CAMERA SYSTEMS_

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EXO[™] Corrosion Resistant Camera High Definition Camera Systems For Harsh Environments

The EXO Corrosion Resistant High Definition (HD) Network Camera System is the professional's choice for capturing brilliant, 1080P full HD video in areas of extreme corrosion, including applications in food, pharmaceutical, marine, coastal and petrochemical environments. The EXO Corrosion Resistant series, constructed of high-grade 316L Stainless Steel and available in both pressurized and non-pressurized models, is built tough to withstand extreme temperature ranges, power surges, heavy impacts and contamination from debris, chemicals and water.

Available Features

- HD 1080P
- H.264 High Profile, MJPEG compression
- Manufactured with high-grade 316L SS
- 20x & 30x optical zoom models
- 30x zoom models have image stabilization
- Day / Night with auto IR-cut filter, Wide Dynamic Range
- ONVIF, PSIA (Milestone, ONSSI), and GENETEC API, supported
- Meets NEMA 4X and NEMA TS2 standards
- Micro-SD / SDHC / SDXC / support

- Video motion detection
- Audio synchronization
- Temperature range: -58°F to 140°F (-50°C to 60°C), up to 165°F (74°C) (Per NEMA TS2)
- Proprietary surge protection (Ethernet, power and alarm / data wires)
- IP67 (IP68 on Pressurized Models)
- Optional stainless steel wall mount







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EXO[™] Corrosion Resistant Camera



EXO Corrosion Resistant

Constructed of 316L Stainless Steel and a special Nylon blend optically clear lower dome, with superior chemical, stress, and scratch resistance, the EXO Corrosion Resistant Camera is designed to protect video surveillance equipment in harsh and corrosive environments. The EXO Corrosion Resistant Camera System is the ideal solution for marine, medical, pharmaceutical, oil / gas processing, food processing, transportation and other harsh environments.

Accessory:



WM10SS Stainless steel wall mount

Camera Specifications		
	20x	30x
Image Sensor:	1/2.8-type E	xmor CMOS
Lens / Digital Zoom:	20x Optical Zoom,f=4.7mm (wide) to 94.0mm (tele), F1.6 to F3.5, 12x (240x with optical zoom)	30x Optical Zoom,f=4.6mm (wide) to 138.0mm (tele), F1.6 to F4.7, 12x (360x with optical zoom)
Minimum Illumination:	0.5 lx (F1.6, 50 IRE, Hig 0.095 lx (F1.6, 50IRE, High Ser	
Shutter Speed:	Automatic or u	iser selectable
Selectable Shutter Speeds:	1/1 to 1/10,0	00s, 22 steps
Pan/Tilt/Zoom:	Pan: 360° continous rotation; Speed: 0.5°-80°/sec manua	
Horizontal Viewing Angle:	55.4° (wide end) to 2.9° (tele end)	59.5° (wide end) to 2.1° (tele end)
Image Stabilization:	No	Yes
Maximum Lens Aperture:	Minimum of f/1.6 (wide) to f/3.5 (tele)	Minimum of f/1.6 (wide) to f/4.7 (tele)

Video Specifications	
Video Compression:	H.264 High, Main and Baseline profiles Motion JPEG
Resolutions:	H.264: 1920x1080, 1280x720, 640x360, H.264 or Motion JPEG: 640x360, 4CIF, VGA, 2CIF, CIF
Frame Rate:	Up to HD 1080p @ 30 fps720p @ 60fps
Video Streaming:	User selectable (1) H.264 and (1) H.264 or MJPEG
Image Settings:	Wide dynamic range (WDR), manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation, text and image overlay, privacy masks, image freeze on PTZ
Data Rate:	Variable Bit Rate, Motion adaptive variable bit rate and Constant Bit Rate modes. 64 kbps – 6 Mbps per channel (requires less than 1 Mbps @ 4CIF/30fps)

Electrical Specifications		
Alarm Inputs / Output:	1 Alarm input	
Power Input / Input Voltage:	24Vac, 80W	
Surge Protection:	Proprietary two (2) stage surge protection (3 year warranty)	
Audio Streaming:	Two-way: Uncompressed PCM High-fidelity AAC-LC G.711	
Audio Input / Output:	Single analog audio input; Single analog audio output (External Microphone and Speaker required)	
Connectors:	RJ45 for 10BASE-T/100BASE-TX, Pheonix style connectors for AC/DC power, 4 configurable alarm inputs / outputs, mic in, line mono input, line mono output to active speaker	

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Models:

