MOOG
VIDEOLARM

EXO™ IP Camera Systems
Rugged, Flexible, High Definition Brilliance

EXO Series Camera Systems, with high-definition (HD) network cameras, standard H.264 compression and ONVIF support, are the professional's choice for capturing brilliant, 1080p full HD video in extreme applications. The EXO Series is built tough to withstand extreme temperature ranges, power surges, heavy impacts, corrosion, and even bullets. Engineered into a multitude of rugged, environment-specific enclosures, there is an EXO Camera System solution for nearly any hostile environment.

Key Features

- HDTV 1080p models 0.095lx min. illumination
- 20x zoom, Day / Night with auto IR-cut filter, Wide Dynamic Range
- H.264 / ONVIF
- Multiple enclosure styles suited to different extreme environments
- Temperature range: -58°F to 165°F (-50°C to 74°C)
- Built-in surge protection (Ethernet & power)

PTZ Style Features

- Heavy-duty pan/tilt mechanism, including metal gearing and wide belts for long life and unmatched durability 360° continuous rotation
- Opti clear lower dome offers industry leading clarity, durability and chemical resistance
- Presets and 3 auto-tours, adjustable privacy zones

EXO
SERIES

EXO: Pressurization

The EXO Pressurized Camera System totally protects cameras and lenses from debris, chemicals and other containments; thereby reducing service calls and extending the life of the camera. Each pressurized unit includes a Schraeder valve to fill the housing with Nitrogen or another clean stable gas, and a 5-7psi pressure relief valve so that the unit cannot be over pressurized.
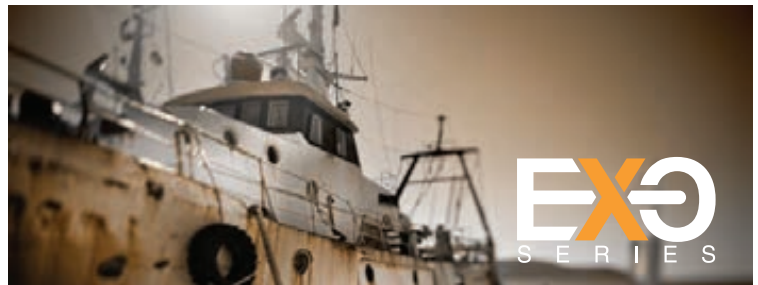
EXPF7C2-3

Pressurized outdoor HD network camera system

EXO: Anti-Corrosive

The EXO Stainless Steel (SS) Camera System is designed to protect video surveillance equipment in corrosive and harsh chemical environments; the outer housing & sunshield **(optional)** are constructed of 316 SS and a special optically clear lower dome that has outstanding chemical resistance, the ability to endure stress without cracking, and anti-scratch properties. The lower dome is clearly advanced over both acrylic and polycarbonate domes.   The EXO Stainless Steel Camera System is the ideal solution for marine, medical, pharmaceutical, oil/gas processing plants, food processing, transportation and other harsh environments.

EXSS7C2-3

Stainless Steel outdoor HD network camera system

EXO: Bullet Resistant

The EXO Bullet-Resistant Camera System provides an unparalleled level of protection in hostile environments. Exceeding UL Standard 752 – Level 1 protection, the enclosure is constructed of heavy-gauge stainless steel and incorporates a unique "turret" system, which enables the dome to absorb the shock of attacking bullets (up to 9mm). This absorption effect protects the camera from hostile vibrations. This unit is ideal for volatile, high-crime areas.

EXBD10C1-3

Bullet resistant outdoor HD network camera system

EXO Impact Resistant

Ideal for applications needing extra protection from vandalistic attacks, the EXO Impact-Resistant Camera System is built to withstand violent impacts. Constructed of cast aluminum with an OptiClear polycarbonate dome this unit is ideal in urban areas, prisons and other areas where there is a high probability of attacks on surveillance equipment.

EXRH7C2-3
Vandal resistant wall / pendant outdoor HD network camera system

EXO: Surface Mount

Ideal for applications needing extra protection from vandalistic attacks, the EXO Surface Mount Camera System is built to withstand violent impacts while being mounted flush against most surfaces. Constructed of cast aluminum with a OptiClear polycarbonate dome this unit is ideal in urban areas, prisons and other areas where there is a high probability of attacks on surveillance equipment.

