EIS)	No		Yes			
	Digital Zoom	No		2x	12x	2x	
	BLC	Yes					
<b>Lens</b>	WDR	Yes					
	Type	Motorized Zoom					
	Focal Length	4.7 to 84.6 mm	4.7 to 94 mm	4.4 to 132 mm	3.4 to 119 mm	4.4 to 132 mm	
	Magnification	18x	20x	30x	35x	30x	
	Iris	Auto/Manual					
	Focus	Auto/Manual					
	HAFOV Range	55.2° to 3.2°	58° to 2.9°	62.9° to 2.2°	55.8° to 1.7°	62.9° to 2.2°	
	Video Codec	H.264 and MJPEG Compression					
<b>IP Video</b>	Video Stream	2 individually configurable stream profiles					
	Streaming Methods	RTSP/RTP, RTSP Interleaved, HTTP Tunneling, RTP Multicast, MJPEG Push using HTTP, MJPEG pull using HTTP, MPEG2 Transport Stream (M2TS)					
	Pan/Tilt Range	360° Continuous Pan, 5° to -90° Speed [continuous tilt with image flip and rotation at -90°]					
<b>Positioner</b>	Accuracy	0.10°					
	Presets	64, includes pan, tilt, zoom, focus coordinate					
	Tours	8, includes 32 presets with individual dwell per preset				4, includes 27 presets with individual dwell per preset	
	Patterns	Not Available				4, up to 40 minutes of recorded patterns total	
	Privacy Zones	8				Not Available	
	Security/Authentication	4 levels of user access					
<b>Network Interface</b>	Web Server	Web browser IE8 or greater					
	Open Connectivity	ONVIF Profile S, NTCIP 1205, CohuT					
	NTSC/PAL Video	Yes				Not Available	
<b>Analog Interface</b>	Serial Pan/Tilt/Zoom Control	RS422				Not Available	
	IP Video OSD	Yes				Not Available	
<b>On Screen Display (OSD)</b>	Analog Video OSD	Yes				Not Available	
	Input Trigger	2					
<b>Event Management</b>	Output Trigger	1					
	Local Storage	Not Available					
	Motion Detection/Analytics	Not Available					
<b>Environmental</b>	Ingress/Protection Standards	IP67, Sealed and Pressurized				IP66	IP67, Sealed and Pressurized
	Temperature	-40°C to + 60°C				(24Vac, -35°C) (PoE+, -30C) to +70°C	(24Vac, -40°C) (PoE+, -30C) to +80°C
	Certifications	FCC, ASTM-B117, Nema TS2 [Shock, Vib, Power Variation]				FCC, CISPR22, CISPR24, TS2 [Temp, Shock, Vib, Power Variation]	
<b>Electrical</b>	Power	120 Vac or 24 Vac, 40 W, 110 W heater ON				PoE+, 15 W, 30 W heater ON or 24 Vac, 15 W, 60 W heater ON	