EXSS7C2-2 20x optical zoom, Pendant mount with sunshield

EXSS7C2-3

30x optical zoom, Image Stabilization, Pendant mount with sunshield

EXSP7C2-2

20x optical zoom, Pressurized, Pendant mount with sunshield

EXSP7C2-3

30x optical zoom, Image Stabilization, Pressurized, Pendant mount with sunshield

System Int	tegration Specifications			
Application Programming Interface:	GENETEC API, PSIA (Milestone, ONSSI), ONVIF			
Event Triggers:	Video motion detection, memory card full			
Event Actions:	Video recording to edge storage			
Protocols Specifications				
Networking:	IPv4/v6, UDP, TCP, IGMP, ICMP, ARP, DHCP, DNS			
Streaming:	RTP, HTTP			
Management:	RTSP, HTTP, HTTPS, Bonjour, NTP, Telnet, SNMP			
Security:	Password protection, HTTPS encryption, digest authentication, user access log			
System Administration:	Web GUI interface (HTTP or HTTPS)			
Access Control:	SSL, Basic and Digest Authentication			
Audio / Video Buffering:	Recorded ASF files to micro-SD medium			
Long Term System Configuration Memory:	System configuration stored on internal flash			
Software Update:	Fault-tolerant, remote accessible			
Alarm Events:	Triggered by external input			
Network:	Standard 10/100 Base-T Ethernet port			
Edge Recording:	One (1) micro-SD / SDHC / SDXC interface (2-32GB Sold Seperatly, class 6 or above micro SD card)			
Environ	nental Specifications			
Environr Humidity:	nental Specifications 0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4			
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Humidity:	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models)			
Humidity: Impact Rating:	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10			
Humidity: Impact Rating: Ingress Protection Rating:	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58°F to 140°F (-50°C to 60°C), up to 165°F (74°C)			
Humidity: Impact Rating: Ingress Protection Rating: Temperature:	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58°F to 140°F (-50°C to 60°C), up to 165°F (74°C) Per NEMA TS2			
Humidity: Impact Rating: Ingress Protection Rating: Temperature: Maximum Windload: Vibration:	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58°F to 140°F (-50°C to 60°C), up to 165°F (74°C) Per NEMA TS2 150mph (240kph)			
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Humidity: Impact Rating: Ingress Protection Rating: Temperature: Maximum Windload: Vibration: Gene	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58%F to 140%F (-50°C to 60°C), up to 165%F (74%C) Per NEMA TS2 150mph (240kph) Conforms to NEMA TS2, para 2.1.9 ral Specifications 316L strainless steel OptiClear special Nylon blend			
Humidity: Impact Rating: Ingress Protection Rating: Temperature: Maximum Windload: Vibration: Gene	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58°F to 140°F (-50°C to 60°C), up to 165°F (74°C) Per NEMA TS2 150mph (240kph) Conforms to NEMA TS2, para 2.1.9 ral Specifications 316L strainless steel			
Humidity: Impact Rating: Ingress Protection Rating: Temperature: Maximum Windload: Vibration: Vibration: Gene Housing Style: Dome: Mounting Style: Mouting Pattern:	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58%F to 140%F (-50°C to 60°C), up to 165%F (74%C) Per NEMA TS2 150mph (240kph) Conforms to NEMA TS2, para 2.1.9 ral Specifications 316L strainless steel OptiClear special Nylon blend			
Humidity: Impact Rating: Ingress Protection Rating: Temperature: Maximum Windload: Vibration: Vibration: Cente Housing Style: Dome: Mounting Style: Mounting Style: Mounting Pattern: Schraeder Valve (pressurized model):	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58%F to 140%F (-50°C to 60°C), up to 165%F (74°C) Per NEMA TS2 150mph (240kph) Conforms to NEMA TS2, para 2.1.9 ral Specifications 316L strainless steel OptiClear special Nylon blend Pendant mount			
Humidity: Impact Rating: Ingress Protection Rating: Temperature: Maximum Windload: Vibration: Vibration: Cente Housing Style: Dome: Mounting Style: Mounting Style: Mouting Pattern: Schraeder Valve	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58°F to 140°F (-50°C to 60°C), up to 165°F (74°C) Per NEMA TS2 150mph (240kph) Conforms to NEMA TS2, para 2.1.9 TAL Specifications 316L strainless steel OptiClear special Nylon blend Pendant mount Pendant: 1.5"npt			
Humidity: Impact Rating: Ingress Protection Rating: Temperature: Maximum Windload: Vibration: Cenne Housing Style: Dome: Mounting Style: Mouting Pattern: Schraeder Valve (pressurized model): Pressure Relief Valve	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4IK-10IP67 (IP68 on Pressurized models)-58% to 140% (-50°C to 60°C), up to 165% (74°C)Per NEMA TS2150mph (240kph)Conforms to NEMA TS2, para 2.1.9tral Specifications316L strainless steelOptiClear special Nylon blendPendant mountPendant: 1.5"nptNitrogen input5-7 psi16 lb (7.4 Kg)			
Humidity: Impact Rating: Ingress Protection Rating: Temperature: Maximum Windload: Vibration: Cenne Housing Style: Dome: Mounting Style: Mouting Pattern: Schraeder Valve (pressurized model): Pressure Relief Valve (pressurized model):	0-100% N.C per MIL-E-5400T, paragraphs 3.2.24.4 IK-10 IP67 (IP68 on Pressurized models) -58°F to 140°F (-50°C to 60°C), up to 165°F (74°C) Per NEMA TS2 150mph (240kph) Conforms to NEMA TS2, para 2.1.9 ral Specifications 316L strainless steel OptiClear special Nylon blend Pendant mount Pendant: 1.5"npt Nitrogen input 5-7 psi			

Regulatory and Certifications

NEMA4x







REACH

NEMA Rating







ONVIF Member

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