EXSM7C2-3
Vandal resistant surface mount outdoor HD network camera system

EXO: Explosion Proof

The EXO Explosion-Proof Camera System is a highly effective solution for monitoring activity in hazardous, explosive environments. Operating on a supply of compressed air or inert gas, the system regulates the pressure within the sealed camera enclosure thereby protecting it from extremely hazardous fumes or gases, which could ignite a violent explosion. UL approved for hazardous locations (Class 1/Division 2, Class 2/Division 2). Certified to UL NFPA 496 purged and pressurized enclosures for electrical equipment, and to UL NFPA 60950-1 for information technology equipment.

EXPD7C1-3
Purge explosive environments outdoor HD network camera system

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SPECIFICATIONS:

Camera Specifications (For ALL products)		Pan/Tilt Specifications	
Imager:	1/2.8 progressive scan CMOS, 3.27 Megapixels	Construction Bearings:	Precision ball bearings, permanently lubricated bushings
Lens:	20x Optical zoom, f=4.7 - 94 mm, F1.6 - 3.5 autofocus, auto D / N, horizontal angle of view: 55.4° - 2.9° (1080p)	Construction Motors:	Stepper motors
Minimum Illumination:	B / W: 0.09 lx, F1.6	Drive:	Belt-driven, ¼-inch wide
Image Settings:	Wide dynamic range (WDR), manual shutter time, compression, color, brightness, sharpness, white balance, exposure control,backlight compensation	Panning:	360°- Continuous
Network Specifications (For ALL products)		Panning Speed:	120°/sec, 0.5°-80°/sec manual operation
Video Compression:	H.264, MPEG-4, M-JPEG	Preset Accuracy:	+/-.05 degree
Resolutions:	HDTV 1080p 1920 x 1080 to 320 x 180	Tilting Angle:	2° to -90°
Video Output:	H.264: Up to 30 / 25 fps (60 / 50 Hz)	Tilting Speed:	120°/sec, 0.5°-80°/sec manual operation
Video Streaming :	Multiple		
Local Storage:	SD / SDHC memory card slot (Card is not included)		
Alarm Triggers:	Video motion detection, PTZ preset, temperature, Alarm input		
Alarm Events:	File upload via FTP, Notification via email, local storage, Pre- and post-alarm video buffering		

General Specifications	EXPF7C2-3	EXSS7C2-3	EXBD10C1-3	EXRH7C2-3	EXSM7C2-3	EXPD7C1-3*
Housing Style:	Pressurized	Stainless Steel (Anti-Corrosive)	Bullet Resistant	Impact Resistant	Surface Mount Impact Resistant	Purge Explosive Environments
Mounting Style:	Wall or Pole	Pendant (optional wall mount)	Wall	Wall or Pendant	Wall or Surface	Wall
Electrical Specifications						
Alarm Inputs / Output:	2 / 2					
Input Voltage:	24Vac		120Vac	24Vac		120 / 220Vac
Power Consumption:	80 watts (va)		90 watts (va)	80 watts (va)		Pressure and Purge System 12Vac 15A
Mechanical Specifications						
Construction Top:	Engineered Plastic	316 Stainless Steel	Stainless Steel	Cast Aluminum		Engineered Plastic
Construction Sunshield:	Aluminum	316 Stainless Steel	N / A	Aluminum	N / A	
Mounting Pattern Wall (w*h, Bolt size):	2" x 5.5", 3/8"				7.25" x 7.25", 5/16	2" x 5.5", 3/8"
Pendant Mount Treads:	1 ½" NPT		N / A	1 ½" NPT	N / A	
Pressure Relief Valve / Schraeder Valve:	5-7 psi / Nitrogen input	N / A				
Trim Ring:	Engineered Plastic	316 Stainless Steel		Cast Aluminum		Engineered Plastic
Dome Construction:	OptiClear Polycarbonate	Special Blend Nylon	Acrylic	OptiClear Polycarbonate		
Environmental Specifications	* Purging control box (-30°C to 50°C)					
Blower / Heater:	Yes / Yes					
Heater activates / deactivates at:	60°F (15.5°C) / 80°F (27°C)					
IP Rating (Weather Rating):	IP67		IP66			IP67
Maximum Windload:	150 mph (240 kph)					
Operating Temperature:	-58°F to 165°F (-50°C to 74°C)					
Impact / Bullet Resistant Rating:	IK 10		Meets UL 752, Level 1	IK 10		N / A
Vibration:	Conforms to NEMA TS2, para 2.1.9	N / A		Conforms to NEMA TS2, para 2.1.9		N / A
Regulatory	CE, UL, NEMA 4x, RoHS, WEEE	CE, UL, RoHS, WEEE, NEMA 4x	RoHS WEEE	CE, UL, WEEE RoHS, NEMA 4x	CE, UL, RoHS, WEEE, NEMA 4x	UL, WEEE NEMA 4x