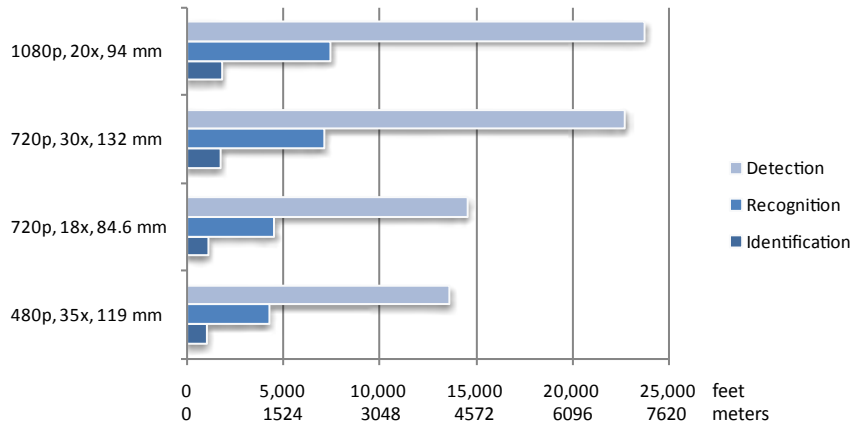
## Fixed Camera Systems

							
Camera Model		Fixed Barrel		Fixed Camera	Fixed Dome	Outdoor Fixed Camera	
		3930HD		7510HD	7520HD	7530HD	
		18x	30x	Varifocal Options			
Camera	Resolution	HD 720p30	HD 720p30	HD 1080p30	HD 1080p30	HD 1080p30	
	Sensor	1/3" CCD			1/3" CMOS		
	Type	Day/Night					
	Maximum Sensitivity	0.002 fc	0.0005 fc	0.005 fc			
	Image Defog	No	Yes	No			
	Image Stabilization (EIS)	No	Yes	No			
	Digital Zoom	No	2x	12x			
	BLC	Yes					
WDR	Yes						
Lens	Type	18x Zoom	30x Zoom	Varifocal			
	Iris	Auto/Manual			Manual		
	Focus/Iris	Auto/Manual			One Touch-Remote-Focus	Manual	One Touch-Remote-Focus
	HAFOV Range	55.2° to 3.2°	62.9° to 2.2°	Lens Option Dependent			
IP Video	Video Codec	H.264 and MJPEG Compression					
	Video Stream	2 individually configurable stream profiles			3 individually configurable stream profiles		
	Streaming Methods	RTSP/RTP, RTSP Interleaved, HTTP Tunneling, RTP Multicast, MJPEG Push using HTTP, MJPEG pull using HTTP, MPEG2 Transport Stream (M2TS)			RTSP/RTP, RTSP Interleaved, HTTP Tunneling, RTP Multicast, MJPEG pull using HTTP		
Network Interface	Security/Authentication	4 levels of user access			2 levels of user access		
	Web Server	Web browser IE8 or greater					
	Open Connectivity	ONVIF Profile S, NTCIP 1205, CohuT			ONVIF V1.2, API		
Analog Interface	NTSC/PAL Video	Optional			Video Service Jack	Not Available	
	Serial Pan/Tilt/Zoom Control	Not Available					
On Screen Display (OSD)	IP Video OSD	Yes					
	Analog Video OSD	Not Available					
Event Management	Input Trigger	2		2	Not Available	1	
	Output Trigger	2		2	Not Available	1	
	Local Storage	No		Yes	Not Available		
	Motion Detection	No			Yes		
Analytics	No			Optional Add-on			
Environmental	Ingress/Protection Standards	IP67, Sealed and Pressurized			IP50	IP66	
	Temperature	-40°C to + 74°C			+20°C to + 50°C		
	Certifications	FCC, ASTM-B117, CISPR 24, Nema TS2 [Temp, Shock, Vib, Power Variation]			FCC, CISPR22, CISPR24, RoHS		
Electrical	Power	PoE+, 10 W, 30 W heater ON			PoE, 12/24 Vdc, 24 Vac, 8 W maximum		PoE, 12/24 Vdc, 24 Vac, 15 W maximum

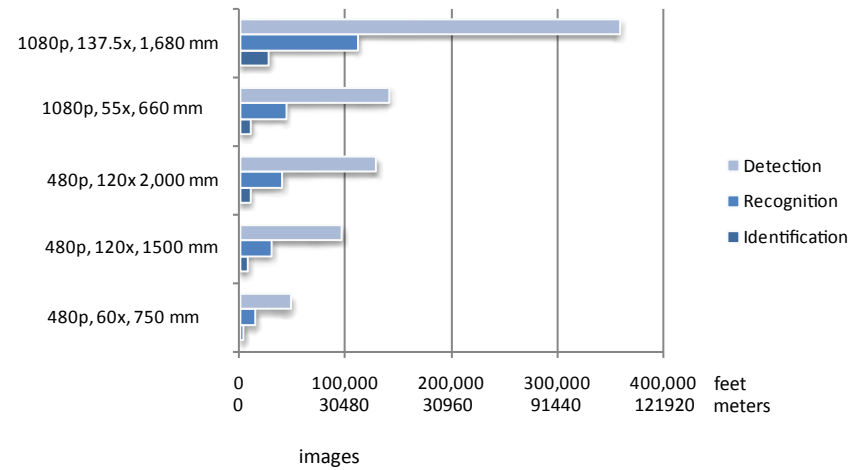
## Viewing Distance Comparisons



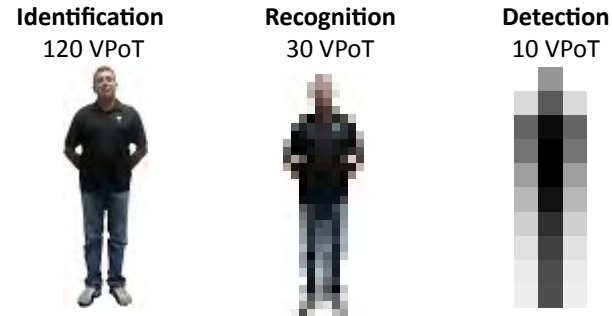
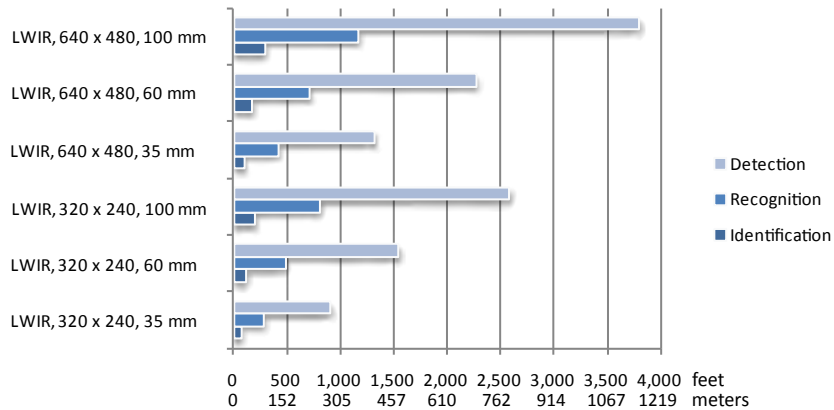
**Medium Range Surveillance Comparison**



**Long Range - Ultra Long Range Surveillance Comparison**



**LWIR Thermal Surveillance Comparison**



Note: The images above depict the amount of detail on a person using the vertical pixels on target indicated

**Calculation Criteria:**

- Object = Moving Person, 5.8ft [1.79m]
- Detection = 10 Vertical Pixels on Target [Gray Bars]
- Recognition = 30 Vertical Pixels on Target [Medium Blue Bars]
- Identification = 120 Vertical Pixels on Target [Dark Blue Bars]



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